

NUCLEAR SECURITY SERIES NO. XX

**NST056**

DRAFT, July 2017

STEP 8: Submission to MS for comment

# DEVELOPING A NUCLEAR SECURITY CONTINGENCY PLAN FOR NUCLEAR FACILITIES

DRAFT TECHNICAL GUIDANCE

INTERNATIONAL ATOMIC ENERGY AGENCY

VIENNA, 20XX

## **FOREWORD**

[Standard NSS Foreword to be added]

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# 1. INTRODUCTION

## BACKGROUND

1.1 The IAEA Nuclear Security Series provides guidance for States to assist them in implementing a national nuclear security regime, and in reviewing and when necessary strengthening this regime. The series also provides guidance for States in fulfilling their obligations and commitments with respect to binding and non-binding international instruments. The Nuclear Security Fundamentals set out the objective of a nuclear security regime and its essential elements [5]. The Nuclear Security Recommendations indicate what a nuclear security regime should address regarding:

- (a) Physical Protection of Nuclear Material and Nuclear Facilities [1];
- (b) Radioactive Material and Associated Facilities [7]; and
- (c) Nuclear and Other Radioactive Material out of Regulatory Control [8].

1.2. This guidance addresses the development of contingency plans by the operator. It is based upon national experience and practices as well as publications in the field of nuclear security. It constitutes a starting point for organizations that have not previously prepared or developed contingency plans for nuclear security events, as well as a reference for organizations that wish to validate or improve their existing contingency plans.

1.3. The Fundamental Principle K of the 2005 Amendment to the Convention on the Physical Protection of Nuclear Material states that “Contingency plans...should be prepared and appropriately exercised by all licence holders and authorities concerned” [10]. The IAEA Nuclear Security Series Recommendations on Physical Protection<sup>1</sup> of Nuclear Material and Nuclear Facilities (NSS-13) recommends the following regarding security contingency plans<sup>2</sup>: “Contingency plans should be prepared to counter malicious acts effectively and to provide for appropriate response by guards or response forces. Such plans should also provide for the training of facility personnel in their actions.”. [1]

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<sup>1</sup> Historically, the term “physical protection” has been used to describe what is now known as the nuclear security of nuclear material and nuclear facilities, and. Ref. [1] (which is also Revision 5 of INFCIRC/225) uses the term physical protection throughout (including using the term “physical protection regime” for those aspects of a nuclear security regime related to unauthorized removal and sabotage of nuclear material and nuclear facilities). To aid understanding of this publication as guidance on the implementation of INFCIRC/225 Revision 5, the term “physical protection” is used to refer to those aspects of nuclear security relating to measures against unauthorized removal or sabotage of nuclear material and nuclear facilities. Hence, for example, a State’s “physical protection regime” comprises those parts of its nuclear security regime that relate to such measures.

<sup>2</sup> Security contingency plans are referred to as contingency plans throughout this document.

1 OBJECTIVE

2 1.4. This publication provides guidance to States, competent authorities and operators on how to  
3 develop, enhance and maintain a contingency plan. It is intended for use by senior managers and  
4 security specialists in developing a contingency plan for nuclear security events, and by competent  
5 authorities to develop programmes for the oversight of the contingency plan.

6 1.5. This publication also emphasizes the interface between the security contingency plan and the  
7 emergency plan to ensure an effective, comprehensive, unified and coordinated response to the three  
8 types of nuclear security events [4] should both plans be invoked contemporaneously (e.g. because the  
9 nuclear security event triggered a nuclear or radiological emergency). Additionally, this publication  
10 assists Member States to ensure that “competent authorities and authorized persons are prepared to  
11 respond and respond appropriately” as outlined in IAEA Nuclear Security Fundamentals Essential  
12 Element 11.

13 SCOPE

14 1.6. This publication provides technical guidance for the operator’s contingency planning  
15 considerations to effectively respond to nuclear security events, and outlines the relationship and  
16 interface with the operator’s emergency plan. Although they can be recognized as nuclear security  
17 events, this document does not attempt to address computer security events or incidents as these are  
18 addressed in IAEA-TDL-005; “*Computer Security Incident Response Planning at Nuclear Facilities.*”

19 STRUCTURE

20 1.7. Following this introduction, Section 2 outlines elements of the contingency plan, physical layout  
21 of nuclear facility, local environment and targets, overview of the physical protection system,  
22 application of the threat assessment or design basis threat, and sections of the contingency plan.  
23 Section 3 outlines the objectives of the contingency plan and the goals of the contingency plan.  
24 Section 4 outlines rules of engagement, response procedures, recapture and recovery, protocols for  
25 off-site response, implementing contingency plans, minimization and mitigation methods, and  
26 command, control and communications. Section 5 outlines exercising the contingency plan, Section 6  
27 outlines maintenance of the contingency plan and Section 7 outlines information security. Annexes  
28 address interfaces of the contingency and emergency plan and provide examples of a response  
29 memorandum of understanding, an implementing procedure and an action matrix.

## 2. ELEMENTS OF CONTINGENCY PLANS

2.1. The operator should develop written contingency plan(s) to provide a timely and effective response to a nuclear security event, which should then be approved by the competent authority as part of the security plan. Operators should ensure that the competent authority is provided with sufficient evidence that the contingency plan has been appropriately coordinated with the requirements of the emergency plan to ensure there is no conflict of assigned responsibilities during an event.

2.2. In developing a contingency plan, the operator will need to begin by identifying the necessary data, criteria, procedures, resources and logistical support. Following this, the contingency plan can begin to be drafted.

2.3. When developing a contingency plan, a number of specific elements should be specifically addressed to ensure that the contingency plan provides all of the information needed during the response to a nuclear security event:

- (a) The physical layout (schematic arrangement of parts and area) of the nuclear facility, local environment, and targets (Note – include this if not part of security plan);
- (b) Overview of the physical protection system;
- (c) The application of the design basis threat or threat assessment;
- (d) Sections of the contingency plan;
- (e) Objective;
- (f) Incident response procedures;
- (g) Minimize and mitigate; and
- (h) Command, control and communications.

