



Model of IAEA Nuclear Security Culture

Nexus between Nuclear Safety and Nuclear Security

Developing a Comprehensive Security Culture
Chemical, Biological, Radiological and Nuclear (CBRN)
Threat and Responses
8 October 2013, Vienna, Austria



Fundamental objective/systematic approach

- Protect people and environment from harmful effects of ionizing radiation caused by:
 - Operational incidents/accidents, natural phenomena, unintentional human errors (safety)
 - Sabotage against materials and facilities, unauthorized removal and subsequent malicious use of materials (security)



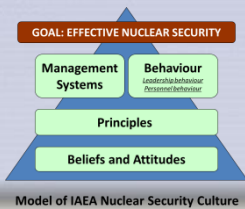
International background

- **CPPNM amendment Fundamental Principle F**

“All organizations involved in implementing physical protection should give due priority to the security culture; to its development and maintenance necessary to ensure its effective implementation in the entire organization.”

- **Code of Conduct on the Safety and Security of Radioactive Sources (2003)**





Nuclear Security Summit 2010 about NSC

The Summit 2010 in Washington DC, USA:

underlined the importance of NSC:

“Participating States will work to promote and sustain strong nuclear security culture”





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Nuclear Security Summit 2012 about NSC

The Summit 2012 in Seoul, Republic of Korea:

- Underlined that investment in human capacity building is fundamental to promoting and sustaining a strong nuclear security culture
- Encouraged governments, regulatory bodies, industry, academia, nongovernmental organizations and the media, to fully commit to enhancing security culture
- Welcomed the effort by IAEA to share experience and lessons learned and to optimize available resources
- Encouraged States to promote a security culture that emphasizes the need to protect nuclear security related information



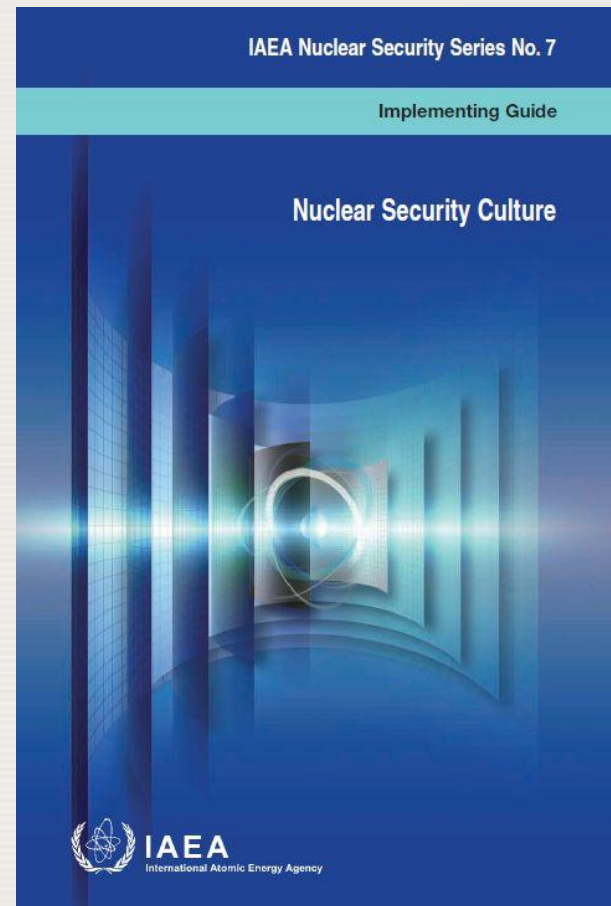


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Nuclear security culture

- NSS No.7.

“The assembly of characteristics, attitudes and behaviour of individuals, organization and institutions, which serves as a means to support and enhance nuclear security”



