

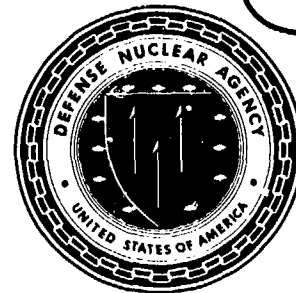
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**Nuclear Employment Planning
Volume II—Functional Description**

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13. ABSTRACT (Maximum 200 words) This report contains four volumes, Main Report (Volume I), Functional Description (Volume II), Data Flow Diagrams (Volume III), and Data Dictionary (Volume IV). The objective of this report is to define user planning requirements for tactical nuclear weapons employment. It identifies the nuclear planning employment functions at corps and division echelons, the interfaces among these functions and the interfaces between these functions and other command and control (C2) functions. It is intended that it be used as the basic requirements document for the automation of the nuclear employment planning process as part of the Army Tactical Command and Control System (ATCCS). The Functional Description (Volume II) of the report provides a menu of functions (processes) which, depending on the phase of nuclear employment must be performed to plan for the use of nuclear weapons at corps and division echelons. The processes have been decomposed to five levels of resolution. The Data Flow Diagrams (Volume III), depict the flow of process inputs and outputs, both among the planning processes themselves, as well as between the nuclear employment planning processes and organizational C2 nodes and entities performing other C2 processes. The Data Dictionary (Volume IV), provides a single place to find the full names and definitions of the data terms used in the Functional Description and Data Flow Diagrams. Mission Thread Diagrams found in Volume I (Main Report) supplement the Data Flow Diagrams in that they show the sequence of processes as they are performed in one phase of nuclear planning. Commander's guidance as it applies to nuclear employment planning is discussed separately in the Main Report and interwoven throughout the data flow diagrams, functional descriptions and the data dictionary. All of these elements make up this report and must be viewed together to get the overall picture of the Operational Nuclear Employment Planning Process.				
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SUMMARY

GENERAL.

This is Volume II (Functional Description) of a four- volume report on nuclear employment planning prepared for the Defense Nuclear Agency by LB&M Associates, Inc. Volume I (Main Report) provides additional discussion on the development of the Functional Description. Volume III (Data Flow Diagrams) depicts the data flow between the processes described in the Functional Description. Volume IV (Data Dictionary) defines and provides relationships for all data contained in the Functional Description. Together with Volumes III and IV, the Functional Description serves as an A-type requirements document for nuclear weapons employment planning at the corps and division levels.

The Functional Description is a menu of functions which must be performed during one or more of the phases of nuclear employment planning. Functions are those actions which are performed to accomplish nuclear weapons employment planning at the corps and division levels. The Functional Description contained in this volume begins with Process 1. on Page 1 and ends with Process 4.4.3.3. on Page 162. The Functional Description is organized in four parts, each part containing the functional decomposition of a top-level nuclear employment planning function as follows:

- Acquire, Maintain, And Transmit Information (Process 1.0.) Section 1
- Assess Situation (Process 2.0.) Section 2
- Determine Concept Of Nuclear Employment (Process 3.0.) Section 3
- Direct Nuclear Employment Operations (Process 4.0.) Section 4

Within each of the four Sections the Functional Description processes are structured in hierarchical fashion with the top level (1.0., 2.0., etc.) being the most general function. Each of the four top-level functions has been decomposed into its constituent, subordinate functions. Subordinate functions are further decomposed into their constituent functions and so on to the lowest level of detail. Figure 1 presents a view of the structure of this functional decomposition. Each function is decomposed to a maximum of five levels. Not all functions are decomposed to the fifth level, as some functions could be described in sufficient detail in four levels or, in one case (Process 4.3.2.), three levels.

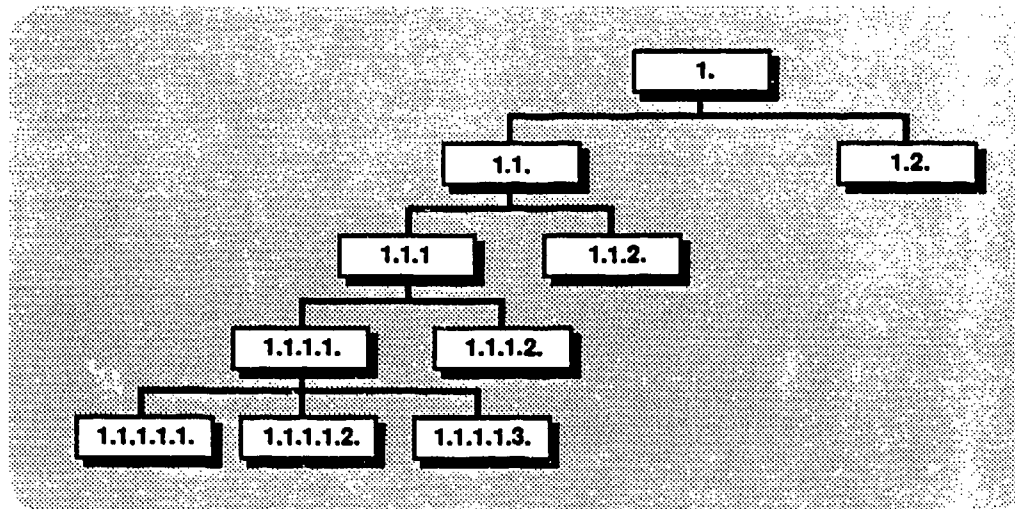


Figure 1. Structure of functional hierarchy.

EXPLANATION OF ENTRIES.

As illustrated in Figure 2, each process is addressed in the Functional Description in a format which includes the process title followed by five paragraphs which provide information concerning the process.

<p>4.1.1.3 Consider Preclusion Information</p> <p>PROCESS DESCRIPTION: To adjust weapon aimpoints and/or yields based on requirements to preclude collateral damage and obstacles and to conform to troop safety requirements. (FM 6-20-30, p. C-6-7)</p> <p>INPUTS: Weapons, yields, and heights of burst for each identified target; Guidance on preclusion of collateral damage and obstacles; Guidance on troop safety requirements; Maneuver unit locations; Commander's course of action description.</p> <p>OUTPUTS: Proposed nuclear package/subpackage. (Requests for friendly unit current and projected locations may be directed to the "Determine information Needs" function.)</p> <p>LOCATION: Fire support cell, main command post.</p> <p>PROCESSOR: Target analyst.</p>

Figure 2. Sample process entry.

PROCESS DESCRIPTION.

The first paragraph is the process description which explains what the process entails. Following the explanation is the doctrinal reference from which the process was extracted or inferred. Inferred means that, within the context of this analysis, a stated

generic command and control function was restructured so as to be directly related to nuclear weapons employment. For example, from the general command and control function IDENTIFY SPECIFIED TASKS, the process IDENTIFY SPECIFIED NUCLEAR TASKS was inferred.

INPUTS.

Nuclear employment process inputs are those elements of data required in order to perform the process described. Process inputs come from the commander, from other command echelons, from stored data (such as doctrine and standing operating procedures), from the performance of general command and control processes, and from the performance of other nuclear weapons employment planning processes. As nuclear employment planning functions are decomposed, their inputs and outputs are also decomposed into their respective constituent elements.

OUTPUTS.

Nuclear employment process outputs are the data generated as a result of performing the process described. Process outputs may become inputs or products to other command echelons, to general command and control processes, or to other nuclear weapons employment planning processes. The origins of process inputs and the destinations of process outputs are shown in the Data Flow Diagrams in Volume III. Hierarchical relationships of data and data definitions are provided in the Data Dictionary (Volume IV).

LOCATION.

The Location entry indicates where, within a force command post, the nuclear employment planning function is performed. In some instances more than one location is indicated. When more than one location is listed it is generally due to different staff officers or staff sections performing like functions. For example, the process IDENTIFY SPECIFIED NUCLEAR TASKS normally would be performed by the majority of primary staff officers at their respective command post cells.

PROCESSOR.

The Processor entry indicates the individual(s) who perform(s) the process described. Doctrinal references such as field manuals tend to attribute the performance of functions to a primary or special staff officer. The individual who performs a specific function will often be a matter of unit or staff section standing operating procedure. Consequently, in most cases in the Functional Description, a primary or special staff officer is shown as Processor, when in fact a subordinate within the respective section may actually perform the function.

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SECTION 1

PLAN FOR THE EMPLOYMENT OF NUCLEAR WEAPONS

1 Acquire, Maintain, And Transmit Information.

PROCESS DESCRIPTION: To gather information on nuclear employment-related mission requirements, the friendly and enemy situation and status, and the environment; to secure and maintain nuclear employment-related information in useable form; and to disseminate nuclear employment-related information. (AC2MP, pp. 2-4, 2-5)

INPUTS: External reports; Estimates; Standard procedures; Doctrine; Higher headquarters directives; Formatted directives; Concept for the employment of nuclear weapons; Assessment of the situation; Nuclear employment package/subpackage information; Information queries; Formatted requests/reports.

