



KABELWERK EUPEN : Specialist for NPP Applications

KABELWERK EUPEN / BELGIUM

specialised in

**Cables for Nuclear Power Plants,
1E / K1 qualified (LOCA)**

For use inside hermetic zone

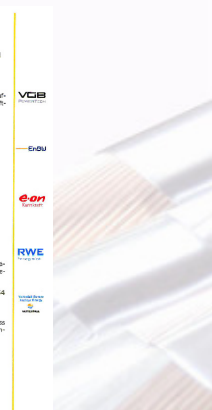
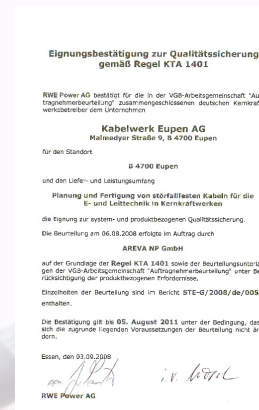
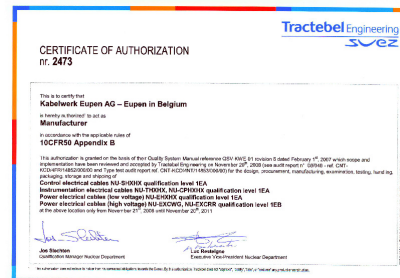


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- Since 1980, KABELWERK EUPEN supplied all qualified cables for the Belgian NPP's DOEL and TIHANGE / Tractebel
- Other references : CNEC, TEMELIN, PAKS, RINGHALS, DUKOVANI, TIANWAN, BEZNAU, BUSHER, GÖSGEN, TWICE ...
- Strong collaboration with AREVA, WESTINGHOUSE, ASE ...



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KABELWERK EUPEN has its own premises and laboratories for :

- Material Development

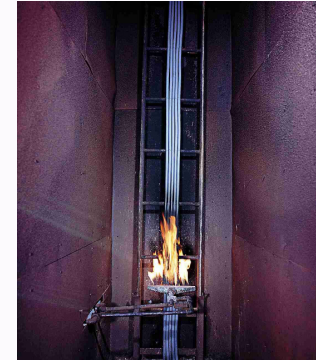


- Cable design

- Thermal ageing



- Fire test



- LOCA-test





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Type Test Plan and Qualification Report TTLA 40

- Non metallic material qualification (Insulation, Sheathings)
 - acc. Industrial standard IEC 60502-1
- Electrical qualification :
 - LV cables acc. IEC 60502-1
 - Instrumentation cables acc. EN 502887
- Fire performances, Smoke density, Halogen-free :
 - acc. different IEC and NF standards
- Thermal ageing
 - acc. Arrhenius law



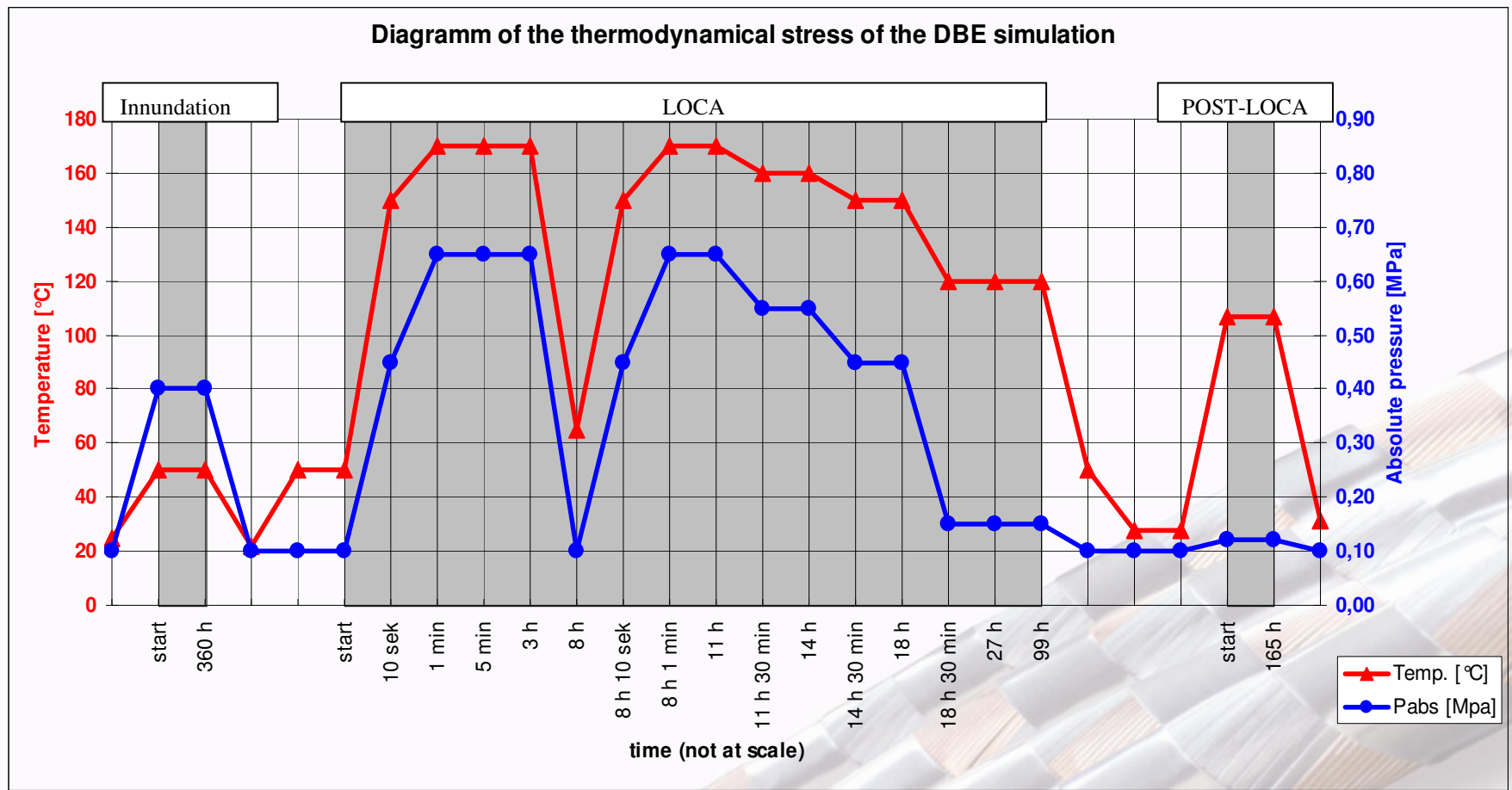
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Type Test Plan and Qualification Report TTLA 40 (continued)

- 1E / K1 DBE Qualification
 - Thermal / radiating ageing
 - Accident radiating ageing
 - Innundation test
 - LOCA simulation
 - Post-LOCA simulation



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Features of KABELWERK EUPEN's NPP-Products :

- Designed and tested acc. International standards
- High life time of 60 years @ 90 °C thermal ageing
- High fire performances
- Halogen-free and low smoke emission
- DBE qualified for 60 years @ 80 °C
- Strong test plan during manufacturing reported in the „construction file“ (per production order)



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Production range of KABELWERK EUPEN for NPP Application :

- 1E / K1 qualified LV Power and Control cables 0,6/1 kV
- 1E / K1 qualified Instrumentation cables 500 V
- Non LOCA (K3) LV Power and Control cables 0,6/1 kV
- Non LOCA (K3) Instrumentation cables 500 V



See : www.eupen.com/cable/nuclear/index.html



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KABELWERK EUPEN,
your reliable partner for cables
in Nuclear Power Plants

Thank you