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Modernisation of Physical Protection of Russian Nuclear Installations in the Frame of G8GP-Program
Results of the G8 – Summit in Kananakis, June 2002

- Measures to combat terrorism and to increase nuclear safety
- Up to US-$20 billion over a period of 10 years
- First stage: implementation of cooperation projects in the Russian Federation
German Contribution

1. Destruction, Disposal and Elimination of **Chemical Weapons**

2. Securing and Dismantling of Russian **Nuclear Submarines**

3. Strengthening of the Security of **Nuclear Material** through Modernisation of Physical Protection Measures at Russian Installations
Sites, Proposed by Russian Authorities

- **ROSATOM**: Nuclear Centres for Military and Civilian Research and Production
  - Bochvar /Kurchatov
  - Dimitrovgrad
  - Mayak (Nuclear Weapon Complex)
  - Siberian Chemical Combine (SCK)
- **Ministry of Defence RF**: 3 Depots for Nuclear Weapons and Materials
Budget Allocation

- Bochvar: ca. 6,8 Mio €
- Kurchatov: ca. 2,8 Mio €
- Dimitrovgrad: ca. 6,2 Mio €
- Mayak: ca. 23,2 Mio €
- SCK: ca. 24,8 Mio €
- Ministry of Defence: ca. 66 Mio €

Total: ca. 130 Mio €

Contract Duration: 2003 - 2010
Program G8GP: ROSATOM Sites only

- Murmansk
- Kurchatov & Bachvar Institute, Moscow
- Research Institute of Atomic Reactors, Dimitrovgrad
- Plant Mayak, Oytersk near Chelyabinsk
- Siberian Chemical Plant, Seversk near Tomsk
- Irkutsk
- Vladivostok
GRS: Core Experiences

- GRS: Technical Safety Organisation (TSO) of the Federal Government
  - Nuclear Safety
  - Radiation Protection
  - Waste Disposal
  - Environmental Protection
  - Nuclear Security
GRS Activities in Physical Protection

- Since 1993 Training Program in Physical Protection for Newly Independent States (NIS)
- 1995 international Conference in Sankt Petersburg on Physical Protection
- Since 1995 - Upgrade Projects in Russia
- Since 2003 – G8GP
## Tasks and Procedures

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Tasks and Procedures

Preparation of purchasing of physical protection
- determination of special equipment
- preparation of contracts
- involvement of EU suppliers
- purchasing

Installation and commissioning of physical protection equipment
- monitoring of the installation during construction
- partial acceptance test, adherence to physical protection concept

Functional and acceptance tests
- joint examination of physical protection equipment and systems
- final minutes and final report
Results

- Bochvar: Object 1 - Measures have been finished
  Object 2 - Review of detailed design
- Kurchatov: Measures have been finished
- Dimitrovgrad: Review of detailed design
- Mayak: under modernisation
- SCK: under modernisation
- Ministry of Defence: Some depots have been finished, some more are under construction
Summary

- G8GP-Program is aimed to prevent the dispersal of mass destruction weapons resulting from possible terrorist actions

- Germany supports the improvement of Technical Security Systems for the Nuclear Facilities Bochvar, Dimitrovgrad, Depots Ministry Defense RF, Mayak and SCK

- GRS, based on its competence in the field of Security of Nuclear Facilities, assures on behalf of German Foreign Office the Implementation of Technical Security Measures in the mentioned Russian Nuclear Facilities