OUTPUTS: Reports/requests; Directives.

LOCATION: Command posts.

PROCESSOR: Commander and staff.

1.1 Manage Communications.

PROCESS DESCRIPTION: To provide for the establishment, security, and control of the means and modes of communications required for the timely and effective employment of nuclear weapons. (TRADOC Pam 11-9, p. B-7)

INPUTS: Higher headquarters orders/plans; External status reports; Analysis of the nuclear employment aspects of the mission; Commander/staff officer estimates; Authorization documents; SOP's; Communications doctrine; Nuclear weapons employment doctrine.

OUTPUTS: Nuclear weapons employment input to the communications-electronics annex.

LOCATION: Main command post.

PROCESSOR: Commander and staff.

1.1.1 Establish Communication System.

PROCESS DESCRIPTION: To plan the emplacement of the physical means for communicating nuclear employment-related information. (FM 100-30, p. 4-16)

INPUTS: Tactical SOP on communications; Communications-electronics estimate; Staff and subordinate headquarters planning and preparation time; Tables of organization and equipment; Communications unit status reports; Intelligence estimate; Higher headquarters OPSEC annex; Higher headquarters communications-electronics annex.

OUTPUTS: Nuclear weapons employment input to the communications system establishment plan.

LOCATION: Telecommunications, fire support, and plans cells, main command post.

PROCESSOR: G3, FSCoord, SigO.

1.1.1.1 Establish Communication Means.

PROCESS DESCRIPTION: To plan the emplacement of the means (radio, wire, messenger, etc.) through which nuclear employment-related communications will occur. (TRADOC Pam 11-9, p. B-7)

INPUTS: Enemy intelligence collection capabilities; Terrain and weather analysis; Number and type radios assigned; Wire and cable means assigned; Communications unit personnel status; Operational availability of communication means; Higher headquarters available communications means; Order/plan preparation time; Comparison of C-E courses of action; Tactical SOP on use of communications means in certain tactical situations; Tactical SOP on standard radio nets.

OUTPUTS: Nuclear weapons employment requirements for the emplacement of communications means.

LOCATION: Telecommunications, fire support, and plans cells, main command post.

PROCESSOR: G3, FSCoord, SigO.

1.1.1.1.1 Determine Communication Means Requirements.

PROCESS DESCRIPTION: To determine the specific communication means required for nuclear weapons employment planning by examining the needs of staff planners in terms of range, traffic volume, speed, and transmission security. (Derived)

INPUTS: Enemy SIGINT capabilities; Effects of terrain on communications; Effects of weather on communications; Time available for emplacement of communications; Communications requirements for each nuclear weapons-supported course of action; Tactical SOP on use of communication means in certain tactical situations; Tactical SOP on standard radio nets for nuclear weapons communications.

OUTPUTS: Type communication means required for nuclear employment communications.

LOCATION: Telecommunications, fire support, and plans cells, main command post.

PROCESSOR: G3, FSCoord, SigO.

1.1.1.1.2 Determine Communication Means Available.

PROCESS DESCRIPTION: To determine the communications means available for use in nuclear weapons employment planning by identifying, from the total force capability, those resources which are dedicated to other purposes and those resources which can accommodate additional (nuclear employment) requirements. (Derived)

INPUTS: Number and type radios assigned; Wire and cable means assigned; Higher headquarters available communication means; Tactical SOP on conventional radio net requirements; Communications personnel available to establish and maintain communication means; Operational availability of communication means.

OUTPUTS: Availability of communication means to support nuclear employment operations.

LOCATION: Telecommunications cell, main command post.

PROCESSOR: SigO.

1.1.1.1.3 Specify Nuclear Employment Communication Means.

PROCESS DESCRIPTION: To match nuclear employment communications requirements to available communications means by selecting the combination of means which satisfies planning needs and maximizes the nuclear employment communications capability. (Derived)

INPUTS: Type communication means required for nuclear employment communications; Availability of communication means to support nuclear employment operations.

OUTPUTS: Plan for allocation of communication means to support nuclear employment operations.

LOCATION: Telecommunications cell, main command post.

PROCESSOR: SigO.

1.1.1.2 Establish Communication Modes.

PROCESS DESCRIPTION: To plan the emplacement of the modes (multichannel, tactical satellite, combat net radio) for receiving and transmitting nuclear weapons employment information. (TRADOC Pam 11-9, p. B-7)

INPUTS: Enemy intelligence collection capabilities; Terrain and weather analysis; Number and types of radios assigned; Operational availability of communication modes; Order/plan preparation time; Comparison of C-E courses of action; Tactical SOP on use of communications modes in certain tactical situations; Tactical SOP on standard radio nets.

OUTPUTS: Nuclear weapons employment requirements for the emplacement of communications modes.

LOCATION: Telecommunications, fire support, and plans cells, main command post.

PROCESSOR: G3, FSCoord, SigO.

1.1.1.2.1 Determine Communication Modes Requirements.

PROCESS DESCRIPTION: To determine the specific communication modes required for nuclear weapons employment planning by examining the needs of staff planners in terms of range, traffic volume, speed, and transmission security. (Derived)

INPUTS: Enemy SIGINT capabilities; Effects of terrain on communications; Effects of weather on communications; Time available for emplacement of communications; Communications requirements for each nuclear weapons-supported course of action; Tactical SOP on use of communication modes in certain tactical situations; Tactical SOP on standard radio nets for nuclear weapons communications.

OUTPUTS: Type communication modes required for nuclear employment communications.

LOCATION: Telecommunications, fire support, and plans cells, main command post.

PROCESSOR: G3, FSCoord, SigO.

1.1.1.2.2 Determine Communication Modes Available.

PROCESS DESCRIPTION: To determine the communications modes available within selected means by identifying those modes which are dedicated to other purposes and those which can accommodate additional (nuclear employment) requirements. (Derived)

INPUTS: Number and type radios assigned; Tactical SOP on conventional radio net requirements; Communications personnel available to establish and maintain communication modes; Operational availability of communication modes.

OUTPUTS: Availability of communication modes to support nuclear employment operations.

LOCATION: Telecommunications cell, main command post.

PROCESSOR: SigO.

1.1.1.2.3 Specify Nuclear Employment Communication Modes.

PROCESS DESCRIPTION: To match nuclear employment communications requirements to available communications modes by selecting the combination of modes which satisfies planning needs and maximizes the nuclear employment communications capability. (Derived)

INPUTS: Plan for allocation of communication means to support nuclear employment operations; Type communication modes required for nuclear employment communications; Availability of communication modes to support nuclear employment operations.

OUTPUTS: Plan for allocation of communication modes to support nuclear employment operations.

LOCATION: Telecommunications cell, main command post.

PROCESSOR: SigO.

1.1.2 Control Communications.

PROCESS DESCRIPTION: To institute procedures governing the use and security of the communication system in communicating nuclear weapons employment information. (FM 24-22, p. 2-3)

INPUTS: Tactical SOP on communications; Higher headquarters communications- electronics annex; Doctrine on communications management; Higher headquarters OPSEC annex; Higher headquarters deception annex; Higher headquarters communications instructions; Nuclear weapons security doctrine.

OUTPUTS: Methods and procedures for nuclear weapons employment communications.

LOCATION: Telecommunications, fire support, and plans cells, main command post.

PROCESSOR: SigO, FSCoord, G3.

1.1.2.1 Establish Communications Usage Procedures.

PROCESS DESCRIPTION: To establish the priorities and channels for the use of communication modes and the transmission of nuclear-related information. (FM 24-22, pp. 5-17 to 5-19)

INPUTS: Tactical SOP on standard radio nets; Enemy intelligence collection capabilities; Higher headquarters nuclear employment request/authorization channels; Doctrine on communications management planning; Current communications-electronics operating instructions; Deception communications requirements.

OUTPUTS: Communications channels for nuclear weapons-related communications; Nuclear weapons communications priorities.

LOCATION: Telecommunications, fire support, and plans cells, main command post.

PROCESSOR: SigO, FSCoord, G3.

1.1.2.1.1 Establish Emergency Action Message Network.

PROCESS DESCRIPTION: To assign stations on the emergency action network based on the processes performed and the information required by command and staff nodes. (FM 25-50, p. C-8)

INPUTS: Enemy SIGINT capabilities; Tactical SOP on standard radio nets for nuclear weapons communications; Higher headquarters nuclear employment request/authorization channels; Doctrine on establishment of emergency action nets; Available call signs, suffixes, and frequencies; Available field telephone designators and numbers; Deception communication requirements.

OUTPUTS: Plan for establishment of emergency action network.

LOCATION: Telecommunications, fire support, and plans cells, main command post.

PROCESSOR: SigO, FSCoord, G3.