2.4. In this publication, one method of structuring a contingency plan is elaborated, involving dedicating a section of the plan to each of the elements. Other methods of organization are possible, as long as each area are addressed.

2.5. In the following sections, each of these elements is addressed and guidance is provided on developing the sections of the contingency plan for each element.

### PHYSICAL LAYOUT OF NUCLEAR FACILITY, LOCAL ENVIRONMENT AND TARGETS

2.6. The first section of the contingency plan should address the physical layout of the nuclear facility, the local environment and targets within the facility, to enable plan implementers to have ready access to this information for coordination of response activities.

1 2.7. The contingency plan should also include a description of the facility, including the physical  
2 structures located on the site, such as—where applicable—barriers, vital and inner areas, onsite fuel  
3 storage facilities, and other possible targets. This information should be provided to only those  
4 personnel who require the information to implement their part of the contingency plan.

5 2.8. The contingency plan should not only include a description of the facility, but also the site and the  
6 surrounding area. This description should include a description of the location of the site in relation  
7 to nearby towns, transportation routes (e.g. rail, water and roads), staging areas, pipelines, airports,  
8 hazardous material facilities, and pertinent environmental features that may have an effect upon  
9 coordination of response activities. Main and alternate entry routes for off-site response should also  
10 be described in the plans and maps should also be included, as appropriate.

## 11 OVERVIEW OF THE PHYSICAL PROTECTION SYSTEM

12 2.9. In addition to a section describing the physical layout of the facility and its environs, the  
13 contingency plan should include a section that contains a visual depiction (e.g. maps, drawings and  
14 floor plans) as well as a description of the physical protection systems that support and influence the  
15 operator's response to a nuclear security event.

16 2.10. The description should include all onsite physical protection measures, from those implemented  
17 at the outermost facility perimeter to those protecting vital and inner areas as well as other targets.

18 2.11. The description should include a specific explanation of any physical protection systems and  
19 hardware providing defence-in-depth, such as access delays, detection systems, access controls,  
20 armaments and communications systems, as identified in the operator's security plan.

## 21 APPLICATION OF THE THREAT ASSESSMENT OR DESIGN BASIS THREAT (DBT)

22 2.12 According to Ref. [3], "the State, the appropriate competent authorities and the operator should  
23 have a comprehensive set of contingency plans that address different types of nuclear security event."

24 2.13 In order to ensure that an appropriate range of different types of nuclear security events are well-  
25 addressed in the contingency plan, a section of the plan should be devoted to possible site-specific  
26 scenarios following from possible nuclear security events. Site-specific scenarios should be  
27 developed by the operator based on possible nuclear security events. The contingency plan should  
28 then outline steps that would be taken by response personnel to respond to the site-specific scenarios.

29 2.14 Appropriate site-specific scenarios for sabotage and/or unauthorized removal of nuclear material  
30 should be identified using the State's Threat Assessment or DBT.



## 1 SECTIONS OF THE CONTINGENCY PLAN

2 2.15. When addressing contingency response planning, roles, responsibilities and priorities for  
3 protection to deliver an effective response should be defined in the contingency plan. In addition, the  
4 minimum number of response personnel required to implement the contingency plan should be  
5 determined, and this number should be documented in the contingency plan, the operators' security  
6 plan or as required by the relevant competent authorities. The operator should also identify and  
7 document off-site response forces needed to support the response.

8 2.16. The contingency plan should also be consistent and well-integrated with the State's Contingency  
9 Plan and the operator's emergency plan (See Annex I for areas of interfaces between the contingency  
10 and emergency plans), nuclear material accounting and control (NMAC) plan and off-site response  
11 procedures to ensure a integrated and comprehensive and complimentary response.

## 12 **3. OBJECTIVES OF THE CONTINGENCY PLAN**

13 3.1. A contingency plan is a predefined set of actions for response to unauthorized acts indicative of  
14 attempted unauthorized removal or sabotage, including threats thereof, designed to effectively counter  
15 such acts.

16 3.2. Fundamental Principle K states that “[c]ontingency (emergency) plans to respond to unauthorized  
17 removal of nuclear material or sabotage of nuclear facilities or nuclear material, or attempts thereof,  
18 should be prepared and appropriately exercised by all licence holders and authorities concerned.” [10]  
19 Further, Ref. [10] adds that “the State's competent authority should ensure that the operator prepares  
20 contingency plans to effectively counter the threat assessment or design basis threat taking actions of  
21 the response forces into consideration.”

22 3.3. The contingency plan should be, according to Ref. [1], approved by the competent authority as  
23 part of the operator's overall facility security plan, which is prepared by the operator for approval by  
24 the competent authority.

25 3.4. While separate from the emergency plan for the facility, noted in Ref. [2], “Fundamental  
26 Principle [K] may imply that contingency plans are the same as emergency plans. In practice there  
27 are differences among States in the definition and use of these terms. In Ref. [1], the contingency  
28 plan is part of the overall nuclear security plan, and relates to the response of physical protection  
29 personnel to nuclear security events involving malicious acts. In IAEA safety standards [2], the

1 emergency plan<sup>3</sup> relates to the response to a nuclear or radiological emergency, whether that  
2 emergency is caused by an accident or a malicious act. However, the implementation of the  
3 contingency plan and the emergency plan will require coordinated response by physical protection,  
4 NMAC and safety personnel.” In Ref. [1], the contingency and emergency plans should be  
5 comprehensive and complementary.

6 3.5. The current publication provides detailed information for the operator for drafting, implementing  
7 and sustaining a contingency plan.

