

## Safety Issues

- Computerised Systems are used in Nuclear Installations
- Most are not of Safety Significance
- Safety systems are most likely not date dependant
- Probability of the event = 1
- Common cause of failure at the same time

What about the safety case hypotheses?



## Safety Issues

- Diversity of computerised systems still holds
- Loss of off-site power situations
- Communication
- Crisis management

Analysis should cover more than safety systems



# **IPSN Analysis Targets**

Licensee is responsible for Y2K readiness demonstration

#### All nuclear installations

- Power stations
- Research reactors
- Fuel cycle (production, transport, reprocessing)
- Wastes repositories
- Industrial irradiators
- Military facilities

• ...



# IPSN approach (1/3)

- Analysis by multi-compentency team
  - site assessors
  - I&C
  - human factor
  - operation and accident management
- Definition of Licensee analysis contents



## IPSN approach (2/3)

Licensee analysis content

Specific organisation for Y2K problems analysis and resolution



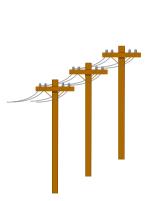
- Installation sensitivity
  - equipment
  - consequences of potential failures



# IPSN approach (3/3)

Licensee analysis content

- External Resources needed for short term and long term (Grid, Fluids, Teams, ...)
- Organisation for Y2K conversion tests
- Contingency plans allowing for defence in depth
- Other dates (9/9/99, 29/2/00)







## **IPSN** strategy

- Consultation with Licensee and Follow up
- Examination of the documents
- Audits and inspections
- Experience feedback from other industries
- IPSN experience conducted on Y2K conversion
- International follow-up through

OECD, IAEA, EC, ...

1&C 4 parties group

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#### French NPPs

• 1 licensee : Electricité de France

• 58 PWRs

900 MWe : 34 units

■ 1300 MWe: 20 units

■ 1400 MWe : 4 units

• 78 % of Total



## Overall Approach for French NPPs



Y2K Project team

Planning follow up

**Audits** 

**Analyses** 

**Support to inspections** 

#### **EDF Methodology**