1.1.2.1.2 Establish Nuclear Employment Communication Priorities.

PROCESS DESCRIPTION: To determine the relative priority nuclear employment communications will have on communication modes which are not dedicated to nuclear employment by examining and prioritizing the various types of communications planned for each such mode. (FM 24-22, pp. 5-17 to 5-19)

INPUTS: Tactical SOP on standard radio nets for nuclear weapons communications; Doctrine on assignment of communication priorities; Deception communications requirements.

OUTPUTS: Nuclear weapons communications priorities.

LOCATION: Fire support and plans cells, main command post.

PROCESSOR: FSCoord, G3.

1.1.2.2 Provide For Security.

PROCESS DESCRIPTION: To provide for the emplacement of security devices and to establish security procedures for nuclear weapons employment communication modes. (FM 100-50, pp. 2-1 to 2-4)

INPUTS: Tactical SOP on emission security; Current communications-electronic operating instructions; Doctrine on security of nuclear-related materials and information; Enemy intelligence collection capabilities.

OUTPUTS: Physical security procedures for nuclear weapons-related information and communications materials; Emission security procedures for nuclear weapons-related communications; Nuclear weapons emergency action procedures; Plan for the emplacement of emergency action materials.

LOCATION: Telecommunications, plans, fire support, and intelligence cells, main command post.

PROCESSOR: SigO, FSCoord, G2, G3.

1.1.2.2.1 Plan Emplacement Of Emergency Action Materials.

PROCESS DESCRIPTION: - specify the locations of and access to nuclear employment emergency action materials. (Derived)

INPUTS: EMAS/NRAS physical security requirements; Physical security requirements for transport and storage of SAS-related materials; Sealed authentication system authentication requirements.

OUTPUTS: Plan for emplacement of emergency action materials.

LOCATION: Fire support, plans, and intelligence cells, main command post.

PROCESSOR: FSCoord, G3, G2.

1.1.2.2.2 Plan Safeguards For Emergency Action Materials.

PROCESS DESCRIPTION: To specify the safeguards for nuclear weapons sealed authentication system (SAS) materials and related nuclear weapons employment information at planning sites and while in transit. (Derived)

INPUTS: Emission security requirements for transmission of SAS-related information; Physical security requirements for transport and storage of SAS-related materials; Enemy SIGINT capabilities; Enemy reconnaissance capabilities.

OUTPUTS: Physical security procedures for SAS-related materials.

LOCATION: Fire support, plans, and intelligence cells, main command post.

PROCESSOR: FSCoord, G3, G2.

1.1.2.2.3 Plan Emplacement Of COMSEC Materials.

PROCESS DESCRIPTION: To specify the nuclear employment planning nodes at which communications security and encryption devices are needed based on the nature of employment processes performed at the node and the data transferred in and out of the node. (FM 24-22, pp. 5-20, 5-21)

INPUTS: Enemy SIGINT capabilities; Current numerical cipher/authentication system; Plan for allocation of communication means to support nuclear employment operations; Tactical SOP on emission security.

OUTPUTS: Plan for emplacement of COMSEC materials.

LOCATION: Telecommunications and plans cells, main command post.

PROCESSOR: SigO, G3.

1.1.2.2.4 Specify Emergency Action Procedures.

PROCESS DESCRIPTION: To specify the procedures for transmitting, receiving, and authenticating nuclear control orders. (FM 100-50, p. 2-1)

INPUTS: Current numerical cipher/authentication system; EMAS/NRAS authentication requirements; Tactical SOP on emission security; Plan for emplacement of emergency action materials; Plan for emplacement of COMSEC materials.

OUTPUTS: Emergency action procedures; Emission security procedures for nuclear weapons-related communications.

LOCATION: Telecommunications and fire support cells, main command post.

PROCESSOR: SigO, FSCoord.

1.2 Monitor Situation.

PROCESS DESCRIPTION: To continually observe battlefield activities in order to develop an accurate portrayal of the situation. (ATCCS FD, Vol III, Book 1, Tab 2, p.29)

INPUTS: External situation reports; External status reports; Higher headquarters orders/plans; Nuclear weapons employment input to the communications-electronics annex; Higher headquarters authorizations; Communications doctrine; Intelligence doctrine; Fire support doctrine; Regulations; Authorization documents; Nuclear weapons employment doctrine; Requests for situation update; Requests for status update; SOP's.

OUTPUTS: Collated information on the current situation; Formatted situation reports/requests; Formatted status reports.

LOCATION: Main, tactical, and rear command posts.

PROCESSOR: Commander and staff.

1.2.1 Receive Information.

PROCESS DESCRIPTION: To accept and record nuclear employment-related information from outside the nuclear weapons employment planning system. (TRADOC Pam 11-9, p. B-7)

INPUTS: Nuclear delivery unit status reports; Nuclear delivery unit situation reports; Communications unit status reports; Maneuver unit situation reports; Maneuver unit status reports; Combat service support unit status reports; Combat service support unit situation reports; Target acquisition unit status reports; Target acquisition unit situation reports; Subordinate unit intelligence reports; Higher headquarters situation messages; Adjacent headquarters situation messages; Host nation reports; Higher headquarters fire support annex; Higher headquarters intelligence annex; Higher headquarters OPSEC annex; Higher headquarters deception annex; Higher headquarters order/plan execution paragraph; Higher headquarters administration/logistics directives; Higher headquarters task organization; Higher headquarters communications-electronics annex; Higher headquarters civil-military operations annex; Higher headquarters communications instructions; Nuclear weapons employment political guidance; Nuclear employment authorization; Nuclear employment request; Methods and procedures for nuclear employment communications; Tactical SOP on communications.

OUTPUTS: Information accepted and recorded.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.1.1 Accept Information.

PROCESS DESCRIPTION: To acquire information by hearing, seeing, reading, or any other method. (ATCCS FD, Vol III, Book 1, Tab 2, p. 2)

INPUTS: Delivery unit PNL status; Delivery unit equipment status; Delivery unit supply status; Delivery unit personnel status; Delivery unit locations; Delivery unit activities; Maneuver unit equipment status; Maneuver unit personnel status; Maneuver unit locations; Maneuver unit activities; Target acquisition unit equipment status; Target acquisition unit personnel status; Target acquisition unit locations; Target acquisition unit activities; Transportation unit equipment status; Transportation unit personnel status; Ordnance unit weapon status; Ordnance unit storage capabilities; Communications unit personnel status; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Enemy capabilities; Adjacent unit locations; Adjacent unit activities; Civilian populace locations; Civilian population movements; Civilian cultural resource locations; Civilian industrial resource locations; Civilian transportation resource status; Refugee status; Higher headquarters priority of nuclear fires; Higher headquarters PNL allocations; Higher headquarters nuclear support plan; Higher headquarters artillery support plan; Higher headquarters air support plan; Summary of the enemy situation; Higher headquarters counterintelligence instructions; Enemy order of battle; NASP locations; Ordnance unit locations; Air resupply procedures; Personnel strengths and replacements; Enemy intelligence collection capabilities; Higher headquarters signal security measures; Higher headquarters physical security measures; Higher headquarters deception story; Higher headquarters deception objective; Higher headquarters deception implementing schedule; Higher headquarters nuclear employment authorization; Subordinate headquarters nuclear employment request; Deception communications requirements; Higher headquarters concept of nuclear operations; Assigned organizational mission; Adjacent unit missions; Higher commanders' intent; Higher headquarters coordinating instructions; List of supporting delivery units; List of supporting combat service support units; List of supporting target acquisition units; Higher headquarters available communications means; Communications-electronics operating instructions; Nuclear employment authorization time window; Nuclear yields authorized for employment; Nuclear delivery systems authorized for employment; Nuclear detonation data.

OUTPUTS: Information accepted.

LOCATION: All cells, main, tactical, rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.1.2 Decrypt Signal.

PROCESS DESCRIPTION: To decrypt the audio or digital signal on which information has been accepted. (Derived)

INPUTS: Information accepted; Emission security procedures for nuclear weapons-related communications.

OUTPUTS: Decrypted information.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.1.3 Record Information.

PROCESS DESCRIPTION: To register and retain incoming information for subsequent processing. (ATCCS FD, Vol III, Book 1, Tab 2, p. 2)

INPUTS: Decrypted information; Tactical SOP on information recording procedures.

OUTPUTS: Information recorded.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.2 Request Information.

PROCESS DESCRIPTION: To determine the source(s) of required nuclear employment-related information and initiate requests for that information. (ATCCS FD, Vol III, Book 1, Tab 2, p. 4)

INPUTS: Information stored in information base; Tactical SOP on communications; Tactical SOP on reports; Higher headquarters task organization; Requests for current and projected friendly situation update; Requests for current and projected enemy situation update; Requests for friendly force status update.

OUTPUTS: Formatted requests for information.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.2.1 Determine Information Needs.

