



CEMSIS

November 13th, 2003

Yokogawa System Center Europe



By:
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Our Organization



Founded in 1915

Over 80 years of dedication to the industry

Revenue

Global consolidate revenue over US\$ 2,300 million

Tokyo, Japan

Corporate Headquarters

Commitment

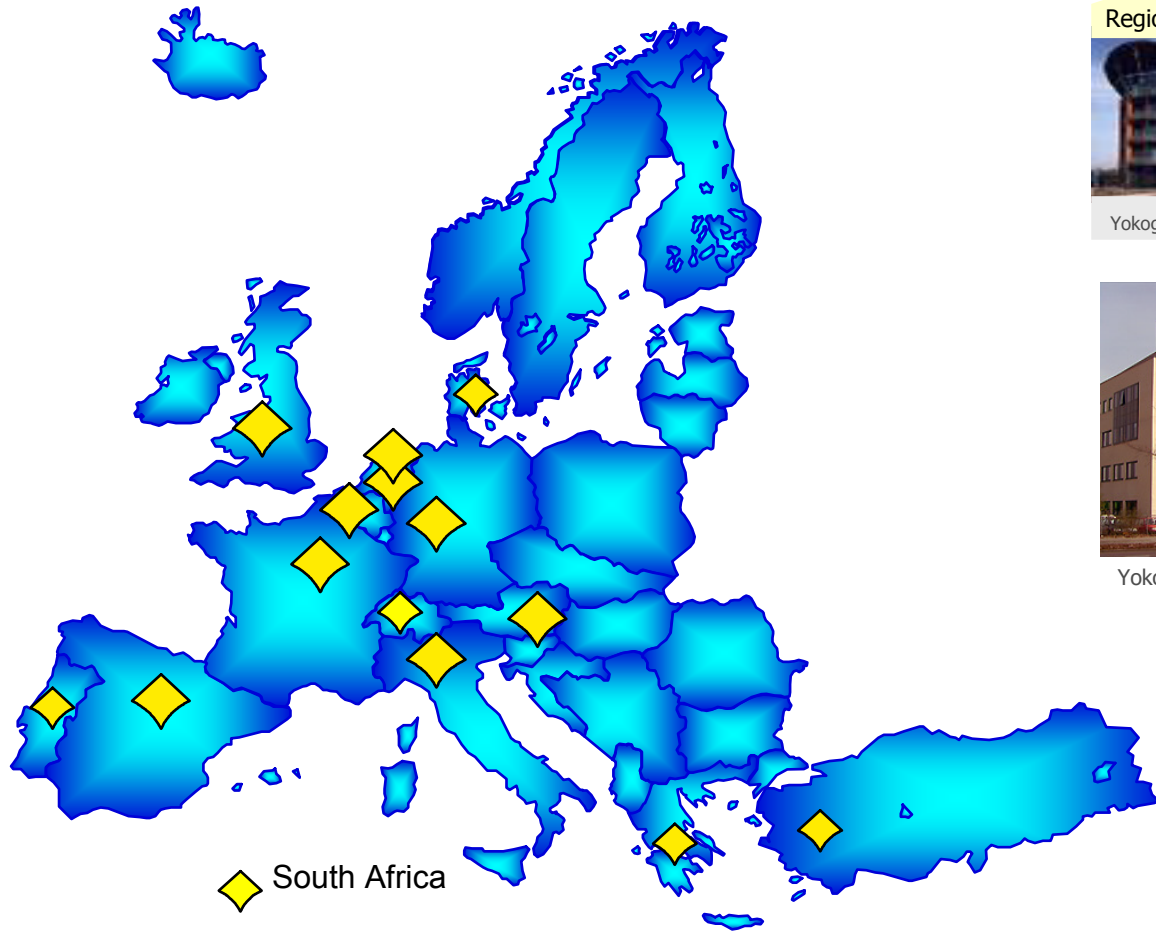
Committed to local partnership; over 3,000 automation engineers in 29 countries.

Global Leadership

Leading in process automation and one of the founding members of the Fieldbus Foundation

Affiliations

70 affiliated companies outside Japan including 16 factories



Regional HQ Europe, Netherlands



Yokogawa Europe B.V.



Yokogawa SCE

Total: more then 1200 employes

- EJA pressure transmitter
- Safety and alarming systems
- General studies

- ⇒ EJA pressure transmitter
 - Independent safety report (IEC61508 based) available
 - Accepted by BNFL for use in Safety Instrumented Systems. (January 2003)



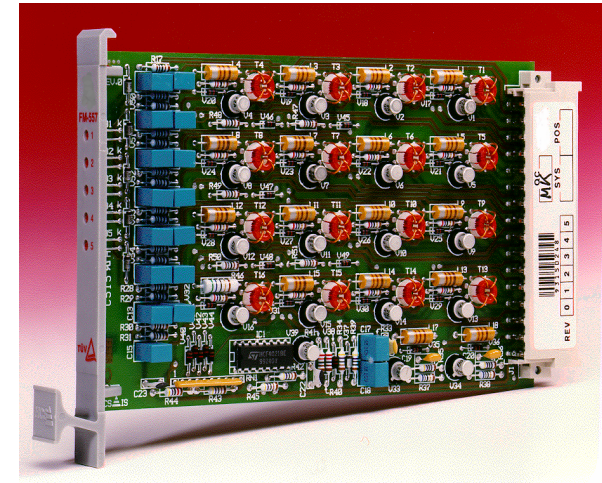
According BNFL procedure, based on agreement with NII.

Acceptable for B.E.?, E.D.F.??

Safety systems

- ❖ Solid state logic
 - inherent fail safe
 - no software

Alarm system for British Energy



Are third party certificates
(TuV, DNV, FM) acceptable ??

- ❖ Prosafe-PLC assessment for British Energy
 - Based on “Guidelines for Using Programmable Electronic Systems Nuclear Safety and Nuclear Safety-Related Applications”
Nuclear Electric (1998)

- ❖ Software Reliability study on detected failures in the software lifecycle for Adelard (U.K.)

Conclusions

- To achieve cost effective solutions we need:
- Clear procedures
- Accepted by all European parties
- Based on proven solutions

Thank you

