



United States
Department of Energy
National Nuclear Security Administration
International Nuclear Security



**US DOE International
Nuclear Security Mission –
Lead US international efforts
to prevent theft and
sabotage of nuclear
materials and facilities
worldwide**

A MATURITY MODEL METHOD FOR NUCLEAR SECURITY PROGRAM ASSESSMENT & PLANNING

- Assesses **nation-level** capabilities - not facility or organization
- Supports developing relevant engagement plans and improvement activities

Needs are Common, Terms are not!

- **Security Disciplines** - includes Physical Protection, Material Control & Accounting, Computer security, etc.
- **Discipline Domains** - A domain is a logical grouping of common nuclear security practices that represent a core capability. For example, Incident Response for Computer Security.
- **Maturity Indicators** - observables that demonstrate security capability for a given domain.

Maturity Levels

Describe a progressive step in a country's capability and/or represent a demonstrated capability

Implementation Level	Definition
NI	Not Implemented - Absent
PI	Partially Implemented – Incomplete; there are multiple opportunities for improvement
LI	Largely implemented - Complete, but with recognized opportunity for improvement
FI	Fully implemented - Complete

Stakeholder Engagement Activities

- Specific to security discipline and domain based on maturity level
- Could organize across international organizations, nation state, regulatory agencies, individual organizations, etc.

		Stakeholders				
			INS	Government and Regulators	Nuclear Industry	International Organizations
Maturity Levels	All	<i>Sample Activities</i>				
	3					
	2					
	1					
	0					

Conclusions

- Common terms and method for assessing nation-level security capabilities and developing relevant engagement plans and improvement activities
- Presented a computer security exemplar but translatable to any security discipline
- When complete such methods facilitate the identification of national needs and could inform the development of an Integrated Nuclear Security Support Plan, incorporating IAEA and other international guidelines
- DOE INS is looking to partner with other countries to vet the method

Questions?

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