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***Human Resources Development for Jordan's Nuclear
Energy Programme***

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Jordan's Nuclear Energy Programme

- **Year 2007:** Jordan officially announced its intention to introduce nuclear power as part of its energy mix
 - The Nuclear Law was modified to allow the creation of two independent commissions:
 - Jordan Atomic Energy Commission (JAEC)
 - Jordan Nuclear Regulatory Commission (JNRC)
- **Year 2013:** Jordan Subcritical Assembly (JSA) was Commissioned
- **Year 2016:** Operation of Jordan Research and Training Reactor (JRTR)
- **Year 2017:** Start the construction of Jordan's first Nuclear Power plant
- **Year 2023:** Operation of Jordan's Nuclear Power Plant



Jordan's HRD Strategy

- Utilize Jordan's academic infrastructure
 - 25 Universities (10 public & 15 private)
 - 35 Community Colleges (15 public & 20 private)
 - Build on existing programmes and establish new ones to support Nuclear Energy Programme.
- Nuclear Education in Jordan
 - B. Sc. Nuclear Engineering at Jordan University of Science & Technology (JUST)
 - M. Sc. Nuclear Physics at University of Jordan, Yarmouk University and Al-Balqa Applied University
- Scholarships for M. Sc. and Ph. D in Nuclear Engineering and Nuclear Science from Universities outside Jordan
 - United States, Russia, France, Japan, China, Korea

Jordan's HRD Strategy/2

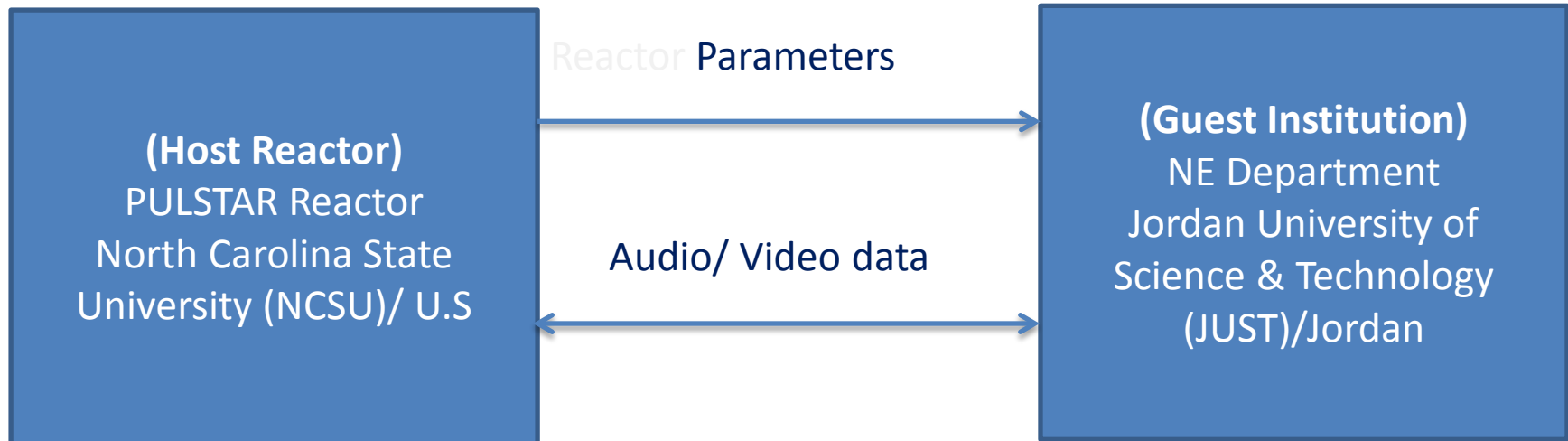
- Utilization of JSA and JRTR
- Vendor supplied training
- Support through Nuclear Cooperation Agreements
- IAEA Technical Cooperation
- Development of a Jordan-Specific Qualification and Certification Programmes
- Specialized Training in International Codes & Standards
 - Transition to JNRC Developed/Adopted Standards, Codes, Regulations

JUST: Nuclear Engineering Programme

- B. Sc. Programme started in 2007
- Graduates: 75
- Students: > 100
- Faculty Members: 6 (+ 3 to join in Fall 2014)
- Facilities:
 - High Performance Computing lab.
 - Radiation Detection and Measurement Labs.
 - Internet Reactor Lab. (IRL)
- Jordan Subcritical Assembly (JSA)
- Jordan Research and Training Reactor (JRTR)



Internet Reactor Lab. (IRL)



