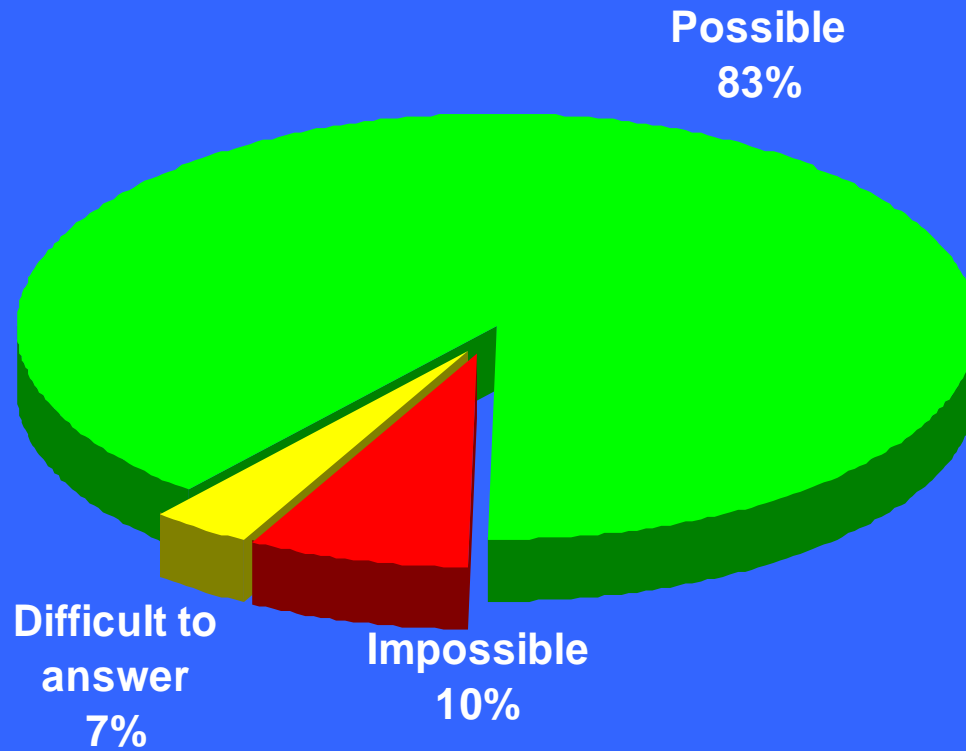


Vulnerability Assessment of the Top Security Facilities: Implications for Russia's Homeland Security and National Security Strategy

**Colonel-General (ret.) Yevgeny P. Maslin
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Is nuclear theft from Russian nuclear facilities possible or not?



Do you fear that Russian nuclear facilities may become a target of sabotage by terrorists?



Characteristics of a Terrorist Group

- Number of terrorists
- Types and numbers of weapons
- Way of movement
- Tactics
- Presence of terrorist agents among the facility personnel
- Technical capabilities of a terrorist group
- Forces to counter a terrorist attack

Number of terrorists

- **Group of 10-15 people,**
- **Can be split into 3 subgroups of 3-5 people (assault group, fire support group, assault support group) or 2 subgroups of 7 people**
- **Group has 2 members with engineering and technical skills**

Types and numbers of weapons

- Automatic small arms (2 RPK-type light machine guns, 10-15 assault rifles, of which 4-6 are equipped with grenade launchers)
- Rocket-propelled grenade launchers (2 RPGs)



Way of movement

- **On foot**
- **By truck**
- **By helicopter**



Tactics of penetration of a stationary target

- **Assault (penetration by force)**
- **Covert penetration**
- **Mixed (covert penetration and penetration by force)**

Tactics of attacking a moving target

- **Assault**
- **Ambush (V-type, with fire support group 1; L-type with fire support group 2; line-type; harassing; with lure; cross-type)**

Presence of terrorist agents among the facility personnel

- **Engineering and technical staff**
- **Guards**
- **Support regiments personnel**

Technical capabilities of a terrorist group

- Metal and stone – cutter
- Oxy-acetylene welding machine
- Set of keys and lock picks
- Explosives



Forces to counter a terrorist attack

- Guard forces personnel
- Support forces



Physical Protection of Nuclear Facilities in Russia in 2000

Levels of protection of facilities	Civilian facilities	Nuclear weapons complex	Naval facilities
Equipped with modern efficient physical protection systems	59	11	15
Upgrades of physical protection systems started	18	45	9
Equipped with obsolete physical protection systems	27	115	5
Total number of facilities	104	171	29

Conclusions

- The level of protection of warheads in Russia generally ensures their security
- A program of upgrading of facilities' physical protection systems is being implemented
- The main problem for this program is low financing
- More attention to this program is needed in the framework of G8 Global Partnership

