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The balance between Safety and Security issues during a nuclear security emergency

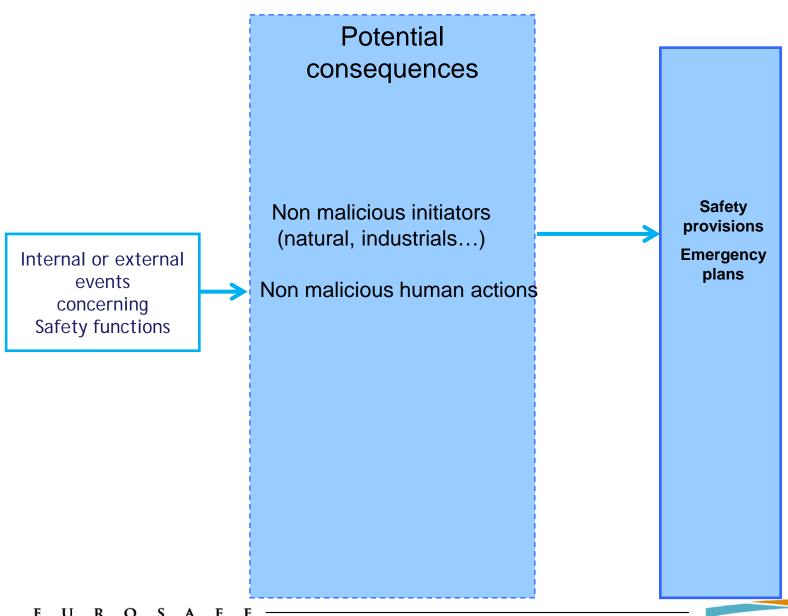
(based on security exercises feed-back)



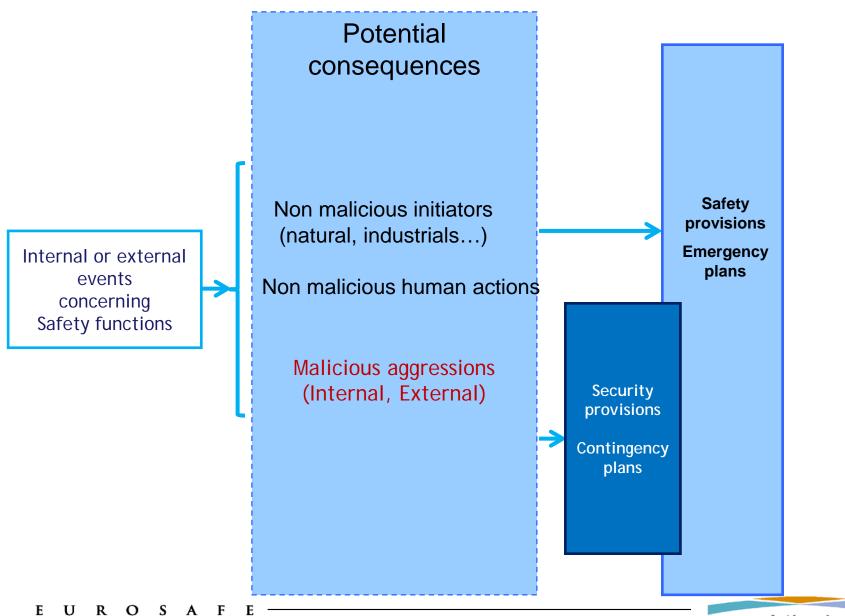
SUMMARY

- Context
- Feed-back from exercises
- Allocation of responsibilities
- Emergency response management synopsis
- Main issues

Global approach



Global approach



Context

IRSN has been involved in preparation and realization of exercises with the authorities, State agencies and operators for many years.

Testing on-site and off-site emergency plans:

- Safety exercises (with non intentional initiator)
 Large experience
- Safety exercises (with malicious initiator)
 Very limited experience

Testing on-site and off-site contingency plans:

Security exercises (malicious initiator)
 More limited experience

Feed back from exercises

Managing a severe aggression has several specificities:

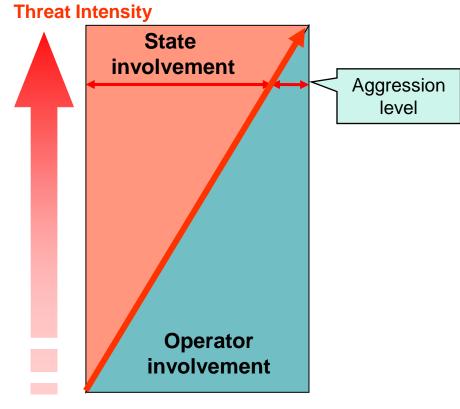
- The response to a severe attack against a nuclear facility encompasses protection of the public and the environment, maintaining public order... allocation of responsibilities between State and operator
- The emergency preparedness and response management has to be prepared at operator and State level
- A large number of local and national entities involved in the response will have to cooperate efficiently (security and safety authorities, operator teams, dedicated response forces, bomb squad, judicial authorities...)