## 8 GOALS OF THE CONTINGENCY PLAN

9 3.6. According to Ref. [3], “[t]he goals of contingency planning are to ensure a timely and effective  
10 response at all levels to any nuclear security event involving a malicious act involving or directed at a  
11 nuclear facility and to maintain physical protection during other events, such as an accident involving  
12 a release of radionuclides, a medical emergency or a natural disaster. The correct actions need to be  
13 taken and decisions made at the right time to adequately respond to the event and resolve the  
14 situation.”

15 3.7. In developing a contingency plan to meet these goals, the operator should ensure that the  
16 contingency plan provides clear guidance for the following actions that would need to be undertaken  
17 in the case of a nuclear security event:

- 18 (a) Determining the credibility of the nuclear security event and the scope of potential  
19 consequences for the facility and personnel;
- 20 (b) Activating appropriate response plans, personnel and resources to address the nuclear  
21 security event;
- 22 (c) Taking appropriate actions to protect the facility and personnel and mitigate the  
23 consequences of the nuclear security event;
- 24 (d) Ensuring that the ability to effectively implement the response plan is maintained  
25 throughout the nuclear security event; and
- 26 (e) Determining the criteria for the termination of nuclear security events so that operations  
27 can be restored.

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<sup>3</sup> Emergency plan: A description of the objectives, policy and concept of operations for the response to an emergency and of the structure, authorities and responsibilities for a systematic, coordinated and effective response. The emergency plan serves as the basis for the development of other plans, procedures and checklists. [2]

1 3.8. In addition, contingency plans and emergency plans should be complementary clearly identify the  
2 interface between the security contingency plan and the emergency plan to ensure an effective,  
3 comprehensive, unified and coordinated response to nuclear security events.

4 3.9. In addition, contingency plans and emergency plans should be complementary to ensure an  
5 effective, comprehensive, unified and coordinated response to nuclear security events.

## 6 **4. INCIDENT RESPONSE PROCEDURES**

### 7 **RULES OF ENGAGEMENT**

8 4.1. This section of the operator's contingency plan should account for legal aspects or constraints that  
9 could affect the contingency response, such as restrictions on the use of force as well as other  
10 administrative and logistical requirements for on-site and off-site response personnel, such as those to  
11 ensure equipment and other resources are readily available and in working condition.

### 12 **RESPONSE PROCEDURES**

13 4.2. According to Ref. [1], "the operator should initiate its contingency plans after detection and  
14 assessment of any malicious act." However, the criteria by which the operator judges that a malicious  
15 act has been detected and assessed should be clearly described in the contingency plan. These criteria  
16 should include those that indicate the beginning of a nuclear security event, according to how the  
17 situation would be initially perceived by response personnel.

18 4.3. The criteria for the activation of a response to a nuclear security event could include the  
19 identification or notification of certain malicious acts that put the facility at risk in such a way that if  
20 unmitigated, would lead to unacceptable radiological consequences or unauthorized removal of  
21 material. Some examples could include (but are not limited to):

- 22 (a) Armed attack;
- 23 (b) Civil disturbance or protest;
- 24 (c) Discovery of insider threat;
- 25 (d) Loss of off-site power (or station blackout);
- 26 (e) Protected area/vital area intrusion; or
- 27 (f) Suspected unauthorized removal of nuclear material.

28 4.4. Member States could also consider identifying and including criteria to activate the contingency  
29 plan in situations that do not involve a nuclear security event, but could still require a security  
30 response, such as natural disasters, peaceful protest and or a fire. However, the interface with the

1 emergency response should be carefully considered in this case (more guidance is provided on this  
2 topic in Annex I).

3 4.5. When defining the criteria for activating the contingency plan(s), careful consideration should be  
4 given to conditions taken into account in the emergency classification used at activating appropriate  
5 level of the emergency response as required in GSR Part 7 [2], so that any coordination with regard to  
6 notification and activation should be ensured accordingly.

7 4.6. The contingency plan should also describe criteria used to determine when to terminate the  
8 response to a nuclear security event. These criteria would determine when to return the facility to  
9 secure security posture once the threat has been neutralized or the facility is no longer at risk.

10 4.7. In this section of the operator's contingency plan, the operator should specify areas, such as the  
11 target set equipment, control room, which require additional protection as well as potential adversary  
12 routes and timelines to those areas and ensure timelines are appropriate for response personnel to  
13 implement their actions in each scenario. The plans should also include response positions that  
14 provide protection for responders and will enable response personnel to appropriately respond to the  
15 nuclear security event. In addition, provisions should be included in the plan to provide response  
16 personnel with the appropriate equipment needed to respond to the nuclear security event, such as  
17 weapon systems, protective equipment, communications, transportation and other response  
18 equipment.

19 4.8. This section of the contingency plans should also address ensuring that procedures, roles and  
20 responsibilities, and resources are identified and in place in advance. In developing an effective plan,  
21 regardless whether the response force is based on-site or off-site, the operator should develop site-  
22 specific implementing procedures for each site-specific scenario included in the contingency plan.  
23 The ultimate aim of the contingency response planning is to return the facility to a secure security  
24 posture.

25 4.9. A section of the contingency plan should specifically address the on-site response forces.  
26 Notably, the plan should specify that guards and on-site response forces assigned to implement the  
27 contingency plan—which may include on-site military and or law enforcement personnel—should be  
28 suitably trained and qualified in those duties, available to respond at all times and should not be  
29 assigned other duties or responsibilities that could negatively impact the implementation of the  
30 contingency response.

31 4.10. In order to aid execution of the contingency plan, the operator would consider capturing this  
32 information within an action matrix. (see Annex IV).

33 4.11. Protocols for response should be established between the operator and any on-site response  
34 forces and these protocols should be referenced and described in the contingency plan. These

1 protocols would describe the specific actions, areas of responsibility, resources and associated  
2 timelines for implementation of the operators contingency response by on-site response forces.

