



Elettra Sincrotrone Trieste

D1, Q8 and C8 RAMI analysis

- ✓ Design, construction and testing stages shall guarantee a period of operations of at least 20 years.
- ✓ Action to be performed during each shutdown
 - Visual inspection
 - Check of the status and efficiency of the thermal switches
 - Check of the status of the electrical connections
 - Check of the status of the flexible hoses and hydraulic connectors
- ✓ Possible faults
 - Early faults related to defective thermal switches
 - Faults related to the aging of the flexible hoses (mitigated by routine replacement every 10 – 15 years, according to inspections).

- ✓ A suggested list of components to keep ready in case of intervention will be provided with the magnets delivery.
- ✓ Suggested spare parts.
 - Excitation coils
 - Thermal switches
 - Electro-technical components (connection blocks in particular)
 - Flexible hoses

- ✓ The magnets are easily inspectable and maintainable
 - The magnets are easily accessible (inspectability)
 - Most of the components are visible (inspectability)
 - The magnets can be easily opened (maintenability in general)

Thank you