PROCESS DESCRIPTION: To review information contained in the information base and information requested for use in performing nuclear employment processes in order to determine what additional information is required. (ATCCS FD, Vol III, Book 1, Tab 2, p. 4)

INPUTS: Information stored in information base; Requests for friendly unit current locations; Requests for friendly unit projected locations; Requests for friendly unit current activities; Requests for friendly unit projected activities; Requests for enemy current locations; Requests for enemy current activities; Requests for enemy projected locations; Requests for enemy projected activities; Requests for terrain and weather data; Requests for friendly unit equipment status; Requests for friendly unit personnel status; Requests for friendly unit supply status; Requests for civilian population status.

OUTPUTS: Information needs.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.2.1.1 Examine Requests For Information.

PROCESS DESCRIPTION: To determine what information is required in the planning of nuclear weapons employment by examining the requests for information submitted by nuclear employment processors. (Derived)

INPUTS: Requests for friendly unit current locations; Requests for friendly unit projected locations; Requests for friendly unit current activities; Requests for friendly unit projected activities; Requests for enemy current locations; Requests for enemy current activities; Requests for enemy projected locations; Requests for enemy projected activities; Requests for terrain and weather data; Requests for friendly unit equipment status; Requests for friendly unit personnel status; Requests for friendly unit supply status; Requests for civilian population status.

OUTPUTS: Review of outstanding requests for information.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.2.1.2 Examine Information Base.

PROCESS DESCRIPTION: To conduct a review of the information stored in an information base in order to determine what information is available in storage. (Derived)

INPUTS: Information stored in information base.

OUTPUTS: Review of information stored in information base.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.2.1.3 Identify Required Information.

PROCESS DESCRIPTION: To determine what information is required from external sources by comparing what information is available in the information base with the information requests of nuclear employment processors. (Derived)

INPUTS: Review of outstanding requests for information; Review of information stored in information base.

OUTPUTS: Information needs.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.2.2 Determine Source Of Information.

PROCESS DESCRIPTION: To identify the agency(ies) from which needed information can be acquired. (ATCCS FD, Vol III, Book 1, Tab 2, p. 4)

INPUTS: Information stored in information base; Tactical SOP on report frequencies; Tactical SOP on report formats; List of supporting delivery units; List of supporting combat service support units; List of supporting target acquisition units; Information needs.

OUTPUTS: Identified source(s) of information.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.2.3 Prepare Information Request.

PROCESS DESCRIPTION: To format a request for information to identified source(s). (ATCCS FD, Vol III, Book1, Tab 2, p.4)

INPUTS: Information needs; Identified source(s) of information; Tactical SOP on information request formats.

OUTPUTS: Formatted requests for status update; Formatted requests for situation update.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.3 Maintain Information.

PROCESS DESCRIPTION: To process, distribute, and store nuclear employment-related information in a form that enables it to be used in decision-making. (TRADOC Pam 11-9, p. B-7)

INPUTS: Information accepted and recorded; Tactical SOP on communications; Tables of organization and equipment; Doctrine on information management; Methods and procedures for nuclear employment communications; Doctrine on communications management; Nuclear weapons targeting doctrine; Nuclear weapons logistics doctrine; Nuclear weapons security doctrine; Nuclear weapons employment analysis procedures; Sensor doctrine; Nuclear delivery system doctrine; Nuclear weapons employment regulations; Nuclear security regulations; Tactical SOP on reports; Tactical SOP on warning messages; Tactical SOP on nuclear weapons employment; Tactical SOP on plan and order development; Higher headquarters communications instructions; Requests for current and projected friendly situation update; Requests for current and projected enemy situation update; Requests for friendly force status update.

OUTPUTS: Information stored in information base; Information distributed for use.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.3.1 Decode Information.

PROCESS DESCRIPTION: To convert coded information into plain text. (Derived)

INPUTS: Information recorded; Emission security procedures for nuclear weapons-related communications; Current communications-electronics operating instructions.

OUTPUTS: Decoded information.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.3.2 Process Information For Disposition.

PROCESS DESCRIPTION: To interpret information to determine what has been received and to filter out information for which there is no storage or distribution requirement. (ATCCS FD, Vol III, Book 1, Tab 2, p. 3)

INPUTS: Decoded information; Tactical SOP on information maintenance.

OUTPUTS: Information processed for storage or disposition; Information discarded.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.3.2.1 Read Information.

PROCESS DESCRIPTION: To examine recorded information by reading, scanning, or other means in order to determine its contents. (Derived)

INPUTS: Decoded information; Tactical SOP on information retention requirements.

OUTPUTS: Information processed for storage or distribution; Information for which there is no storage or distribution requirement.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.3.2.2 Discard Information.

PROCESS DESCRIPTION: To discard information which is too old for use, which duplicates information already on hand, or which is otherwise of no use to the nuclear weapons employment planning processes. (Derived)

INPUTS: Information for which there is no storage or distribution requirement.

OUTPUTS: Information discarded.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.3.3 Distribute Information.

PROCESS DESCRIPTION: To distribute processed information for use when requests for that information exist or when incoming information is addressed to a processor(s); to distribute information resident in the information base when such information is requested by a processor; and to store processed information in the information base. (Derived)

INPUTS: Information processed for storage or distribution; Information stored in information base; Tactical SOP on emission security; Tactical SOP on standard nuclear communication nets; Tactical SOP on information maintenance; Tactical SOP on information recording procedures; Tactical SOP on use of communications modes in certain tactical situations; Tactical SOP on use of communications means in certain tactical situations; Tactical SOP on standard radio nets; Doctrine on communications management planning; Information management staff responsibilities; Doctrine on information storage procedures; Number and type radios assigned; Wire and cable means assigned; Doctrine on employment request/authorization procedures; Doctrine on integration of nuclear and conventional fires; Doctrine on suitable nuclear targets; Nuclear weapons storage procedures; Nuclear weapons transportation

procedures; Nuclear weapons accountability procedures; Nuclear weapons physical protection requirements; Doctrine on protection of nuclear weapons indicators; Doctrine on security of nuclear-related materials and information; Aimpoint selection procedures; Damage estimation procedures; Yield selection procedures; Height of burst selection procedures; Doctrine on MSD protective measures; Sensor acquisition capabilities; Sensor processing time frames; Sensor tasking response times; Nuclear delivery system capabilities; Nuclear delivery system response times; Regulations on fallout preclusion; Regulations on damage to non-military resources; Tactical SOP on report frequencies; Tactical SOP on report formats; Tactical SOP on as-required report submissions; Tactical SOP on warning message formats; Tactical SOP on criteria for issue of warning messages; Tactical SOP on use of communications means/modes for warning messages; Tactical SOP on targeting procedures; Tactical SOP on nuclear employment authorization procedures; Tactical SOP on fallout preclusion; Tactical SOP on nuclear target damage criteria; Tactical SOP on preparation of nuclear packages/subpackages; Tactical SOP on approval and consolidation of nuclear packages/subpackages; Tactical SOP on staff responsibilities for order/plan development and coordination; Tactical SOP on order/plan security requirements; Tactical SOP on order/plan formats; Tactical SOP on order/plan approval procedures; Tactical SOP on order/plan preparation times; Requests for friendly unit current locations; Requests for friendly unit projected locations; Requests for friendly unit current activities; Requests for friendly unit projected activities; Requests for enemy current locations; Requests for enemy current activities; Requests for enemy projected locations; Requests for enemy projected activities; Requests for terrain and weather data; Requests for friendly unit equipment status; Requests for friendly unit personnel status; Requests for friendly unit supply status; Requests for civilian population status.

OUTPUTS: Information distributed for use; Information stored in information base.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

1.2.3.3.1 Retrieve Information.

PROCESS DESCRIPTION: To extract information from an information base in order to provide it for use in nuclear weapons employment processes. (Derived)

INPUTS: Information stored in information base.

OUTPUTS: Retrieved information.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.3.3.2 Provide Information.