### 3 PROTOCOLS FOR OFF-SITE RESPONSE

4 4.12. In addition to the section of the contingency plan referring to the on-site response forces,  
5 arrangements for off-site response forces should be discussed in a separate section, including a  
6 reference to a description of any protocols established between the operator and the off-site response  
7 force organization.

8 4.13. Protocols such as written Memoranda of Understanding (MOU) should be established  
9 between the operator and relevant off-site response force organizations. The purpose of such  
10 protocols is to facilitate cooperation, understanding and arrangements between on-site and off-site  
11 response forces and to integrate the off-site response forces into the overall contingency response  
12 planning process. Challenges may occur in relation to delivering off-site response protocols, such as  
13 securing resources, response times, sensitive information considerations, integrated secure  
14 communications and facility familiarity, and should be considered in the contingency plan. An  
15 example of a response memorandum of understanding is included as Annex II.

16 4.14. Protocols should outline the roles and responsibilities of the operator and the response force  
17 organization in the case of a nuclear security event. More specifically, protocols should: establish  
18 incident command structure to eliviate the potential for confusion by any responding agencies, specify  
19 responsibilities for each agency and identify the communications methods required at all levels of  
20 response; provide a general description of the number of personnel for each agency responding, the  
21 response capabilities; i.e., weapons, equipment, etc., and timelines for personnel immediately  
22 available and those personnel that will be arriving at a later time ; and provide timely reception,  
23 marshalling and coordination of response activities. This would include the identification of suitable  
24 secure locations, in close proximity to the facility, where responders could receive a situational brief  
25 to enable them to plan and prepare their response.

26 4.15. In addition, the protocols should specify: the availability of key personnel and any additional  
27 information (i.e, maps, floor plans, equipment diagrams) necessary to assist in command decisions,  
28 briefings, assignment of responders, and situational awareness; locations that have adequate utilities,  
29 such as sanitation, water and electricity to sustain operations; and equipment needed to respond to the  
30 nuclear security event, such as weapon systems, protective equipment, communications,  
31 transportation, locations and capabilities of equipment staged on-site and off-site.

32 4.16. Provisions for a periodic review of the protocols for off-site response in concert with the review  
33 of the operator's security plan should be made. This could include reviewing that the protocols are  
34 consistent with and can operate in conjunction with the contingency and emergency plans (see Annex

1 D) and reviewing and renegotiating as necessary at the request of either party if changes occur to the  
2 governing conditions such as operating regulations, competent authorities or threat levels (DBT).

### 3 IMPLEMENTING CONTINGENCY PLANS

4 4.17. A section of the contingency plan should also address the implementation of the contingency  
5 plan. Operators should establish and maintain procedures containing predetermined actions to be  
6 taken in the event that the contingency plan is initiated. To enable immediate response, these  
7 procedures would be developed to enable unified command and control through provision of specific  
8 guidance that identify the steps to be taken and decisions to be made by each member of the response  
9 organization. An example implementing procedure is provided to demonstrate how to develop  
10 written procedures that implement the requirements of the contingency plan in Annex III.

### 11 RECAPTURE AND RECOVERY

12 4.18. Protocols should be established to outline the roles and responsibilities of the operator and with  
13 off-site response forces for material that has left the facility. For on-site, as suggested in Ref. [3]  
14 these will include notifications, the operator processes to continue to look for missing material,  
15 securing the area where the material was stored and protecting as a crime scene.

16 4.19. For off-site response by the operator; i.e., “hot pursuit” ensure all coordinations with State  
17 authorities and off-site responders are detailed and in accordance with all applicable laws and  
18 regulations.

19 4.20 Recovery actions taken by the operator to coordinate securing and return of material to the  
20 facility would be described in detail to include who will be responsible for transport and preservation  
21 of evidence for potential criminal proceedings.

### 22 MINIMIZE AND MITIGATE

23 4.21. This section could be populated by way of flow diagrams, computer modelling or an action  
24 matrix.

25 4.22. An action matrix is a planning tool that can be used by response personnel to inform timely  
26 decision making and specify procedures for the steps to respond to a specific type of nuclear security  
27 event. For each type of nuclear security event, specific actions, roles and responsibilities, resources  
28 and associated timelines would be assigned in the action matrix in a manner that prevents conflict in  
29 duties and promotes interoperability across the contingency and emergency response plans.

30 4.23. The operator’s action matrix, or suitable alternative, would be based on the scenarios outlined in  
31 the contingency plan as well as the criteria for contingency response, and should include the following  
32 information:

- 1 (a) A short heading describing the type of event (i.e. Event 1: Bomb Threat);
- 2 (b) A brief narrative of an activity that identifies the beginning of an initiating event, which  
3 provides enough information to allow response personnel to establish initiation of the  
4 contingency plan;
- 5 (c) Responders who could be assigned duties and actions as a result of an initiating event;
- 6 (d) Specific duties and the steps to be taken by responsible personnel, including initial alerts  
7 or event notifications, assessment, communication, activation of response, mitigating  
8 actions (denial, containment, recapture, recovery, forensics), and return to normal  
9 operations; and
- 10 (e) Relevant supporting information that will facilitate decision making and necessary actions  
11 (e.g. procedures, floor plans, maps, cordon distances, alarm zones and contact lists). This  
12 information should not contain an excessive amount of background information or  
13 material to the extent that it could hinder navigation by response personnel or their  
14 subsequent decision making.

## 15 COMMAND, CONTROL AND COMMUNICATION

16 4.24. Command, control, and communication—including coordination, management, chain of  
17 command, handover and delegation of authority during a contingency response—should be  
18 documented in the contingency plan. These aspects should be integratable to those in the emergency  
19 plan to allow for effective response if both plans are invoked contemporaneously. All communication  
20 methods and protocols would need to be accounted for, including their interoperability and how they  
21 would be implemented and maintained during the event.