Feed back from exercises

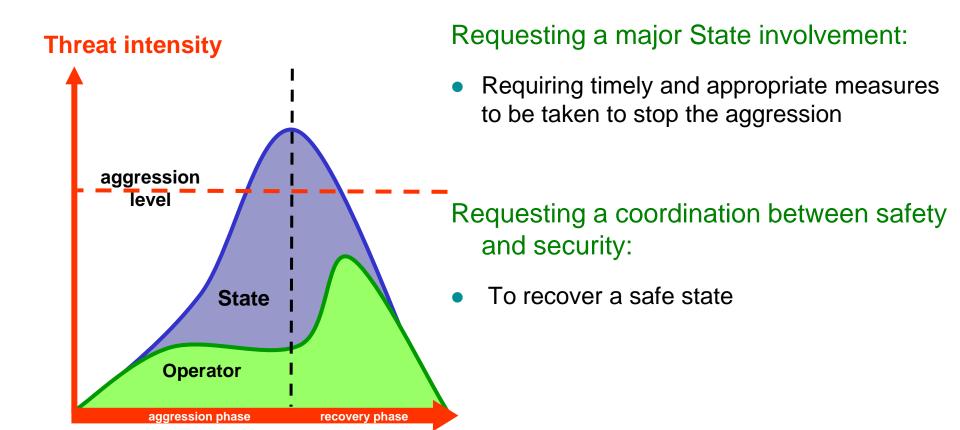
• Emergency situation management following an high intense malicious action demands a perfect cooperation of a large number of local, regional and national entities (security and safety authorities, operator teams, dedicated response forces, bomb squad, judicial authorities...) to handle the safety & security aspects of the situation

Allocation of responsibilities

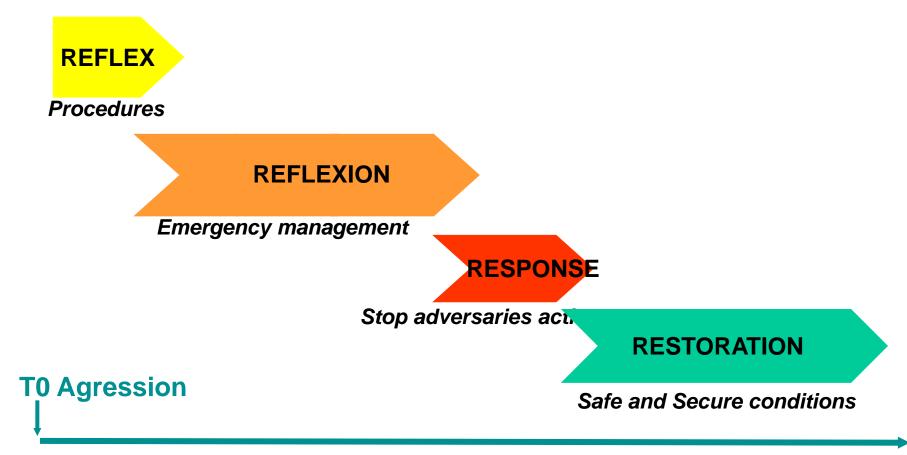
 Level of State involvement strongly depends on the intensity of the aggression



Allocation of responsibilities



Emergency response management Synopsis



4 « R » covering safety and security fields



Security checklists Detection and assessment of security events Contingency plan activated (regional / national level) National response informed Reflex phase attack Safety checklists Detection and assessment of safety events Emergency plan activated National safety emergency organisation activated

Securit		Command posts staffer Local forces intervent National forces involved All ministers informed Assessment of interver Negotiation with adverse Order for neutralization	ion ement l ntion strategy rsaries		
Reflection phase					
First statement, first response	Emer	gency management deployment	Analysis of the situation	Intervention strategy	Decision making process for assault
S		 Command posts staffed Maintain of safety functions Preparation of population protection 			
F 5 C	F E				Convergence of Sofety Proctices in Europe

security



- National forces lead negotiation with adversaries
- Last details of tactics are decided

Response phase

Neutralization of adversaries / Assault

Assessment of safety





Security



- Securing buildings and areas
- Search of evidences
- Contingency plan deactivated?

Recovery phase

Recovery strategy

Short term

Medium and long term

- Equipment check
- Strategy to restart stopped equipment
- Strategy in case of equipment failure



- Starting the repair works
 - Emergency plan deactivated?

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Towards Convergence of Technical Nuclear Safety Practices in Europe

Main issues

- Decision making process
- Emergency management in a timely fashion
- Coordination / interfaces
- Planning / preparation / training

Decision making process

- The decision making process may involve the highest State authorities
- Leadership (One, clearly identified)
- Must consider potential safety and security consequences
- Importance of an accurate assessment of the adversaries capabilities
- Specific issues to manage at the same time:
 - Mostile commando on site
 - Pre-accidental situation



Emergency management in a timely fashion

- Time is a major concern in such emergencies
- Ready for graded responses
- Emergency is not over after the assault
- Deadlines for recovery, setting priorities

Coordination / interfaces

- How to coordinate the different stakeholders involved in such an emergency?
- Complementarity or conflicts between safety and security
- Coordination between local and national involved entities
- Allocation of responsibilities for emergency management between several entities (State & Legal Authorities, Response forces, Operator)
- Links between several response forces
 (Local, Regional, National)

Planning / preparation / training

- Necessity to be prepared for emergency through development,
 implementation and testing of emergency and contingency plans
- Mutual understanding through sharing a safety and a security culture
- Knowledge of the NPP (staff, building layout, issues, environment,...)
 by all offsite actors
- Experience feedback



General conclusion

Security exercises are a way to progress in the management of safety and security interfaces by the development of a mutual understanding of entities with different skills and cultures and the sharing of experience feedback