PROCESS DESCRIPTION: To transfer information which has been retrieved from an information base or which has been received from external sources to other nuclear weapons employment processes. (Derived)

INPUTS: Information processed for storage or distribution; Retrieved Information (e.g. Tactical SOP on emission security; Tactical SOP on standard nuclear communication nets; Tactical SOP on information maintenance; Tactical SOP on information recording procedures; Tactical SOP on use of communications modes in certain tactical situations; Tactical SOP on use of communications means in certain tactical situations; Tactical SOP on standard radio nets for nuclear communications; Tactical SOP on conventional radio net requirements; Doctrine on communications management planning; Information management staff responsibilities; Doctrine on information storage procedures; Number and type radios assigned; Wire and cable means assigned; Doctrine on employment request/authorization procedures; Doctrine on integration of nuclear and conventional fires; Doctrine on suitable nuclear targets; Nuclear weapons storage procedures; Nuclear weapons transportation procedures; Nuclear weapons accountability procedures; Nuclear weapons physical protection requirements; Doctrine on protection of nuclear

weapons indicators; Doctrine on security of nuclear-related materials and information; Aimpoint selection procedures; Damage estimation procedures; Yield selection procedures; Height of burst selection procedures; Doctrine on MSD protective measures; Sensor acquisition capabilities; Sensor processing time frames; Sensor tasking response times; Surface nuclear delivery system capabilities; Air nuclear delivery system capabilities; Surface nuclear delivery system response times; Air nuclear delivery system response times; Regulations on fallout preclusion; Regulations on damage to non-military resources; Tactical SOP on report frequencies; Tactical SOP on report formats; Tactical SOP on as-required report submissions; Tactical SOP on warning message formats; Tactical SOP on criteria for issue of warning messages; Tactical SOP on use of communications means/modes for warning messages; Tactical SOP on targeting procedures; Tactical SOP on nuclear employment request/authorization procedures; Tactical SOP on fallout preclusion; Tactical SOP on nuclear target damage criteria; Tactical SOP on preparation of nuclear packages/subpackages; Tactical SOP on approval and consolidation of nuclear packages/subpackages; Tactical SOP on staff responsibilities for order/plan development and coordination; Tactical SOP on order/plan security requirements; Tactical SOP on order/plan formats; Tactical SOP on order/plan approval procedures; Tactical SOP on order/plan preparation times; Requests for friendly unit current locations; Requests for friendly unit projected locations; Requests for friendly unit current activities; Requests for friendly unit projected activities; Requests for enemy current locations; Requests for enemy current activities; Requests for enemy projected locations; Requests for enemy projected activities; Requests for terrain and weather data; Requests for friendly unit equipment status; Requests for friendly unit personnel status; Requests for friendly unit supply status; Requests for civilian population status.

OUTPUTS: Information distributed for use.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.3.3 Archive Information.

PROCESS DESCRIPTION: To place information in storage in an information base for later use. (Derived)

INPUTS: Information processed for storage or distribution.

OUTPUTS: Information stored in information base.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.4 Develop Reports.

PROCESS DESCRIPTION: To gather relevant information and format that information into appropriate report formats at times or under circumstances prescribed in standing operating procedures or other directives. (FM 100-15, p. 4-52)

INPUTS: Information stored in information base; Tactical SOP on reports; Higher headquarters order/plan execution paragraph.

OUTPUTS: Formatted status reports; Formatted situation reports.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

1.2.4.1 Generate Periodic Reports.

PROCESS DESCRIPTION: To develop and format nuclear weapons-related status and situation reports which are required at prescribed times. (FC 101-5-2, p. 4-53)

INPUTS: Information stored in information base; Tactical SOP on report frequencies; Tactical SOP on report formats.

OUTPUTS: Formatted periodic status reports; Formatted periodic situation reports.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

1.2.4.1.1 Examine Periodic Report Requirements.

PROCESS DESCRIPTION: To examine higher headquarters directives and standing operating procedures to identify the required information, formats, and submission times for periodic nuclear weapons employment reports. (Derived)

INPUTS: Tactical SOP on report frequencies.

OUTPUTS: Identified periodic reporting requirement.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.4.1.2 Format Periodic Reports.

PROCESS DESCRIPTION: To place nuclear weapons information in the prescribed format required for a periodic report. (Derived)

INPUTS: Identified periodic reporting requirement; Information stored in information base; Tactical SOP on report formats.

OUTPUTS: Formatted periodic status reports; Formatted periodic situation reports.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.4.2 Initiate As-Required Reports.

PROCESS DESCRIPTION: To develop and format nuclear weapons-related status and situation reports which are required based on events or changes in the battlefield situation or on specific requests. (FC 101-5-2, p. 4-54)

INPUTS: Information stored in information base; Tactical SOP on as-required report submissions; Higher headquarters coordinating instructions; Tactical SOP on report formats.

OUTPUTS: Formatted as-required status reports; Formatted as-required situation reports.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

1.2.4.2.1 Examine As-Required Report Requirements.

PROCESS DESCRIPTION: To examine higher headquarters directives and standing operating procedures to identify the required information, formats, and submission criteria for as-required nuclear weapons employment reports. (Derived)

INPUTS: Tactical SOP on report frequencies.

OUTPUTS: Identified as-required reporting requirement.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.2.4.2.2 Format As-Required Reports.

PROCESS DESCRIPTION: To place nuclear weapons information in the prescribed format required for an as-required report. (Derived)

INPUTS: Identified as-required reporting requirement; Information stored in information base; Tactical SOP on report formats.

OUTPUTS: Formatted as-required status reports; Formatted as-required situation reports.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.3 Transmit Information.

PROCESS DESCRIPTION: To distribute nuclear employment-related information to agencies external to the nuclear weapons employment planning system. (TRADOC Pam 11-9, p. B-7)

INPUTS: Formatted orders/plans; Formatted status reports; Formatted situation reports/requests; Formatted support requests; Approved nuclear weapons package/ subpackage; Nuclear weapons employment doctrine; SOPs; Collated information on the current situation; Communications support plan for nuclear weapons employment.

OUTPUTS: Situation reports/requests; Status reports; Orders/plans.

LOCATION: Main, tactical, and rear command posts.

PROCESSOR: Commander and staff.

1.3.1 Prepare Reports, Requests, And Directives For Transmission.

PROCESS DESCRIPTION: To select information recipients and prepare information for transmission. (ATCCS FD, Tab 2, p. 32)

INPUTS: Methods and procedures for nuclear weapons employment communications; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Formatted status reports; Formatted situation reports; Formatted requests for information; Formatted requests for support; Formatted warning order input; Formatted STRIKEWARN message; Formatted nuclear employment authorization; Formatted nuclear employment request; Formatted fire orders; Nuclear weapons security doctrine; Tactical SOP on communications; Tactical SOP on plan and order development.

OUTPUTS: Reports, requests, and directives prepared for transmission.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, SigO, Commander.

1.3.1.1 Encode Information.

PROCESS DESCRIPTION: To place information into coded form. (Derived)

INPUTS: Communications channels for nuclear weapons-related communications; Emission security procedures for nuclear weapons-related communications; Doctrine on protection of nuclear weapons indicators; Formatted periodic status reports; Formatted periodic situation reports; Formatted as-required status reports; Formatted as-required situation reports; Formatted requests for status update; Formatted requests for situation update; Formatted requests for sensor support; Formatted requests for delivery support; Formatted requests for air support; Integrated corps nuclear weapons package; Corps approved nuclear weapons subpackage; Formatted initial warning order; Formatted subsequent warning order; Formatted target attack warning order; Formatted STRIKEWARN message; Formatted nuclear employment authorization; Formatted nuclear employment request; Formatted fire orders; Tactical SOP on emission security.

OUTPUTS: Requests encoded for transmission; Reports encoded for transmission; Directives encoded for transmission.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.3.1.2 Prepare Header Information.

PROCESS DESCRIPTION: To place appropriate security classification, precedence, and date/time information on reports, requests, and directives which are to be transmitted. (AR 105-31, p. 1-1)

INPUTS: Requests encoded for transmission; Reports encoded for transmission; Directives encoded for transmission; Nuclear weapons communications priorities; Tactical SOP on order/plan security requirements.

OUTPUTS: Requests formatted for transmission; Reports formatted for transmission; Directives formatted for transmission.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, SigO, Commander.

1.3.1.2.1 Affix Security Classification.

PROCESS DESCRIPTION: To determine and emplace the appropriate security classification on an outgoing report, request, or directive. (Derived)

INPUTS: Requests encoded for transmission; Reports encoded for transmission; Directives encoded for transmission; Tactical SOP on order/plan security requirements.

OUTPUTS: Encoded requests with security classification affixed; Encoded reports with security classification affixed; Encoded directives with security classification affixed.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.3.1.2.2 Assign Precedence.

PROCESS DESCRIPTION: To determine and assign the appropriate message precedence to an outgoing report, request, or directive. (Derived)

INPUTS: Encoded requests with security classification affixed; Encoded reports with security classification affixed; Encoded directives with security classification affixed; Nuclear weapons communications priorities.

OUTPUTS: Encoded requests with security classification affixed and precedence assigned; Encoded reports with security classification affixed and precedence assigned; Encoded directives with security classification affixed and precedence assigned.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.3.1.2.3 Affix Date-Time Group.

PROCESS DESCRIPTION: To determine and affix the appropriate date-time group to an outgoing report, request, or directive. (Derived)

INPUTS: Encoded requests with security classification affixed and precedence assigned; Encoded reports with security classification affixed and precedence assigned; Encoded directives with security classification affixed and precedence assigned.

OUTPUTS: Encoded requests with security classification and date-time affixed and precedence assigned; Encoded reports with security classification and date-time affixed and precedence assigned; Encoded directives with security classification and date-time affixed and precedence assigned.

LOCATION: Telecommunications cell, main command post; Operations cell, rear command post; Tactical command post.

PROCESSOR: SigO.