## 22 5. EXERCISING THE CONTINGENCY PLAN

23 5.1. Once the contingency plan is in place, they need to be regularly exercised and reviewed in order  
24 to maintain their usefulness and to contribute to continuous improvement. In addition, sensitive  
25 information relevant to the contingency plans needs to be protected. The following sections address  
26 these three aspects of maintaining the contingency plan.

27 5.2. As part of the discussion of contingency plans, Ref. [1] recommends that “[t]he coordination  
28 between the guards and response forces during a nuclear security event should be regularly exercised.  
29 In addition, other facility personnel should be trained and prepared to act in full coordination with the  
30 guards, response forces and other response teams for implementation of the plans.”

1 5.3. Specifically, the operator should ensure that all personnel involved in contingency response  
2 undertake initial training as well as periodic training and participate in exercises of the contingency  
3 plan and emergency response plan to the appropriate level commensurate with their roles and  
4 responsibilities. The operator should also conduct joint exercises between safety, NMAC and security  
5 to demonstrate unified communication, command and control, handover, interfacing and the  
6 interoperability between contingency and emergency planning. Joint security exercises with the  
7 facility and off-site organizations should also be undertaken to test and practise implementation of the  
8 contingency plan as well as the coordination between the contingency and emergency plans.

9 5.4. Training and exercises could include table top exercises, limited scope testing, classroom  
10 lectures, familiarization walk downs, force on force and/or performance based activities to validate  
11 the components of the contingency plan. Training and exercises should evaluate the ability of  
12 response personnel to implement of the contingency plan. The ability of personnel to implement the  
13 plan could be evaluated based on knowledge of topics such as:

- 14 (a) Implementing procedures;
- 15 (b) Facility, targets, physical protection systems and defense-in-depth measures;
- 16 (c) DBT to the facility;
- 17 (d) Response equipment;
- 18 (e) Response positions and timelines; and
- 19 (f) Steps to be taken by individual and or groups in particular situations.

20 5.5. Alongside the training and exercises, the operator should develop an evaluation process to  
21 identify lessons learned from the training and exercises that could be incorporated into a corrective  
22 action programme to further improve and refine the plans. For example, operators could document  
23 scenarios and participants for all drills and exercises. This could include a documented post-exercise  
24 critique in which participants identify best practices, areas for improvement deficiencies or other  
25 findings in relation to performance, plans, equipment or strategies. Issues identified that decrease the  
26 effectiveness of the physical protection regime would then be recorded in the operator's corrective  
27 action programme for timely corrections to the appropriate programme area. Issues recorded into the  
28 corrective action programme should be protected properly, and communicated on a need-to-know  
29 basis, according to information security requirements of the competent authority.

## 30 **6. MAINTENANCE OF THE CONTINGENCY PLAN**

31 6.1. In Ref. [1], it is recommended that operators establish a process to monitor and manage physical  
32 protection elements. Accordingly, operators should ensure that the contingency plan continues to



1 meet risk mitigation requirements over the long term. This can be accomplished by periodic and  
2 independent reviews, audits, testing, and maintenance of the contingency plan in accordance with the  
3 requirements of the competent authority.

4 6.2. Such a process should include updating the contingency plan as soon as reasonably practicable  
5 after any changes occur in personnel, procedures, equipment, or facilities that may have an adverse  
6 affect on the plan; ensuring revisions to the contingency plan are submitted to and approved by the  
7 relevant competent authorities; and regularly reviewing interoperability with emergency plans,  
8 NMAC and all organizations involved in the contingency plan.

9 6.3. Protocols that are relevant to the contingency plan, such as an MOU's made between the operator  
10 and local, state, and national agencies, should also be reviewed. They should be conducted at  
11 required intervals or as necessary, in order to ensure expected performance requirements are being  
12 met.

13 6.4. Impartial and unbiased assessments of the contingency plan should also be performed at intervals  
14 determined by the competent authority. These assessments should be audited by competent  
15 personnel, independent of the security programme.

16 6.5. The results of the reviews, audits, and performance evaluations of the contingency plan should  
17 constitute part of the operator's lessons learned and corrective action process. They should be  
18 available to the operator's management to enable management to assess the findings,  
19 recommendations and implement corrective actions when needed.

20 6.6. All records related to reviews and audits as well as other documentation should be retained in  
21 accordance with the requirements of the competent authority.

## 22 **7. INFORMATION SECURITY**

23 7.1. The contingency plan could contain sensitive information that would need to be protected  
24 properly according to information security requirements of the competent authority. Information  
25 management procedures should define that distribution of sensitive information is limited to  
26 appropriate individuals, including off-site agencies and external stakeholders, whose trustworthiness  
27 has been appropriately determined, on a need-to-know basis. Controls applied to sensitive information  
28 could include records of its receipt, location, dispatch and destruction. There should also be  
29 procedures to ensure the integrity and availability (on a need-to-know basis) of the information  
30 critical to appropriate response. This includes information systems (such as detection/assessment  
31 systems and communication systems.)

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## REFERENCES

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## ANNEX I – INTERFACE OF THE CONTINGENCY AND EMERGENCY PLANS

This annex lists areas of interfaces between the contingency and emergency plans. Each section highlight the main areas of interface and are supported with examples within these areas.

### FACILITY DESIGN FEATURES

a. Initial site selection and design takes physical protection into account as early as possible and that safety and security functions are mutually supportive and avoid conflicts to the extent possible. As the contingency plan is a predefined set of actions for response to unauthorized acts, the following are examples of where an interface may exist between emergency and contingency planning:

- Physical layout of nuclear facility and local environment (e.g. demographics and topography)
- Safety related equipment and radioactive material requiring protection against unauthorized removal /sabotage based upon a graded approach
- Location and protection of control rooms, emergency response facilities and alarm stations
- Design of fire safety features (fire doors, suppression systems, etc.)
- Emergency evacuation/access routes (including physical barriers along these routes)

b. Coordination of changes to the layout or design of a nuclear facility that may impact security and/or emergency response.

