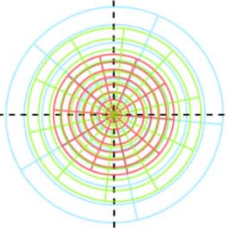


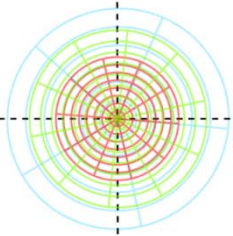
Nuclear Security Status and Progress 2011

Anita Nilsson
AN & Associates



Awareness building

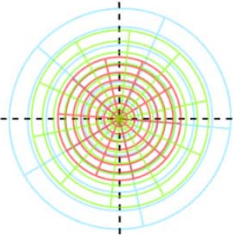
- The awareness of the nuclear terrorism threat has grown. Initiatives and the NSS helpful.
- The threat has been examined and justified as reason to establish effective nuclear security, for all nuclear material and radioactive substances in use, storage and transport.
- The future should focus on normative issues; to management of activities involving nuclear materials or radioactive substances in a safe and secure manner.
- Measures to involve the general public.



Legal instruments

- Several legal instruments interact:
 - CPPNM/A, NTC
 - safeguards agreements
 - UN Security Council Resolutions
- **Ratification of CPPNM/A** pending (less 50%)
- Complementarity of nuclear security legal instruments outlined in IAEA legal series no. 4.

Future: assist in any process that may accelerate ratification of CPPNM/A. Consider complementarity protocol or framework recognition.

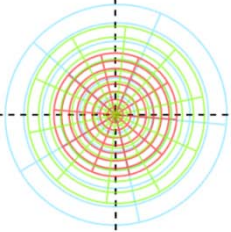


Implementing guidance

- Three recommendations level documents have been published; for nuclear material (INFCIRC/225/Rev. 5), for radioactive materials and for radioactive materials out of regulatory control.
- Security fundamentals; essential elements of a nuclear security system, in its final phase.
- Guidance on accounting nearing its final phase.
- WINS contribution with best practices.

Future: Completion of implementing guides. Systematic implementation.

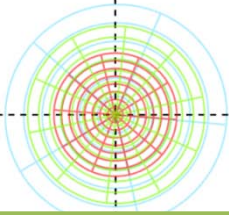
Ongoing discussion of future standards, integration with nuclear safety and for SSAC. International Nuclear Standards?



Education and training

- Some 8000 persons trained.
- Moving towards "train the trainer" courses.
- Education programme and network established (e.g. Ukraine, League of Arab States)
- Nationalization and regionalization started, through Nuclear Security Support Centres and regional training centres (e.g. Obninsk)

Future: Academic education and training available in all regions. Centres of excellence will be of great importance.



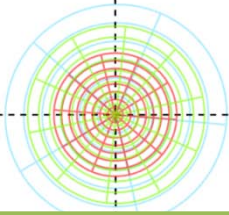
Effectiveness evaluation

- IPPAS for fuel cycle facilities requested.
- Modular evaluation scheme planned.

Future: Periodic, independent evaluation of effectiveness of present systems. Countries or group of countries to take leadership.

*Evaluations to benefit the nuclear industry, and
Serve as confidence building measures with general public.*

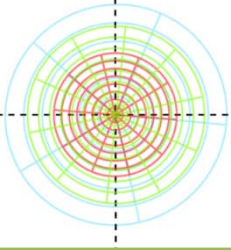
Give priority to communication and "transparency"



Risk reduction

- Securing vulnerable materials within 4 years.
- Significant progress on strengthening security of nuclear and radioactive materials, through IAEA, bilateral and multilateral programmes.
- >1000 kg of HEU research reactor fuel was repatriated through IAEA (e.g. Vinca fuel repatriation, and other shipments). The efforts continues.
- Building effective border control.
- Protecting major public events

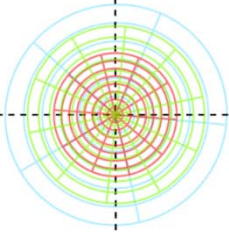
Future: Goal of 4 years to be achieved. Greater involvement of countries with major nuclear programmes. Encourage leadership.



R&D

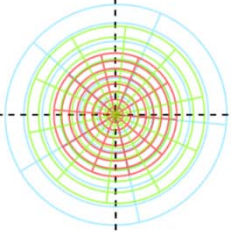
Present and future

- Development of user friendly radiation detection instruments
- Approach to relate risk assessment with national capacities and effectiveness evaluation
- Nuclear forensic. Work commenced on the establishment of libraries.
- Capacities at international, regional and national level to be defined
- Laboratory networks to be made available to all States.



International initiatives

- G8, GICNT, UN-committees
- Bilateral assistance programme
- Multilateral assistance programmes
- *Future: The ongoing work of initiatives and established committees require coordination. While utmost positive, without effective coordination, the initiatives and the IAEA run the risk of becoming in-effective.*



In summary

- Considerable progress has been made at the national level in NNWS countries.
- International insight in NWS less
- Institutional building, at the international, regional and national levels is a high priority.
- Sustainability measures for long-term achievements
- Strengthen the international legal framework, through international nuclear standards, one package; thematic and specific.