ENHANCED CAPABILITIES OF SAFEGUARDS ANALYTICAL SERVICES

ENSURING INDEPENDENT VERIFICATION CAPACITIES

**HIGHER ACCURACY**
No. of particles analysed per sample increased (LG-SIMS)

2012: 20
2015: 200

**MORE ANALYSIS**
Samples per year increased (LG-SIMS)

2012: 60
2015: 100

**HIGHER SENSITIVITY**
Detection of uranium increased by ten times

10x sensitive

**FASTIER RESULTS**
Analysis time per sample in days reduced

2014: 55
2015: 35

**MORE ANALYSIS**
Measurement requests per sample increased

**BEST SERVICES**
Training area for Operators, State and Regulatory Organizations, and Agency staff.

Seibersdorf Laboratories
- New Clean Laboratory extension
- New Large-Geometry Secondary Ion Mass Spectrometer (LG-SIMS)
- New Scanning Electron Microscope

Inspectors collect environmental samples
Analysis at the environmental sample laboratories
Confirm completeness of State Declarations

Inspectors collect nuclear material samples
Analysis at the nuclear material laboratories
Confirm correctness of State Declarations

Seibersdorf Laboratories
- Modern glove boxes for plutonium analysis
- New training area

New modern Nuclear Material Laboratory

**EXAMPLES**
Plutonium
Uranium

analitical requests
samples

2011: 20
2012: 35
2013: 40
2014: 50
2015: 60

IAEA
International Atomic Energy Agency

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