### PLANS AND PROCEDURES

a. Contingency and emergency plans should take into account the respective security and safety requirements.

b. Consistency between contingency plans and emergency plans

- The contingency and emergency plans are implemented with the appropriate level of response.
- The contingency and emergency plans should be comprehensive and complementary.
- Alignment of off-site emergency plans, procedures and assets, and interaction with on-site security forces (for example, access control; on-site protection).
- Sufficient numbers of security personnel to support an emergency response while maintaining adequate security.

1 c. Memoranda of Understanding (MOU) with any single off-site response organization are  
2 consistent with both the emergency and contingency plans.

### 3 ORGANIZATION STRUCTURE

4 a. The roles and responsibilities are identified between the emergency plan and the contingency  
5 plan in order to:

6 — Define the coordinated response, including decision making

7 — Respond with appropriate number of qualified personnel, with appropriate and sufficient  
8 equipment, and within required timelines

9 — Competing priorities (dual assignments; unavailability) for security personnel during an  
10 emergency response

11 b. Establishment and use of a unified command and control system for emergency and  
12 contingency response that provides for effective coordination of on-site and off-site response. Some  
13 characteristics of the unified command and control mechanism may include the following:

14 — Location of unified command and control facility may evolve with progression of the event

15 — On site and off site authority and responsibility

### 16 IMPLEMENTATION OF THE CONTINGENCY PLAN

#### 17 **Initiating event<sup>4</sup>**

18 a. Assessment of an event:

19 — Identification of initiating events that require coordination between emergency and  
20 contingency plans

21 — Coordinated activation of both internal emergency and security personnel, which may  
22 include but is not limited to

23 — Arranging access to vital areas

24 — Moving physical barriers

25 — Relocation of security personnel based upon a radiological event

26 — Time line and criteria for activation may be different for contingency plans versus  
27 emergency plans. Of note would be site Emergency Action Levels that may call for the

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<sup>4</sup> IAEA, Developing a National Framework for Managing the Response to Nuclear Security Events, Draft Implementing Guide NST004 [TO BE PUBLISHED]

1 activation of the contingency plan for other than a security initiated event or for activation of  
2 the emergency plan in case of a nuclear or radiological emergency triggered by a nuclear  
3 security event.

#### 4 **On-site**

5 a. Coordination between the emergency plan and the contingency plan to ensure protection from  
6 all hazards, including radiological hazards.

7 b. Coordination between the emergency plan and the contingency plan to ensure safe movement  
8 of emergency workers necessary to perform required actions.

9 c. Coordination of security measures for all personnel.

10 d. Emergency evacuation of personnel, as prescribed in the emergency plan, for rapid and safe  
11 egress to designated emergency planning zones

12 e. Coordination in relation to accountability of personnel and nuclear/radiological material  
13 following an emergency evacuation.

14 f. Identification of safety-related equipment and devices, equipment within vital areas, and  
15 hazardous materials that may be adversely affected by the security response actions.

16 g. Coordination of safety and security response as event progresses and adaptation of protective  
17 strategies against threat.

18 — Re-evaluation of target(s) as event progresses

19 — Adapting protective strategies as event progresses

#### 20 **Off-site**

21 a. Coordination between the emergency and contingency plan to ensure protection from all  
22 hazards, including radiological hazards, of off-site security response assets, and the potential need for  
23 rapid ingress/egress of response personnel.

#### 24 **COMMUNICATIONS**

25 a. Secure internal communication systems between contingency and emergency response  
26 personnel.

27 b. Awareness and understanding of contingency and emergency response actions and  
28 terminology.

29 c. Redundant methods of communication for both contingency and emergency response.

30 d. Communication processes established between the contingency and emergency response in  
31 order to ensure a coordinated response.

- 1 e. Coordination of notification to appropriate levels of contingency and emergency response  
2 consistent with the potential severity of the event.
- 3 f. Coordinated notification to off-site agencies.
- 4 g. Coordination of the public communication strategy established regarding contingency and  
5 emergency response that provides for transparency while maintaining the appropriate level of  
6 confidentiality (e.g. not disclosing security or safety related sensitive information) based upon the  
7 audience (e.g. media, local population, other nuclear facilities, other stakeholders) and timing of  
8 information release.

## 9 RECOVERY

- 10 a. Prioritized and coordinated recovery team efforts (all hazards, medical, security, etc.)  
11 — Clearing of areas and site equipment (e.g. searching for additional or residual security  
12 concerns) prior to resuming operations.
- 13 b. Preservation of forensic evidence (e.g. unnecessary interference with collection or preservation  
14 of evidence)

## 15 TRAINING AND EXERCISES

- 16 a. Initial and periodic training, commensurate with the job and tasks of the contingency and  
17 emergency personnel.
- 18 b. Exercises are undertaken to test and practise implementation of the contingency plan and joint  
19 exercises test and practice coordination between the contingency and emergency plans. Lessons  
20 learnt from contingency and emergency, and joint exercises are captured and used to further refine the  
21 plans.

## 22 SUSTAINABILITY PROGRAMME

- 23 a. An effective change control process exists to ensure that any proposed changes of design,  
24 layout or procedures are thoroughly evaluated to verify that they do not jeopardize contingency or  
25 emergency plans.
- 26 b. Periodic review of the contingency and emergency plans.

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1           **ANNEX II – EXAMPLE OF A RESPONSE MEMORANDUM OF UNDERSTANDING**

2   This is an example of an MOU. It might not apply to Member States where the response forces are  
3   government agencies that are mandated under law to provide response to the facility.

4   **1. Introduction**

5   This MOU outlines the agreement between the (Operator) and the (Response Forces) for terms and  
6   conditions of both parties in relation to the following:

- 7       — The (Response Forces) agrees to provide an adequate, appropriate and effective response to  
8       calls for assistance as a result of a nuclear security event.
- 9       — The (Response Forces) agrees to participate in familiarity, preparedness activities and  
10      security exercises and training.
- 11      — The (Operator) agrees to provide facilities, technical support, logistics, expertise and  
12      resources to support the (Response Forces).

