ATOMEXPO 2012





PRACTICAL TRAINING OF NPP OPERATIONAL PERSONNEL

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MAIN FEATURES OF PERSONNEL TRAINING FOR NPP UNDER CONSTRUCTION



- It is a big project.
- It is have a hard time schedule.
- Training scope is much more than for NPP under operating and needs more resources.
- Project in addition to training has a hard binding to creation of NPP training facilities.
- Project hardly depend from the national recruitment market and NPP personnel recruiting results.

ADDITIONAL LIMITS FOR FIRST UNIT



AT THE START STAGE:

- There are no condition for realization traditional OJT and backup,
- There is no completed design, operational and training documentation which adequate to the operated unit.
- ➤ Buildings and equipment are under construction and there is no observed operation,
- There are no fully adequate training facilities for constructed unit.

ADDITIONAL LIMITS FOR FIRST UNIT



TIME LIMITS:

- NPP personnel training mostly should be finished to the unit commissioning and fully to the start-up.
- NPP personnel training should be synchronized with the related works (documentation developing, unit and training facilities constructing and etc).
- Training programs should be adequate to regulations requirements for duration and completeness.

PRACTICAL TRAINIG FOR NPP UNDER CONSTRUCTION INCLUDE TWO STAGES:

TRAINING AT THE REFERENT NPP WITH VVER-1000 IN RUSSIA



TRAINING AT THE SITE OF NPP UNDER CONSTRUCTION



Main objective is to obtain by trainee needed knowledge and skills under existing restrictions.

TRAINING AT THE REFERENT NPP WITH VVER-1000 IN RUSSIA



MAIN OBJECTIVE:

Trainee should obtain knowledge and skills for related job position at really operated unit, which has the same or close design and operational decisions like the unit under construction.

INCLUDE:

- Classroom and practical training within the frame of training program for related job position, including all needed pedagogical forms and methods and training facilities (simulators, workshops and etc) of a referent unit.
- OJT at the related job position at the referent unit.

TRAINING AT SITE OF NPP UNDER CONSTRUCTION



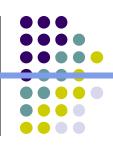
MAIN OBJECTIVE:

Trainee should obtain knowledge related to differences between referent and constructed units for related job areas and skills of unit at the last stage of its construction.

INCLUDE:

- Special classroom training on differences between referent and constructed units for related job areas.
- OJT at the site of equipment manufacturer.
- Practical training for operational personnel at the full scope simulator specific for constructed NPP.

GRADUATE APROACH



MAIN OBJECTIVE:

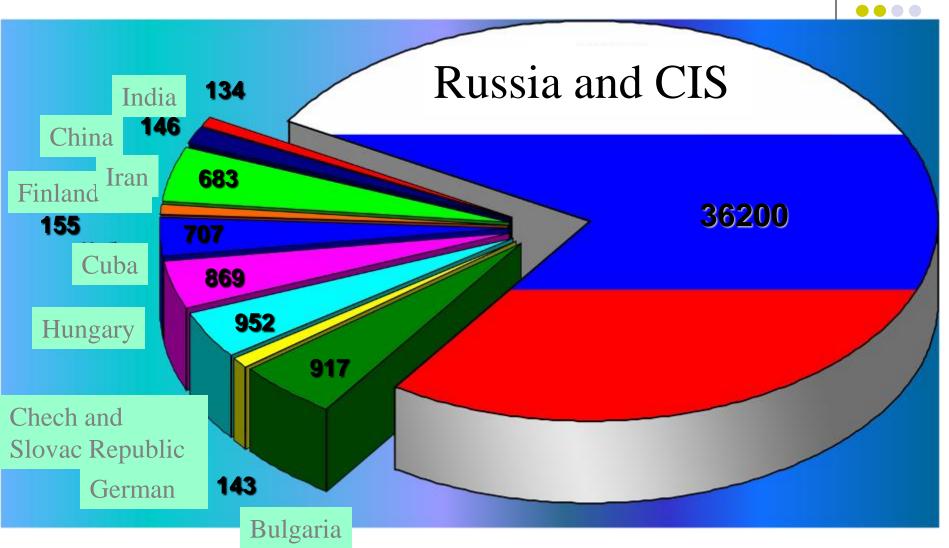
To assure needed effectiveness and flexibility in recruiting and training of key NPP personnel under existing restrictions.

INCLUDE:

- operational personnel divided in categories;
- each category staffed with reserve for all predictable combination of causes of personnel losses;
- for each category is developed a specific scheme of recruitment and training.

Number of NPP specialists trained at NVTC since 1972







СПАСИБО!

THANK YOU!