NEW n-TOF HOIST

N-TOF External Panel Review

CERN, 15.06.2007

Ingo Rühl / TS-IC-HM

Prehistory 1/2

- Existing installation
  - HHLPA-0871, DONATI, 1987 (LEP), 6.5t (5t)

The existing installation does not converge with the standard practice and norms (KTA 3902[1], EN 60204–1, EN 60204– 32) for the handling of radioactive material for which security and operation measures must be taken to eliminate or diminish the risk

[1] The KTA 3902 ‘Design of Lifting Equipment in Nuclear Power Plants’ (http://www.kta-gs.de/e/standards/3900/3902-e.pdf) is the most comprehensive document in this respect.

Prehistory 2/2

- 2000 - Design study (COMETE - 5’000 €)
  - Environmental/space constraints
  - Redundant lifting cinematic (2 electrical motors, electrical cubicle and control debarked etc.)
  - No changes on the lateral movement system
- 2001 – Price offer (COMETE – 110’000 €)
  - 6 months delay between placing the order and commissioning
- 2006 – Revision price offer (COMETE – 200’000 €)
  - 6 months delay between placing the order and commissioning

Present situation

- Lifting of n-TOF target feasible (not glued or deformed, test done 21.05.2007, radiation level lower than expected).
- No more objections by the TS department to proceed with the proposed maneuver to displace the target into the safer intermediate storage shaft (next to the main shaft).
- Coordination meeting proposed as soon as possible.

Future aspects

- Provided that the new n-TOF experiment is approved TS-IC proposes to launch a price enquiry for a new hoist that takes in consideration the requirements of the new n-TOF target (weight, expected radiation levels etc.)
  - Delay about 10-12 months between the approval of the Divisional Request and the commissioning