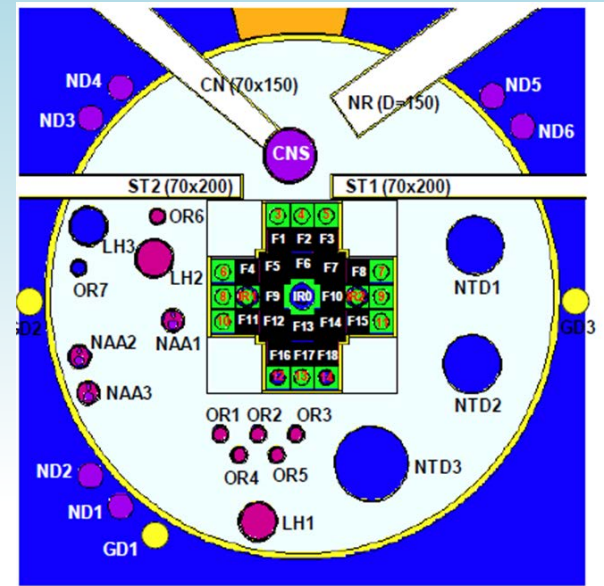
Jordan Subcritical Assembly (JSA)

- Jordan's first Nuclear facility.
- Designed and constructed for the purpose of education, training, and experimental research.
- Inherently safe
- Hands on experience for students and trainees
- Commissioned in June 2013



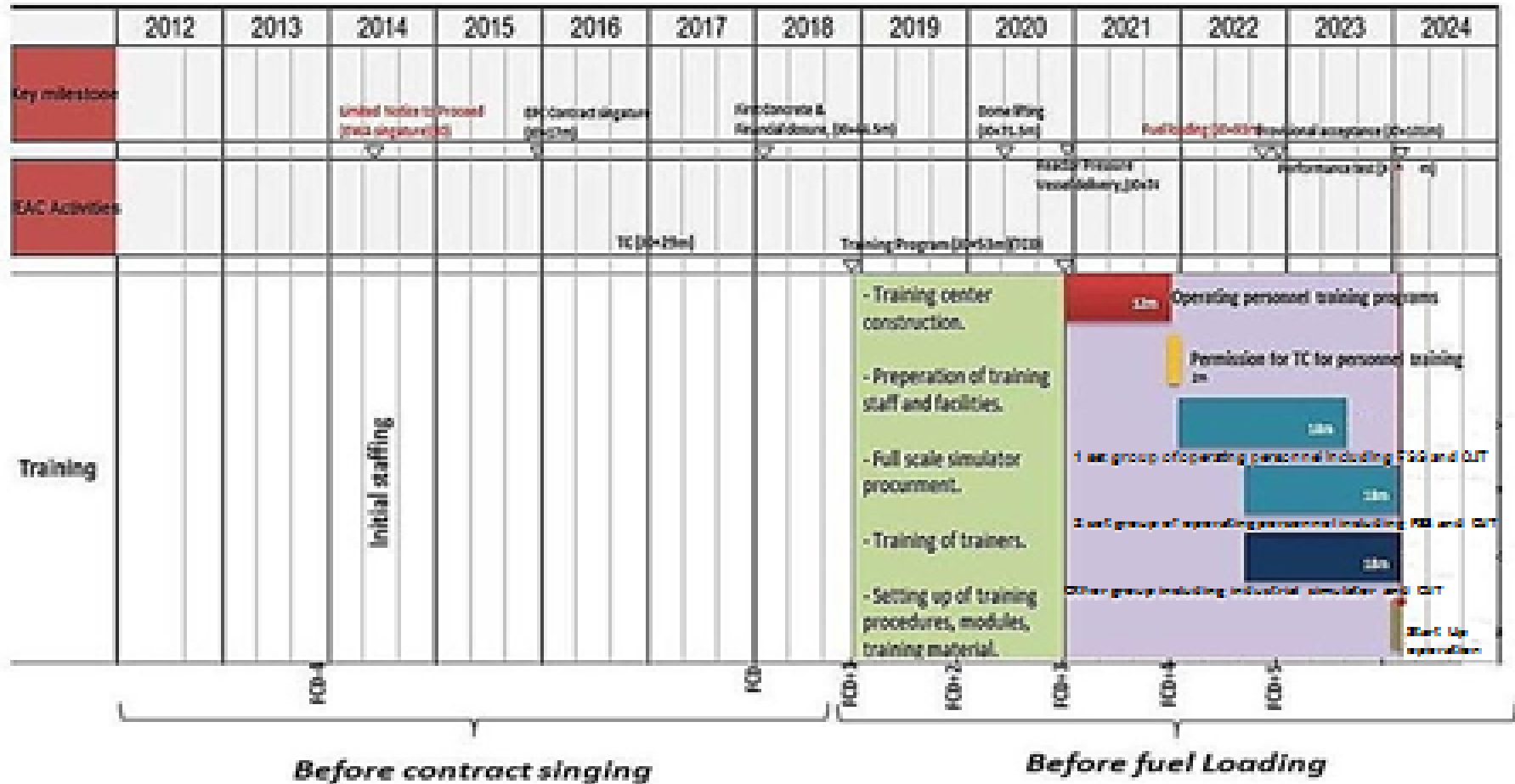
Jordan Research and Training Reactor

- Multipurpose open pool type research reactor
- 5MW upgradable to 10 MW
- Plays the primary role in educating and training the upcoming generations of nuclear engineers and scientists
- Planned to be commissioned in mid 2016.



Training Plans for Jordan's Nuclear Power Plant

NPP Training Chart Schedule



FCD ≡ First — Date ———

Thank you...

Questions???