13   This MOU is subject to review at the request of either party (annually or otherwise) if changes occur  
14   to the governing conditions such as operating regulations, statutory authorities or threat levels (DBT).

15   **2. Points of Contact**

16   The (Operators designee) will be the primary facility site contact for security and issues with the  
17   (Response Forces designee). Additional points of contact would be identified between the Operator  
18   and Response Forces.

19   **3. Initial Notification**

20   *3.1. Initial notification*

21   When a security event occurs at the (Operators facility), the Central Alarm Station (CAS) will follow  
22   the contingency plan to contact the (Response Forces) by the agreed upon communication  
23   arrangements.

24   *3.2. Response Forces arrival*

25   Following communication from the CAS, the (Response Forces) will deploy, in a timely manner,  
26   appropriate and adequate response personnel to the facility to assist the response personnel with the  
27   security event.

1 **4. Responsibilities**

2 *4.1. Operators*

3 The (Operator) agrees to provide facilities, technical support, logistics, expertise and resources to  
4 support the (Response Forces). This may include, but not limited to:

- 5 (a) Information regarding any radiological and technical issues;
- 6 (b) On-site protection of workers;
- 7 (c) Site maps and facility floor plans;
- 8 (d) Escorts;
- 9 (e) Compatible communications; and
- 10 (f) Logistical support, such as marshalling areas, briefing areas, power supplies,
- 11 (g) Accountability of personnel arriving and working on the site at all times,etc.

12 *4.2. Response Forces*

13 The (Response Forces) agrees to provide minimum of [X] personnel and equipment at the request of  
14 the Operator to assist the facility during a nuclear security event. Agreements on the expected  
15 numbers and estimated time of arrival of each Response Force's primary response and supporting  
16 response elements would be specified in an Annex to the MOU and may include the following (but  
17 not limited to these):

- 18 (a) Tactical response units;
- 19 (b) Crisis negotiator;
- 20 (c) Canine team;
- 21 (d) Explosive disposal;
- 22 (e) Emergency services (e.g. local law enforcement, medical services, hazmat teams);
- 23 (f) Forensic identifications services;
- 24 (g) Technical traffic collision investigation;
- 25 (h) Dangerous goods coordinator;
- 26 (i) Any other service provided by the Response Forces and/or supporting units deemed  
27 necessary by the Incident Commander.

28 *4.2. First Response Forces at the facility*

29 Upon arrival the first Response Forces would receive a reception brief and determine the appropriate  
30 response actions in coordination with the Incident Commander.



1 **5. Security Exercises**

2 *5.1. Exercises*

3 The (Operator) would invite the Response Forces to participate in security exercises and drills as part  
4 of their exercise programme, at frequency of [X] every [X] years. The Response Forces would  
5 continue, as agreed upon, to practice command and control of the response.

6 The (Operator) would be responsible for planning security exercises, developing the exercise  
7 scenarios and coordinating the exercise. The Response Forces would appoint a liaison officer to assist  
8 in the development and coordination of Response Forces involvement in the exercises.

9 *5.2. Facility visits by Response Forces*

10 The (Operator) would invite Response Forces personnel to conduct visits of the facility to establish  
11 and maintain a level of familiarity with respect to response logistics, plant layout, operations and  
12 equipment.

13 **6. Communications**

14 *6.1. Communication resources*

15 The (Operator) and Response Forces agree to have interoperable equipment to facilitate effective  
16 communications during security events at the facility, such as:

- 17 (a) Direct phone line between the command and control elements;
- 18 (b) Compatible command centre radios and frequencies;
- 19 (c) Compatible portable security radios and frequencies; and
- 20 (d) Other compatible communication devices.

21 *6.2. Maintenance of communications equipment*

22 The following off-site communication resources will be maintained by facility:

- 23 (a) Dedicated direct telephone link between the CAS and Response Forces;
- 24 (b) Radio communication between the facility CAS and Response Forces.

25 *6.3. Communications testing*

26 The (Operator) would test communications with the Response Forces on a regular basis. If a test is  
27 not initiated by the (Operator), the Response Forces would contact the (Operator) and request that the  
28 test be conducted.

1 **9. Limitations of Liability, Indemnification and Insurance**

2 *9.1. Response Forces*

3 The Response Forces shall not be liable in any manner whatsoever to the facility, which includes all  
4 of its respective staff, servants and agents or their successors and assign for any claim, including a  
5 claim by any third party against the facility, its staff or agents, unless it was caused by negligence of  
6 an employee or agent of the Response Forces .

7 *9.2. Facility*

8 The facility does hereby indemnify the Response Forces , its staff and agents, including their  
9 successors and assign against all costs, losses, expenses or liabilities incurred as a result of a claim or  
10 proceeding related to or arising from Response Forces performance of this agreement unless it was  
11 caused by negligence or wilful misconduct of an employee or agent of the Response Forces .  
12 Notwithstanding the foregoing, in no event shall the facility be liable for indirect or consequential  
13 damages.

14 The facility and the Response Forces would ensure that they have appropriate general liability  
15 insurance.

16 **10. Termination**

17 Either party may terminate this MOU at any time, without fault and without liability, upon [X] weeks  
18 written notice of termination.

19 Termination of this MOU does not affect any other relationship or obligations between the parties.

20 **11. Agreement**

21 This MOU constitutes the entire agreement between the parties. There are no other agreements,  
22 undertakings, representatives or warranties, collateral, oral or otherwise, related to the subject matter  
23 herein.

24

1 **IN THE WITNESS WHEREOF** the parties have executed this agreement.