1.3.1.3 Route Reports, Requests, And Directives.

PROCESS DESCRIPTION: To select information recipients and address outgoing reports, requests, and directives for transmission. (ATCCS FD, Tab 2, p. 32)

INPUTS: Requests formatted for transmission; Reports formatted for transmission; Directives formatted for transmission; List of supporting delivery units; List of supporting combat service support units; List of supporting target acquisition units; Communications channels for nuclear-related communications; Current communications-electronic operating instructions.

OUTPUTS: Reports routed for transmission; Directives routed for transmission; Requests routed for transmission.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.3.1.3.1 Determine Recipient(s).

PROCESS DESCRIPTION: To determine, based on the nature of the included information or on standing procedures, the appropriate recipient(s) of a report, request, or directive. (Derived)

INPUTS: Encoded requests with security classification and date-time affixed and precedence assigned; Encoded reports with security classification and date-time affixed and precedence assigned; Encoded

directives with security classification and date-time affixed and precedence assigned; List of supporting delivery units; List of supporting combat service support units; List of supporting target acquisition units.

OUTPUTS: Recipients designated for reports, directives and/or requests.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.3.1.3.2 Address Reports, Requests, And Directives.

PROCESS DESCRIPTION: To address a report, request, or directive to the proper recipient(s) in accordance with the communication mean and mode to be used.

INPUTS: Encoded requests with security classification and date-time affixed and precedence assigned; Encoded reports with security classification and date-time affixed and precedence assigned; Encoded directives with security classification and date-time affixed and precedence assigned; Recipients designated for requests, reports, and/or directives; Communications channels for nuclear-related communications; Current communications- electronic operating instructions.

OUTPUTS: Reports routed for transmission; Directives routed for transmission; Requests routed for transmission.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.3.2 Send Information.

PROCESS DESCRIPTION: To cause reports, requests, and directives to be transferred from one command and control node to another. (TRADOC Pam 11-9, p. B-7)

INPUTS: Reports, requests, and directives prepared for transmission; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Methods and procedures for nuclear weapons employment communications; Nuclear weapons employment input to the communications system establishment plan.

OUTPUTS: Status reports; Situation reports; Requests for information/support; Warning order input; STRIKEWARN message; Nuclear employment authorization; Nuclear employment request; Fire orders.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, SigO, Commander.

1.3.2.1 Transfer Information Electronically.

PROCESS DESCRIPTION: To transfer information by radio, wire, or other electronic means. (FM 11-50, pp. 2-2, 2-3)

INPUTS: Reports routed for transmission; Directives routed for transmission; Requests routed for transmission; Plan for emplacement of communications means; Plan for emplacement of communications modes; Emission security procedures for nuclear weapons-related communications.

OUTPUTS: Periodic status reports; Periodic situation reports; As-required status reports; As-required situation reports; Requests for status update; Requests for situation update; Integrated corps nuclear weapons package; Corps approved nuclear weapons subpackage; Initial warning order input; Subsequent warning order input; STRIKEWARN message; Nuclear employment authorization; Nuclear

employment request; Fire orders; Requests for air support; Requests for delivery support; Requests for sensor support.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.3.2.1.1 Key Information.

PROCESS DESCRIPTION: To enter a report, request, or directive into the selected communication mode.

INPUTS: Reports routed for transmission; Directives routed for transmission; Requests routed for transmission; Plan for allocation of communication means to support nuclear employment operations; Plan for allocation of communication modes to support nuclear employment operations.

OUTPUTS: Keyed reports, directives, and/or requests.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.3.2.1.2 Encrypt Signal.

PROCESS DESCRIPTION: To encrypt the audio or digital signal by which information is to be transferred. (Derived)

INPUTS: Keyed reports, directives, and/or requests; Plan for emplacement of COMSEC materials; Emission security procedures for nuclear weapons-related communications.

OUTPUTS: Periodic status reports; Periodic situation reports; As-required status reports; As-required situation reports; Requests for status update; Requests for situation update; Integrated corps nuclear weapons package; Corps approved nuclear weapons subpackage; Initial warning order input; Subsequent warning order input; STRIKEWARN message; Nuclear employment authorization; Nuclear employment request; Fire orders; Requests for air support; Requests for delivery support; Requests for sensor support.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

1.3.2.2 Deliver Information.

PROCESS DESCRIPTION: To transfer information by messenger, sound, visual, or other nonelectronic means. (FM 11-50, p. 2-4)

INPUTS: Reports routed for transmission, Directives routed for transmission; Requests routed for transmission; Plan for emplacement of communications means; Plan for emplacement of communications modes.

OUTPUTS: Periodic status reports; Periodic situation reports; As-required status reports; As-required situation reports; Requests for status update; Requests for situation update; Integrated corps nuclear weapons package; Corps approved nuclear weapons subpackage; Initial warning order input; Subsequent warning order input; STRIKEWARN message; Nuclear employment authorization; Nuclear employment request; Fire orders; Requests for air support; Requests for delivery support; Requests for sensor support.

LOCATION: All cells, main, tactical, and rear command posts.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, SigO, Commander.

SECTION 2 ASSESS SITUATION

2 Assess Situation.

PROCESS DESCRIPTION: To continuously evaluate information on all aspects of current or projected nuclear employment activities. (AC2MP, p. 2-5)

INPUTS: Doctrine; External reports; Higher headquarters directives; Standard procedures; Concept for the employment of nuclear weapons; Nuclear employment package/ subpackage information; Estimates; Reports/requests; Directives.

OUTPUTS: Assessment of the situation; Formatted directives. (Queries for updated or missing information may be directed to the "Acquire, Maintain, And Transmit Information" function.)

LOCATION: Command post.

PROCESSOR: Commander and staff.

2.1 Provide Preliminary Staff Nuclear Considerations.

PROCESS DESCRIPTION: To provide to the commander and/or to other agencies the current information pertaining to the status and conduct of nuclear employment-related activities. (FM 100-30, p. A-2)

INPUTS: External status reports; External situation reports; Higher headquarters orders/plans; Commander/staff officer estimates; SOPs; Regulations; Nuclear weapons employment doctrine; Fire support doctrine; Intelligence doctrine; Approved nuclear weapons package/subpackage; Situation reports/requests; Orders/plans.

OUTPUTS: Portrayal of the nuclear weapons employment status of the organization. (Requests for situation and/or status update may be directed to the "Monitor Situation" function.)

LOCATION: Main command post.

PROCESSOR: Commander and staff.

2.1.1 Provide Intelligence Considerations.

PROCESS DESCRIPTION: To provide to the commander and staff information relative to the enemy, terrain, weather, and counterintelligence as it pertains to the employment of nuclear weapons. (FM 100-30, p. A-2)

INPUTS: Higher headquarters intelligence annex; Higher headquarters OPSEC annex; Intelligence estimate; Sensor doctrine; Higher headquarters situation messages; Nuclear delivery system doctrine; Subordinate unit intelligence reports.

OUTPUTS: Description of the intelligence aspects of the employment of nuclear weapons. (Requests for current and projected enemy situation update may be directed to the "Request Information" function.)

LOCATION: Intelligence and fire support cells, main command post.

PROCESSOR: G2, FSCoord.

2.1.1.1 Describe Enemy.

PROCESS DESCRIPTION: To provide to the commander and remainder of the staff relevant information on enemy locations, nuclear capabilities, nuclear intentions and potential courses of action, and current and anticipated enemy nuclear targets and the ability to develop them. (FM 100-30, p. A-2)

INPUTS: Current enemy locations; Current enemy activities; Enemy order of battle; Enemy nuclear systems; Enemy nuclear intentions; Potential enemy courses of action; Sensor acquisition capabilities; Available target development means.

OUTPUTS: Description of enemy nuclear status; Potential enemy nuclear targets.
(Requests for enemy current locations and current activities may be directed to the "Determine Information Needs" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

2.1.1.1.1 Specify Enemy Locations.

PROCESS DESCRIPTION: To identify current and projected force locations as they affect current or potential nuclear weapons employment. (FM 100-30, p. A-2)

INPUTS: Current enemy locations; Potential enemy courses of action; Sensor acquisition capabilities; Available target development means.

OUTPUTS: Impact of enemy locations on nuclear weapons employment.
(Requests for enemy current locations update may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

2.1.1.1.2 Describe Enemy Nuclear Capabilities.

PROCESS DESCRIPTION: To describe the enemy's capability to employ nuclear weapons as it affects planned or potential friendly employment. (FM 100-30, p. A-2)

INPUTS: Enemy order of battle; Enemy nuclear systems.

OUTPUTS: Description of enemy nuclear capabilities.
(Requests for enemy current activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

2.1.1.1.3 Describe Enemy Potential Nuclear COA.

PROCESS DESCRIPTION: To describe potential enemy nuclear-supported courses of action. (FM 100-30, p. A-2)

INPUTS: Current enemy locations; Current enemy activities; Enemy order of battle; Enemy nuclear systems; Enemy nuclear intentions; Potential enemy courses of action.