GOAL: EFFECTIVE NUCLEAR SECURITY

Management
Systems

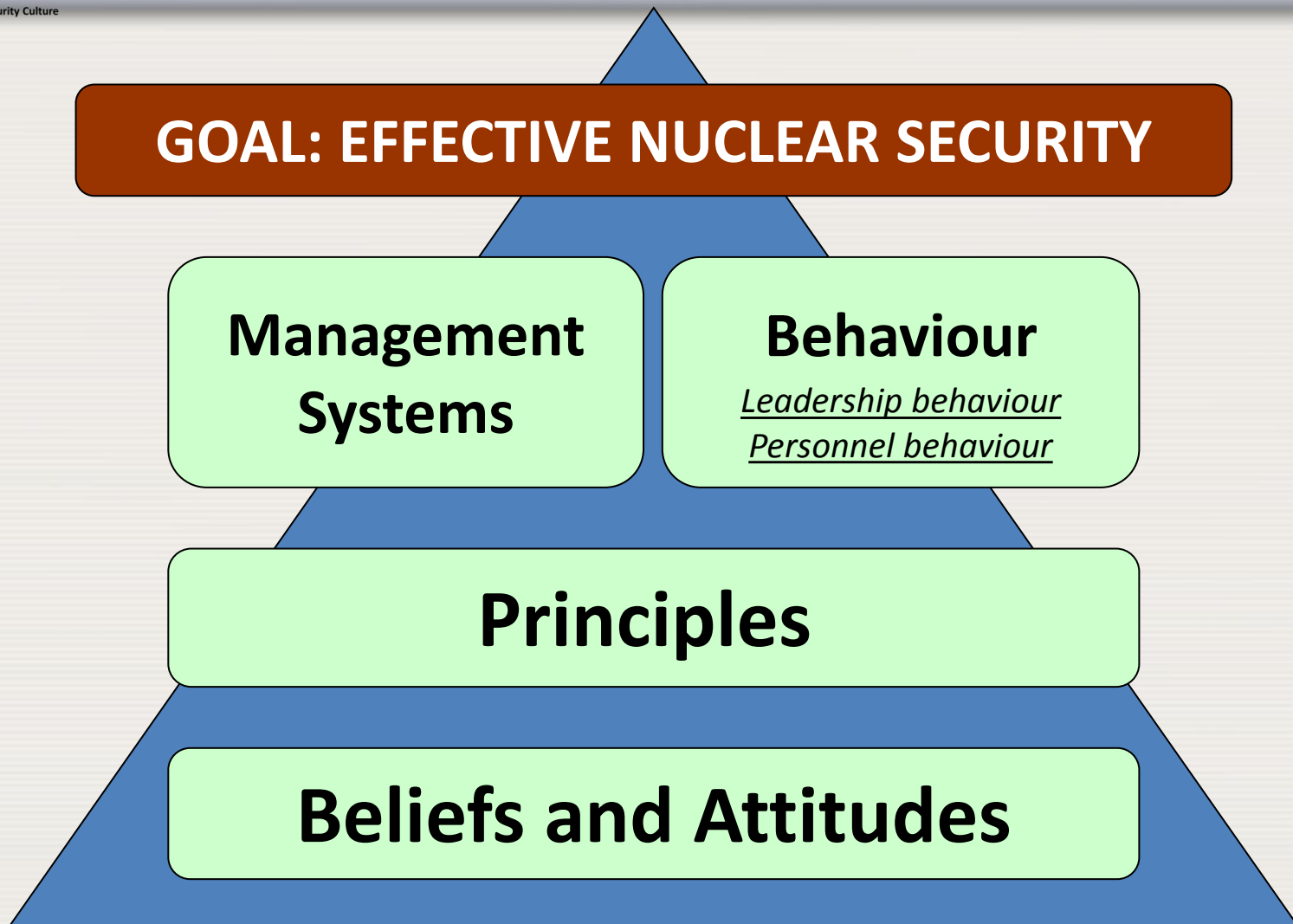
Behaviour
Leadership behaviour
Personnel behaviour

Principles

Beliefs and Attitudes

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IAEA Nuclear Security Culture Model

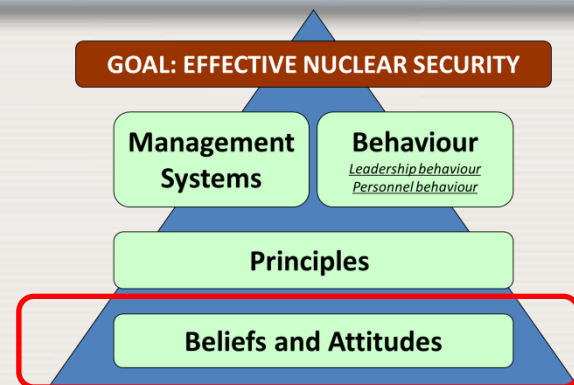




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Beliefs and attitudes

- 1) Credible threat exists;
- 2) Nuclear security is important



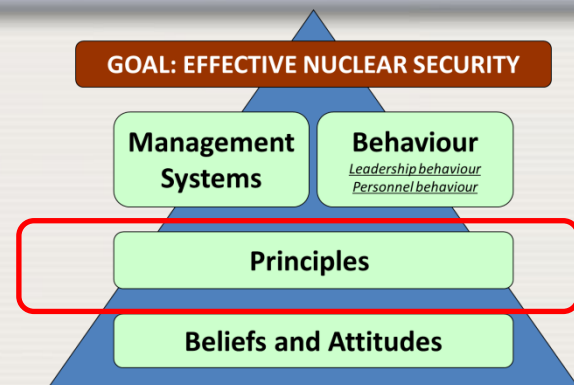
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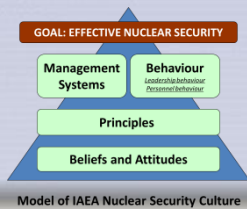
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Principles for guiding decisions and behaviour

- 1) Motivation
- 2) Leadership
- 3) Commitment and responsibility
- 4) Professionalism and competence
- 5) Learning and improvement