2 **DATED AT** \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, year

3 Signature: \_\_\_\_\_

4 Name: \_\_\_\_\_

5 Chief of Response Forces

6 (Response Forces Pursuant to Delegated Authority)

7 **DATED AT** \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, year

8 Signature: \_\_\_\_\_

9 Name: \_\_\_\_\_

10 Facility Operator

11 Note – The MOU would include an Appendix detailing the relevant definitions used in the MOU.

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## ANNEX III – EXAMPLE OF IMPLEMENTING PROCEDURE

This example, of a bomb warning procedures, is provided as an example of how to use this planning tool to develop written procedures that implement the requirements of the contingency plan.)

### **Bomb Warning Procedure**

#### **1. Purpose**

This purpose of this procedure is to establish and maintain predetermined actions that implement the requirements of contingency plan response personnel during a nuclear security event for a **(Bomb Warning)**.

#### **2. Event Description**

Bomb warnings may be expressed by telephone, by mail (letter or email), by a hand delivered message, or by some other means. Warnings may be given directly or indirectly through a law enforcement agency, mass media organization, or some other third party. Warnings also may be received and communicated by plant personnel, authorities' offsite, or other third parties who would notify security.

#### **3. Objectives of the Contingency Response**

- Validate the warning
- Mitigate the warning
- Minimize potential consequences of the warning
- Inform all decision makers of the event

#### **4. Decisions/Actions**

- Gather and evaluate information from the bomb warning communication.
- Notify appropriate entities.
- Attempt to locate suspected bomb(s).
- If bomb is confirmed, take action to mitigate potential consequences.
- If bomb is not confirmed, begin taking actions to return to normal operations.
- Terminate event once the facility is determined to be safe.

#### **5. Responsible Personnel**

- **Central Alarm Station (CAS) Operator**

- Initial receipt or notification of bomb warning
- Notify security management
- Notify facilities operations

- 1 — Deploy response personnel
- 2 — If a bomb is discovered, transition to the “Discovery of explosives” procedure
- 3 • **Guards/Response Forces**
- 4 — Upon request, conduct search for suspected bomb(s)
- 5 — If a bomb is confirmed, cordon, communicate location and details to CAS, and await
- 6 — directions
- 7 — Execute ongoing tactical operations
- 8 — If a bomb is not discovered, communicate to CAS, and await directions
- 9 • **Security Management**
- 10 — Assess warning, and if required direct CAS to deploy guards to conduct search.
- 11 — Direct CAS to notify facilities operations
- 12 — Receive search results.
- 13 — Report results to facility operations.
- 14 — Advise facility operation on recommendations.
- 15 — Advise on ongoing tactical operations
- 16 — If a bomb is discovered, transition to the “Discovery of explosives” procedure
- 17 • **Facility Operations**
- 18 — Receive briefing from security management or CAS
- 19 — If a bomb is not discovered, await recommendations from security management.
- 20 — If a bomb is confirmed, await recommendations from security management.
- 21 — If a bomb is confirmed, consider secondary hazards (e.g., effects to safety equipment or
- 22 — personnel).
- 23 — Activate emergency plan.
- 24 **6. Termination of Event**
- 25 — Security Management will make recommendations to facility operations to terminate event if
- 26 — no bomb was discovered
- 27 — Facility operations will deliver a strategy to return to normal operations
- 28 **7. Data and Supporting Guidance**
- 29 — Bomb Warning Checklist

- 1 — “Discovery of explosives” nuclear security event procedure
- 2 — Emergency evacuation plan for bomb warning
- 3 — Facility maps and floor plans
- 4 — Off-site response contact list
- 5 — On-site response contact list
- 6 — On-site emergency plan

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**ANNEX IV – EXAMPLE OF ACTION MATRIX**

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This is provided as an example of an action matrix to identify the steps to be taken for responding to initiating events. The action matrix could also be represented by way of flow diagrams, computer modelling, or equivalent process.

<b>Initiating Event No. 1: Bomb Warning</b>				
<b>Event Description:</b> Bomb warnings may be expressed by telephone, by mail (letter or email), by a hand delivered message, or by some other means. Warnings may be given directly or indirectly through a law enforcement agency, mass media organization, or some other third party. Warnings also may be received and communicated by plant personnel, authorities’ offsite, or other third parties who would notify security.				
<b>Responsible Personnel</b>	<b>CAS</b>	<b>Guards/ Response Forces</b>	<b>Security Management</b>	<b>Facility Operations</b>
<b>Actions</b>	Initial receipt or notification of bomb warning	Upon request, conduct search for suspected bomb(s)	Assess warning, and if required direct CAS to deploy guards to conduct search.	Receive briefing from security management or CAS
	Notify security management	If a bomb is confirmed, cordon, communicate location and details to CAS, and await directions	Direct CAS to notify facilities operations	If a bomb is not discovered, await recommendations from security management.
	Notify facilities operations	Execute ongoing tactical operations	Receive search results.	If a bomb is confirmed, await recommendations from security management.
	Deploy response personnel	If a bomb is not discovered, communicate to CAS, and await directions	Report results to facility operations.	If a bomb is confirmed, consider secondary hazards (e.g., effects to safety equipment or personnel).
	If a bomb is discovered, transition to the “Discovery of explosives” procedure		Advise facility operation on recommendations. Advise on ongoing tactical operations If a bomb is discovered, transition to the “Discovery of explosives” procedure	Activate emergency plan.
<b>Supporting Guidance</b>	Bomb Warning Checklist	“Discovery of explosives” nuclear security event procedure	Bomb Warning Checklist	On-site emergency plan
	“Discovery of explosives” nuclear security event procedure	Emergency evacuation plan for bomb warning	“Discovery of explosives” nuclear security event procedure	Emergency evacuation plan for bomb warning
	Emergency evacuation plan for bomb warning	Facility maps and floor plans	Emergency evacuation plan for bomb warning	Facility maps and floor plans
	Facility maps and floor plans	Specific guard response procedures	Facility maps and floor plans	Off-site response contact list
	Off-site response contact list		Off-site response contact list	On-site response contact list
On-site response contact list		On-site response contact list		

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