OUTPUTS: Description of potential enemy nuclear courses of action.
(Requests for enemy current locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

2.1.1.1.4 Describe Current And Potential Enemy Targets.

PROCESS DESCRIPTION: To identify enemy forces or systems which may be considered for current or future nuclear weapons targeting. (FM 100-30, p. A-2)

INPUTS: Current enemy locations; Enemy order of battle; Enemy nuclear systems; Potential enemy courses of action; Sensor acquisition capabilities.

OUTPUTS: Potential enemy nuclear targets.
(Requests for enemy current locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

2.1.1.1.5 Specify Means To Develop Enemy Targets.

PROCESS DESCRIPTION: To identify the current and potential means for developing enemy force or system nuclear weapons targets. (Derived)

INPUTS: Current enemy locations; Enemy order of battle; Potential enemy courses of action; Potential enemy nuclear targets; Sensor acquisition capabilities; Available target development means.

OUTPUTS: Description of friendly capability to develop enemy nuclear targets.
(Requests for enemy current locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

2.1.1.2 Describe Effects Of Terrain And Weather.

PROCESS DESCRIPTION: To provide to the commander and the remainder of the staff information on the effects of terrain and weather on the employment of nuclear weapons. (FM 100-30, p. A-2)

INPUTS: Terrain and weather analysis; Current weather forecasts; Sensor acquisition capabilities; Available target development means; Nuclear delivery system capabilities; Potential enemy nuclear targets.

OUTPUTS: Description of the effects of terrain and weather on the employment of nuclear weapons.
(Requests for updated terrain and weather data may be directed to the "Determine Information Needs" function.)

LOCATION: Intelligence and fire support cells, main command post.

PROCESSOR: G2, FSCoord.

2.1.1.2.1 Describe Effects On Nuclear Target Development.

PROCESS DESCRIPTION: To describe the effects terrain and weather will have on the force's ability to develop nuclear targets. (Derived)

INPUTS: Wind conditions; Precipitation; Cloud conditions; Visibility conditions; Surface conditions; Vegetation; Terrain relief; Built-up areas; Sensor acquisition capabilities; Available target development means; Potential enemy nuclear targets.

OUTPUTS: Description of the effects of terrain and weather on target development.
(Requests for updated terrain and weather data may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

2.1.1.2.2 Describe Effects On Weapons Employment.

PROCESS DESCRIPTION: To describe the effects terrain and weather will have on the force's ability to deliver nuclear weapons. (Derived)

INPUTS: Wind conditions; Precipitation; Cloud conditions; Visibility conditions; Surface conditions; Vegetation; Terrain relief; Built-up areas; Potential enemy nuclear targets; Nuclear surface delivery system capabilities; Nuclear air delivery system capabilities.

OUTPUTS: Description of the effects of terrain and weather on weapons employment.
(Requests for updated terrain and weather data may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

2.1.1.3 Describe CI Aspects Of Nuclear Weapons Employment.

PROCESS DESCRIPTION: To provide to the commander and the remainder of the staff information on the capability of enemy intelligence to gather intelligence on and take subversive measures against friendly nuclear employment activities and to describe current and planned measures to deny nuclear employment information to the enemy. (FM 34-1, pp. 4-1, 4-6)

INPUTS: Enemy intelligence collection capabilities; Higher headquarters counterintelligence instructions; Enemy sabotage and subversion indicators; Current and projected countersurveillance measures and intelligence countermeasures.

OUTPUTS: Description of counterintelligence aspects of the employment of nuclear weapons.
(Requests for enemy current activities may be directed to the "Determine Information Needs" function.)

LOCATION: Intelligence and plans cells, main command post.

PROCESSOR: G2, G3

2.1.1.3.1 Describe Enemy Intelligence Capabilities.

PROCESS DESCRIPTION: To identify the enemy intelligence collection, terrorism, and sabotage capabilities as they relate to friendly nuclear weapons employment operations. (FM 34-1, pp. 4-1 to 4-3)

INPUTS: Enemy SIGINT capabilities; Enemy reconnaissance capabilities; Enemy sabotage and subversion indicators.

OUTPUTS: Description of the impact of enemy capabilities on friendly nuclear operations security.

(Requests for enemy current activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

2.1.1.3.2 Describe Current OPSEC Measures.

PROCESS DESCRIPTION: To describe the status of current nuclear employment operations security measures. (FM 34-1, p. 4-6)

INPUTS: Higher headquarters counterintelligence instructions; Current and projected countersurveillance measures and intelligence countermeasures.

OUTPUTS: Description of friendly nuclear OPSEC measures.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

2.1.2 Provide Operational Considerations.

PROCESS DESCRIPTION: To provide information to the commander and staff on higher headquarters directives, orders, and plans; SOPs; the friendly situation; and relative combat power as they relate to the employment of nuclear weapons. (FM 100-30, p. A-2)

INPUTS: Maneuver unit situation reports; Nuclear delivery unit situation reports; Nuclear delivery unit status reports; Combat service support unit status reports; Adjacent headquarters situation messages; Tactical SOP on nuclear weapons employment; Nuclear weapons employment regulations; Intelligence estimate; Operation estimate; Higher headquarters order/plan execution paragraph; Higher headquarters fire support annex; Higher headquarters task organization; Higher headquarters intelligence annex; Alternative nuclear weapons-supported courses of action; Nuclear employment request; Nuclear employment authorization.

OUTPUTS: Description of the operational aspects of the employment of nuclear weapons.
(Requests for current and projected friendly situation update and friendly force status update may be directed to the "Request Information" function.)

LOCATION: Plans cell and current operations cell, main command post.

PROCESSOR: G3, G2.

2.1.2.1 Describe Higher Headquarters Employment Guidance.

PROCESS DESCRIPTION: To provide information to the commander and staff on higher headquarters guidance, orders, plans, or standing procedures on the employment of nuclear weapons. (FM 100-30, p. A-2)

INPUTS: Higher headquarters nuclear support plan; Higher headquarters priority of nuclear fires; Higher headquarters concept of nuclear operations; Regulations on fallout preclusion; Regulations on damage to non-military resources; Nuclear employment authorization; Nuclear employment request; Tactical SOP on nuclear employment request/authorization procedures.

OUTPUTS: Description of higher headquarters nuclear employment guidance.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

2.1.2.1.1 Describe Nuclear Employment Guidance In Directives.

PROCESS DESCRIPTION: To describe higher headquarters nuclear weapons employment guidance prescribed in OPODs, OPLANs, SOPs, or other directives. (FM 100-30, p. A-2)

INPUTS: Higher headquarters nuclear employment assumptions; Current planned nuclear packages/subpackages; Higher headquarters priority of nuclear fires; Higher headquarters concept of nuclear operations; Regulations on fallout preclusion; Regulations on damage to non-military resources.

OUTPUTS: Description of nuclear employment guidance contained in higher headquarters directives/SOPs.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

2.1.2.1.2 Describe Status Of Employment Requests And Authorizations.

PROCESS DESCRIPTION: To describe the status of any pending requests to higher headquarters for authorization to employ nuclear weapons and the status of any current authorizations to lower headquarters to employ nuclear weapons. (FM 100-30, p. A-2)

INPUTS: Tactical SOP on nuclear employment request/authorization procedures; Nuclear employment authorization; Nuclear employment request.

OUTPUTS: Description of status of current nuclear employment requests and/or authorizations.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

2.1.2.2 Describe Friendly Force Situation.

PROCESS DESCRIPTION: To provide nuclear weapons employment-related information to the commander and the remainder of the staff on the location and current and projected activities of subordinate, supporting, adjacent, and higher friendly force organizations. (FM 100-30, p. A-3)

INPUTS: Maneuver unit locations; Maneuver unit activities; Delivery unit locations; Delivery unit activities; Maneuver unit projected locations; Maneuver unit projected activities; Adjacent unit locations; Adjacent unit activities.

OUTPUTS: Description of friendly force situation.

(Requests for friendly unit current and projected locations and friendly unit current and projected activities may be directed to the "Determine Information Needs" function.)

LOCATION: Plans cell and current operations cell, main command post.

PROCESSOR: G3.

2.1.2.2.1 Specify Unit Locations.

PROCESS DESCRIPTION: To identify the locations of subordinate, supporting, and adjacent units which affect the decision to employ or the employment of nuclear weapons. (FM 100-30, p. A-3)

INPUTS: Maneuver unit locations; Delivery unit locations; Maneuver unit projected locations; Adjacent unit locations.

OUTPUTS: Description of friendly force locations.

(Requests for friendly unit current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Current operations cell, main command post.

PROCESSOR: G3.

2.1.2.2.2 Describe Unit Activities.

PROCESS DESCRIPTION: To identify the activities of subordinate, supporting, and adjacent units which affect the decision to employ or the employment of nuclear weapons. (Derived)

INPUTS: Maneuver unit activities; Delivery unit activities; Maneuver unit projected activities; Adjacent unit activities.

OUTPUTS: Description of friendly force activities.

