

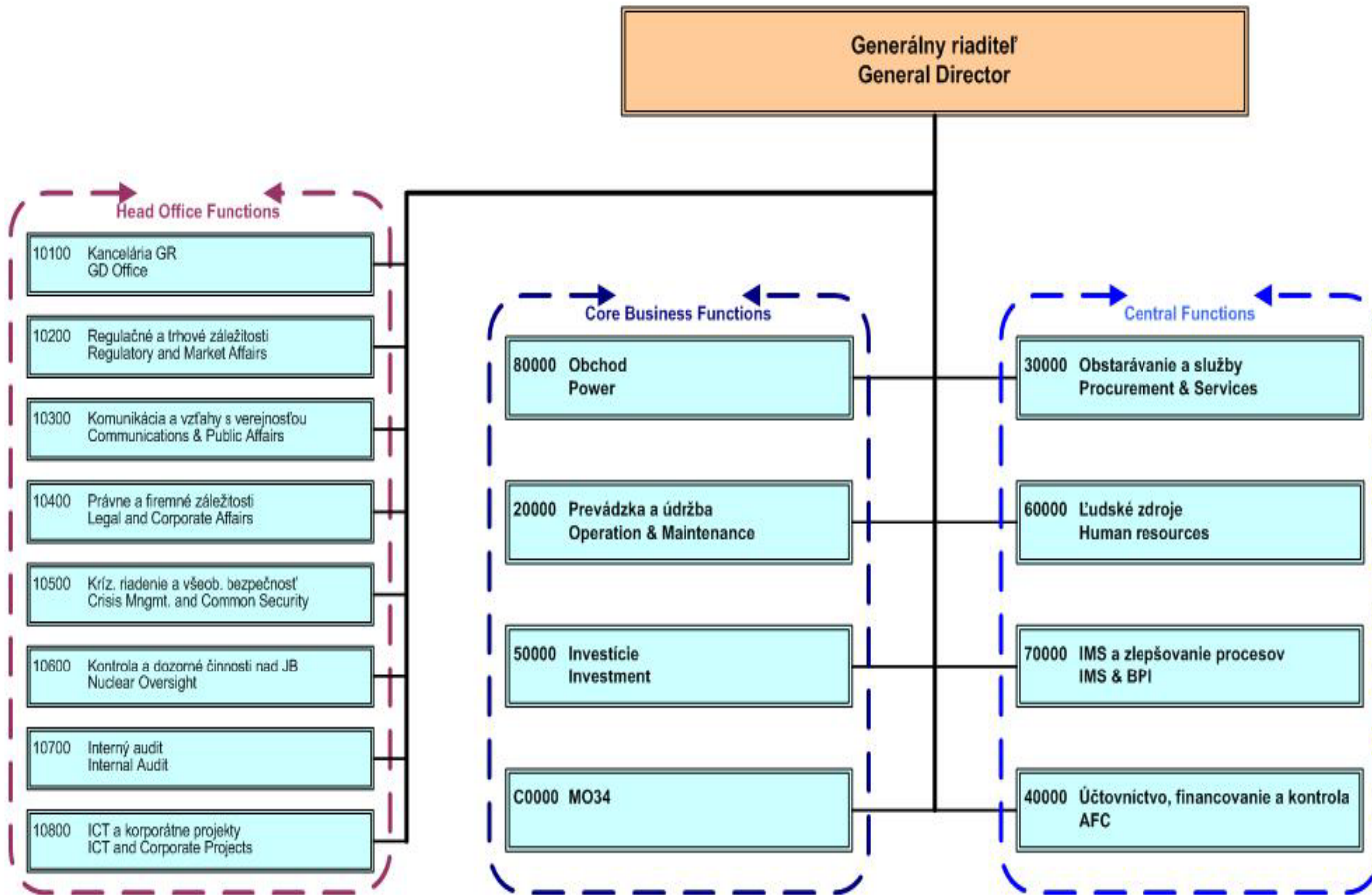


# Preparation of two NPP units in Mochovce for completion

**Richard Hascik**

**Slovenske Elekrarne – ENEL Inc.**

# Slovenske Elektarne (SE) organization scheme



# Mochovce NPP Introduction



Site 4 Units

VVER – 440 / V – 213

2 Units in operation since 2000

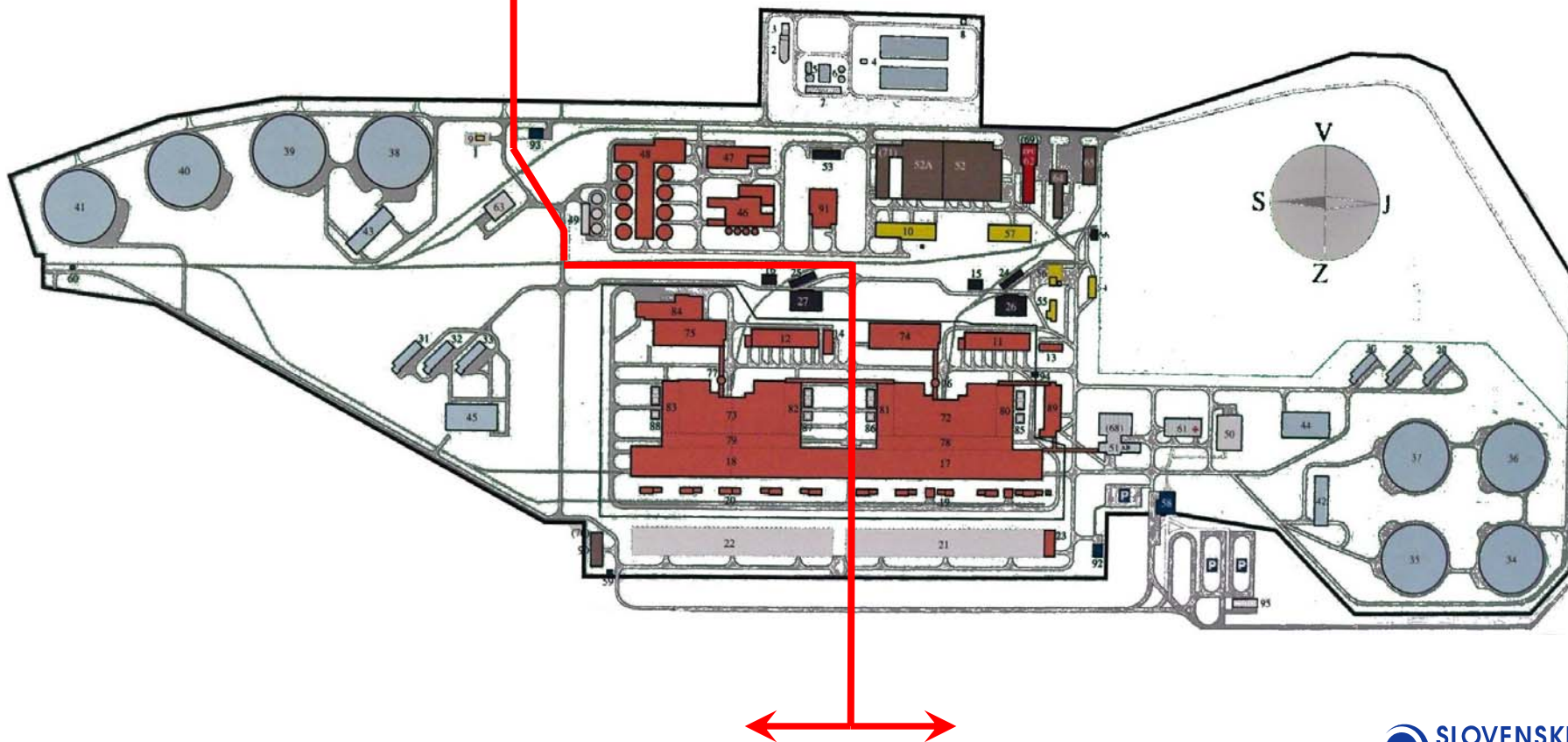
2 Units postponed construction



# Mochovce NPP layout

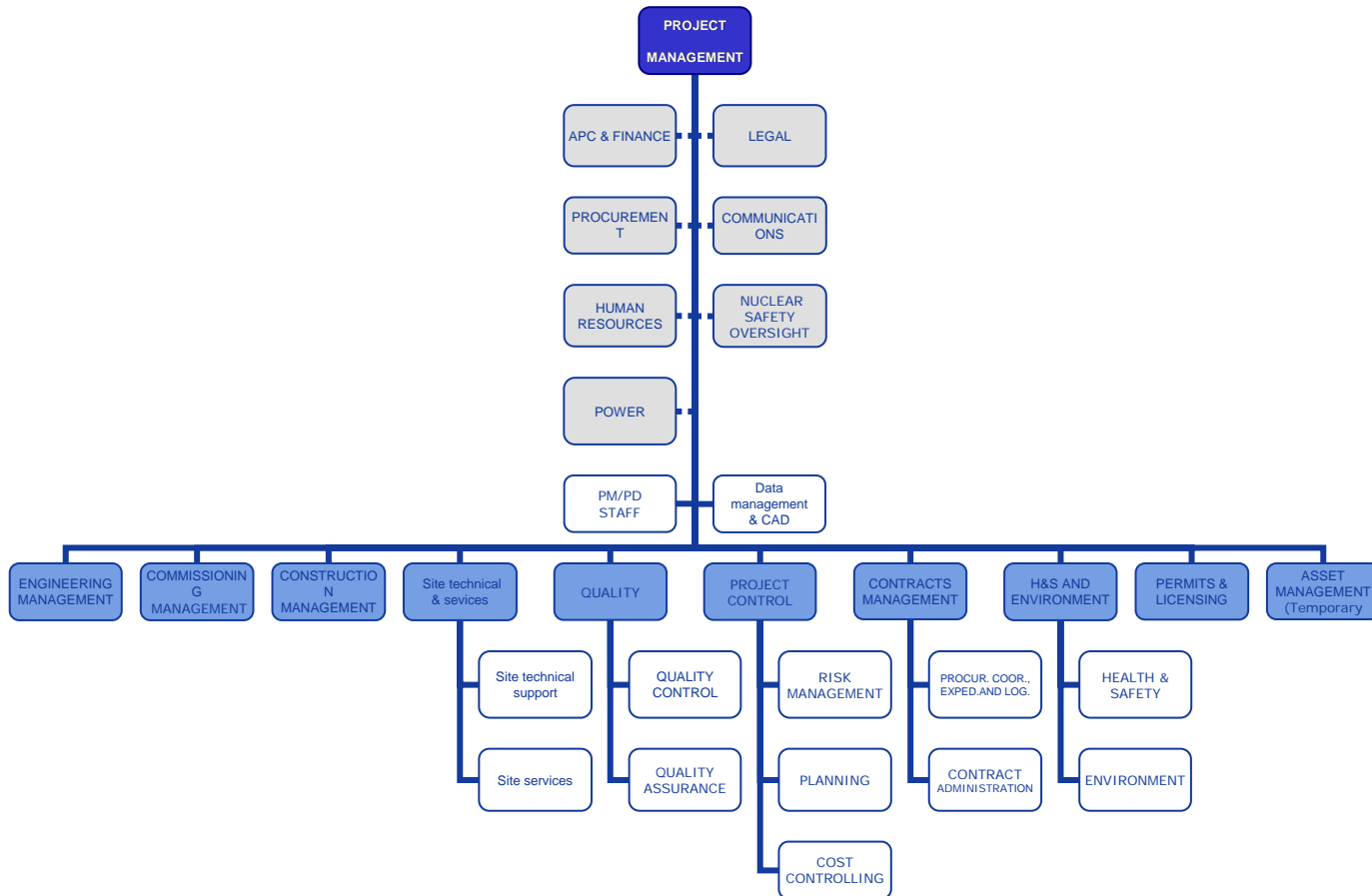
Unit 3&4

Unit 1&2 + Common Services



# Mochovce 3 & 4 Units (MO34)

## Plant organization scheme



# Feasibility study

- Purpose of the Feasibility Study was to define in detail all technical, economic, financial, legal and authorization aspects of MO34 completion in order to provide SE and Enel Top Management with all the necessary information for a final decision on MO34
