Interaction of TIS and ST in Environmental Matters

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TIS – Integrated Safety and Environment (IE)

Role of ST Concerning the Environment

- Ventilation (pollution vector)
- Drainage (idem)
- Activities with pollution hazards
- Installations with pollution hazards
- Industrial waste management
- Power supply management
- Water supply management
- Many Others

Role of TIS Concerning the Environment

- Monitoring of polluting discharges of liquids & gases
- Pollution prevention
- Contacts with Host States Authorities
- Monitoring of radioactive releases
- Continuous measurements of radiation levels on & around CERN sites
- **Development of Environmental Management System**

Interaction ST–TIS: Present Status

1) Solving of emergency situations
   - 2002: 19 environmental events (11 CE)
2) Projects
   1) RAMSES
   2) *Eaux de rejet*
3) Prevention & Planning
   - Radioactivity measuring campaign in SPS water pits

Nomination of ST Divisional Environmental Officer

Interaction ST–TIS: Possible Future

- CEPC asked TIS to elaborate an **Environmental Management System** (EMS)
- QA in environmental management: ISO 14'000
- Not for managing an environmental department but managing the whole Organization
- $\Rightarrow$ Affects everybody whose activities have environmental aspects

EMS Elements

1) Environmental Policy
2) Planning
3) Implementation & Operation
4) Checking & Corrective Action
5) Audit

EMS: Planning

- Identification of environmental aspects & impacts
  - Procedure for assessment of new projects… (form, report)
  - Regular review of Divisional Safety Plans
  - Non-conformities revealed during environmental monitoring
  - EMS audit
- Legal frame
- Environmental programmes
  - Projects (e.g. restructuring of the SPS cooling system)
  - ST: Resources, engineering know-how
  - TIS: Advice, environmental know-how

EMS: Implementation & Operation

- Structure & responsibility
- Operational procedures for environmentally sensitive activities
  - Many of them already exist, just organize them into a system
- Emergency plans
- Document Control
  - EDMS + EMS Web interface: an ideal system
- Training

Checking & Corrective Action

- TIS: Controlling role defined in SAPOCO 42
- TIS: Contacts with Host States Authorities
- ST (as any other Division): Own monitoring possible

- Polluter-pays-principle
- No financial and human resources in TIS for solving pollution cases
- **But TIS is ready to provide advice**

Conclusions

- Interaction ST–TIS vivid
- TIS does not communicate more with any other Division
- ST Divisional Environmental Officer
- Always space for improvement:
  - Strengthen the TIS engagement in planning & prevention
  - EMS – a tool
  - EMS – a pilot project for an

Integrated Management System "Safety–Environment"