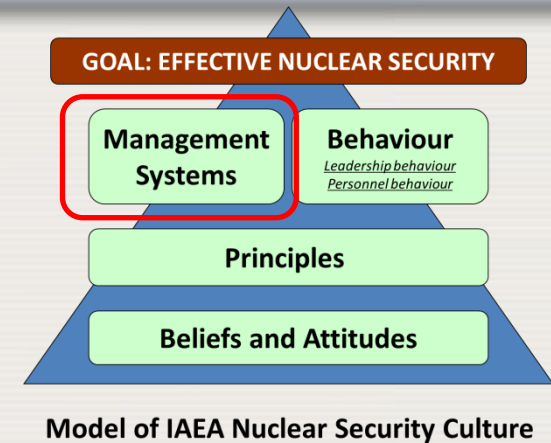


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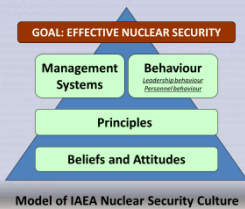


Management systems (1-9)

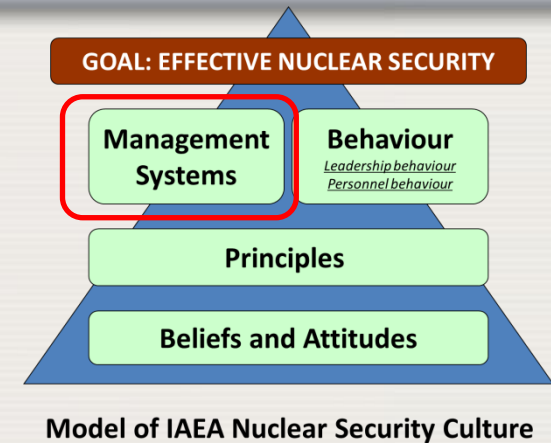
- 1) Visible security policy
- 2) Clear roles and responsibilities
- 3) Performance measurement
- 4) Work environment
- 5) Training and qualification
- 6) Work management
- 7) Information security
- 8) Operations and maintenance
- 9) Determination of trustworthiness



Management systems (10-17)



- 10) Quality assurance
- 11) Change management
- 12) Feedback process
- 13) Contingency plans and drills
- 14) Self-assessment
- 15) Interface with the regulator
- 16) Coordination with off-site organizations
- 17) Record keeping

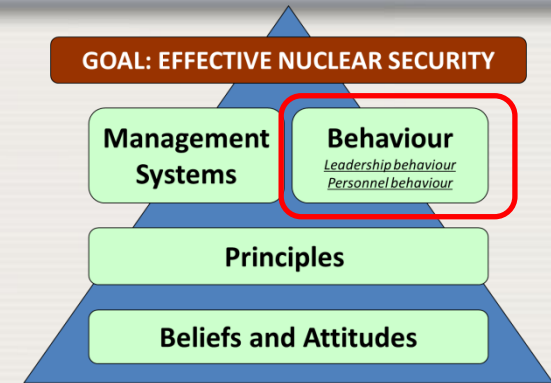


Leadership behaviour (8)



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- 1) Expectations
- 2) Use of authority
- 3) Decision making
- 4) Management oversight
- 5) Involvement of staff
- 6) Effective communications
- 7) Improving performance
- 8) Motivation



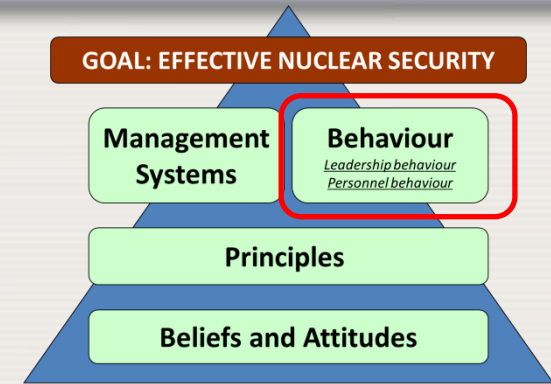
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Personnel behaviour (5)

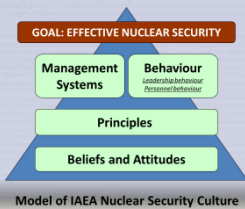


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- 1) Professional conduct
- 2) Personal accountability
- 3) Adherence to procedures
- 4) Teamwork and cooperation
- 5) Vigilance



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Common objective of Nuclear Safety and Security

- Principal shared objective of Nuclear Security and Nuclear Safety:

the protection of people, society and the environment from harmful consequences of a nuclear event

Goal: Effective nuclear safety and security



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Security & Safety culture

- Same aim in protection public and environment
- Sometimes the two cultures conflict
- Coordination mechanism is required
 - At legislative, requirement level
 - Responsibilities at regulatory level (licensing, inspections)
 - At operator level

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Behaviour
Leadership Behaviour
Personnel Behaviour

Principles

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Any Question?



Thank you for your attention!