- Feasibility study has started in January 2006. SE had the commitment to complete the Feasibility Study within 12 months from Closing of SE acquisition (April 2007)
- In order not to delay completion of MO34, SE has decided to perform, in parallel to the Feasibility study, also all design and permitting activities which are required for the completion of Plant.
- **SE was able to announce the positive decision about completion on MO34, two months in advance of the deadline.**

# Safety Improvements

- ◆ Reference source for the improvements:
  - IAEA's "*Safety Issues and Their Ranking for WWER 440 Model 213 Nuclear Power Plants*" (1996);
  - feedback from EMO12 and EBO34's operational experience
  - WENRA Reference Levels
- ◆ Among the many improvements considered:
  - design measures for the mitigation of Severe Accidents;
  - new state-of-the-art I&C;
  - specific solutions for the reduction of internal hazards (fire fighting, internal flooding, etc.);
  - improved design of safety systems and safety-related equipment for higher reliability (e.g., SGs) and better separation (e.g., EFWS) (feedback from EMO12);

# Future activities

- Short term activities
  - MO34 completion work restart
  - BD update
- Mid term activities
  - Contact for Nuclear Island
  - Contract for Conventional Island
  - Contract for I&C
- Long term activities
  - To met COD 30/09/2012 for 3<sup>rd</sup> Unit