EPR COMMISSIONING

MDEP 3rd conference
Session 2: commissioning activities

Bethesda 2014, May 14th and 15th
EPR COMMISSIONING

1. OPERATIONAL COMMISSIONING COORDINATION BETWEEN EPR PROJECTS

2. SYNERGY AND CONVERGENCE WITH SAFETY AUTHORITIES

3. EPR FAMILY EXPECTATIONS TOWARDS MDEP
OPERATIONAL COMMISSIONING COORDINATION BETWEEN EPR PROJECTS

- **EDF engaged in several EPR projects**: FA3, TSN, HPC

- **EDF leads the EPR Owner’s Group: the EPR Family**
  - EDF SA, EDF Energy NNB, TNPJVC, TVO
    with privileged interaction with AREVA

- **EPR family develops synergies and series effects between EPR projects**
  - Sharing safety and licensing issues and lessons learned
  - Sharing construction experience and best practices with a real experience feedback to the projects
  - Preparing for commissioning and operation
OPERATIONAL COMMISSIONING COORDINATION BETWEEN EPR PROJECTS

- EPR commissioning has started and is growing in parallel on the 3 sites with close exchanges and mutual support between the projects:
  - FA3: Circuits tests in progress, Nuclear Circuits Cleanliness scheduled in May 2015
  - TSN1: NCC done, Cold Functional Tests scheduled next October
  - OL3: Containment Tightness Test done last February

- Under the EPR Family supervision, effective interactions between the commissioning teams are settled through an active network, joint teams and cooperative agreements:
  - Organization, schedule and resources
  - Sharing commissioning risk analysis, tests results, difficulties encountered
  - Addressing specific commissioning issues
  - Allowing cross-seconding engineers
  - Developing adequate responses and solutions

- Interacting with the MDEP commissioning EPRWG
  Shenzhen (China) in May 2013, Paris (France) in November 2013
SYNERGY AND CONVERGENCE WITH SAFETY AUTHORITIES

- The commissioning program developed in line with EPR family requirements strongly rely on EDF and CGN fleets commissioning experience feedback. FA3 & TSN commissioning experience feedback will naturally be used for next EPR projects.

- Convergence of view exists on FA3 & TSN projects between TNPJVC, EDF and the Chinese and French authorities.

  ➔ MDEP should build his own approach to enhance synergy and convergence of view on commissioning topics.
EPR FAMILY EXPECTATIONS TOWARDS MDEP

- **Stable regulators requirements framework needed**
  - ASN requirements link to commissioning activities up to fuel loading notified to EDF give a guarantee of stability on FA3 project risks analysis and on FA3 commissioning program
  - A common MDEP members position is expected, this would facilitate EPR sites mutual commissioning preparation

- **EPR family promotes the use of First Plant Only Tests results of the EPR 1st-unit to all other EPR units**
  - EDF & EPR family invite MDEP to adopt this principle
THANK YOU FOR YOUR ATTENTION!