(Requests for friendly unit current and projected activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Current operations cell, main command post.

PROCESSOR: G3.

2.1.2.2.3 Describe Status Of Mission Accomplishment.

PROCESS DESCRIPTION: To describe the status of current operations in accomplishing the friendly force mission and the impact on a decision to employ nuclear weapons. (Derived)

INPUTS: Maneuver unit locations; Maneuver unit activities; Delivery unit activities; Maneuver unit projected locations; Maneuver unit projected activities.

OUTPUTS: Description of the status of current mission accomplishment.

(Requests for friendly unit current and projected locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Current operations cell, main command post.

PROCESSOR: G3.

2.1.2.3 Describe Relative Nuclear Combat Power.

PROCESS DESCRIPTION: To provide information to the commander and the remainder of the staff on the nuclear-specific relative combat power between the friendly force and the current and projected enemy opposition. (FM 100-30, p. A-2)

INPUTS: Enemy order of battle; Enemy nuclear systems; Enemy nuclear intentions; Analysis of relative combat power; Potential enemy courses of action; Higher headquarters priority of nuclear fires; Higher headquarters concept of nuclear operations; Higher headquarters PNL allocations; Delivery unit PNL status; Ordnance unit weapon status; List of supporting delivery units.

OUTPUTS: Description of the nuclear-specific relative combat power between the friendly and enemy forces; (Requests for friendly unit supply status may be directed to the "Determine Information Needs" function.)

LOCATION: Plans cell, main command post.

PROCESSOR: G3, G2.

2.1.2.3.1 Describe Relative Nuclear Employment Capabilities.

PROCESS DESCRIPTION: To compare the enemy and friendly force relative capabilities to employ nuclear weapons in support of current or projected operations. (Derived)

INPUTS: Enemy order of battle; Enemy nuclear systems; Higher headquarters priority of nuclear fires; Analysis of relative combat power; Higher headquarters concept of nuclear operations; Higher headquarters PNL allocations; Delivery unit PNL status; Ordnance unit weapon status; List of supporting delivery units.

OUTPUTS: Description of the nuclear-specific relative capabilities between the friendly and enemy forces.

(Requests for friendly unit supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans cell, main command post.

PROCESSOR: G3, G2.

2.1.2.3.2 Describe Conventional Operations Differential.

PROCESS DESCRIPTION: To describe the friendly and enemy relative capabilities for conventional operations as they impact on the decision to employ nuclear weapons. (Derived)

INPUTS: Enemy order of battle; Enemy nuclear intentions; Potential enemy courses of action; Higher headquarters priority of nuclear fires; Analysis of relative combat power; Higher headquarters concept of nuclear operations; Higher headquarters PNL allocations; Delivery unit PNL status; Ordnance unit weapon status; List of supporting delivery units.

OUTPUTS: Description of the relative conventional capabilities between friendly and enemy forces as they impact on the potential use of nuclear weapons.

(Requests for friendly unit supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans cell, main command post.

PROCESSOR: G3, G2.

2.1.3 Provide Fire Support Considerations.

PROCESS DESCRIPTION: To provide to the commander and staff information on delivery units, nuclear packages, integration of conventional and nuclear fires, prescribed nuclear loads, and warhead status. (FM 100-30, p. A-3)

INPUTS: Nuclear delivery unit situation reports; Nuclear delivery unit status reports; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Combat service support unit status reports; Higher headquarters fire support annex; Higher headquarters administration/logistics directives; Higher headquarters intelligence annex; Higher headquarters order/plan execution paragraph; Higher headquarters task organization; Intelligence estimate; Fire support estimate; Nuclear weapons targeting doctrine; Nuclear delivery system doctrine.

OUTPUTS: Description of the fire support aspects of the employment of nuclear weapons.

(Requests for current and projected friendly situation update and friendly force status update may be directed to the "Request Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord, ALO, NWLE (corps).

2.1.3.1 Describe Nuclear Delivery Unit Status.

PROCESS DESCRIPTION: To provide to the commander and the remainder of the staff information on the location, status, and activities of organic and supporting nuclear delivery units. (FM 100-30, p. A-3)

INPUTS: List of supporting delivery units; Nuclear delivery system capabilities; Nuclear delivery system response times; Delivery unit locations; Delivery unit activities; Delivery unit projected activities; Delivery unit equipment status; Delivery unit personnel status; Higher headquarters nuclear support plan.

OUTPUTS: Description of nuclear delivery system situation and status.
(Requests for friendly unit current and projected locations, friendly unit current and projected activities, and friendly unit equipment and personnel status updates may be directed to the "Determine Information Needs" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord, ALO.

2.1.3.1.1 Specify Cannon And Missile Unit Locations.

PROCESS DESCRIPTION: To specify the locations of cannon and missile artillery units as they impact on the units' ability to deliver nuclear fires. (FM 100-30, p. A-3)

INPUTS: List of supporting delivery units; Delivery unit locations.

OUTPUTS: Description of surface nuclear delivery system locations.
(Requests for friendly unit current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

2.1.3.1.2 Describe Cannon And Missile Unit Activities.

PROCESS DESCRIPTION: To describe the missions, activities, and status of cannon and missile artillery units as they impact on the units' ability to deliver nuclear fires. (FM 100-30, p. A-3)

INPUTS: Surface Nuclear delivery system capabilities; Surface Nuclear delivery system response times; Delivery unit activities; Delivery unit projected activities; Delivery unit equipment status; Delivery unit personnel status; Current planned nuclear packages/subpackages.

OUTPUTS: Description of surface nuclear delivery system activities and capabilities.
(Requests for friendly unit current and projected activities and friendly unit equipment and supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

2.1.3.1.3 Describe Status Of Supporting Air Attack Means.

PROCESS DESCRIPTION: To describe the capabilities and availability of allocated air nuclear delivered weapons and associated delivery systems. (Derived)

INPUTS: Air nuclear delivery system capabilities; Air nuclear delivery system response times; Delivery unit activities; Delivery unit projected activities; Delivery unit equipment status; Current planned nuclear packages/subpackages.

OUTPUTS: Description of air nuclear delivery system activities and system and weapon capabilities. (Requests for friendly unit current and projected activities and friendly unit equipment status may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: ALO.

2.1.3.2 Describe Status of Nuclear Stocks.

PROCESS DESCRIPTION: To provide to the commander and the remainder of the staff information on the quantity, composition, and location of prescribed nuclear loads and prescribed nuclear stockage. (FM 100-30, p. A-3)

INPUTS: Delivery unit PNL status; Ordnance unit weapon status; Higher headquarters PNL allocations; NASP/WHA locations; Ordnance unit storage capabilities.

OUTPUTS: Description of prescribed nuclear load status. (Requests for friendly unit supply status update may be directed to the "Determine Information Needs" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord, NWLE (corps).

2.1.3.2.1 Describe Delivery Unit Current PNLs.

PROCESS DESCRIPTION: To describe the current prescribed nuclear loads of subordinate units by delivery system, number, and yield. (FM 100-30, p. A-3)

INPUTS: Delivery unit PNL status; Higher headquarters PNL allocations.

OUTPUTS: Description of delivery unit current and projected PNLs. (Requests for friendly unit supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

2.1.3.2.2 Describe Ammunition Unit Current PNSs.

PROCESS DESCRIPTION: To describe the current prescribed nuclear stockages of supporting nuclear ammunition units by delivery system, number, and yield. (FM 100-30, p. A-3)

INPUTS: Ordnance unit weapon status; Higher headquarters PNL allocations.

OUTPUTS: Description of current and projected PNS. (Requests for friendly unit supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord, NWLE (corps).

2.1.3.2.3 Describe Capabilities Of NASPs And WHAs.

PROCESS DESCRIPTION: To specify the locations and describe the capabilities of supporting nuclear ammunition supply points and weapons holding areas. (Derived)

INPUTS: NASP/WHA locations; Ordnance unit storage capabilities; Higher headquarters PNL allocations.

OUTPUTS: Description of NASP and WHA capabilities.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord, NWLE (corps).

2.1.3.3 Describe Nuclear Package Status.

PROCESS DESCRIPTION: To provide to the commander and the remainder of the staff information on the composition and intended use of currently planned nuclear weapons packages and higher headquarters guidance on package development and refinement. (FM 100-30, p. A-3)

INPUTS: Higher headquarters nuclear support plan; Higher headquarters concept of nuclear operations; Higher headquarters priority of nuclear fires; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package.

OUTPUTS: Description of current nuclear package/ subpackage status.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord, ALO.

2.1.3.3.1 Describe Current Packages/Subpackages.

PROCESS DESCRIPTION: To describe the purpose and composition of of force nuclear weapons packages/subpackages, higher headquarters packages, and/or subordinate unit subpackages. (FM 100-30, p. A-3)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Current planned nuclear packages/ subpackages.

OUTPUTS: Description of current packages/ subpackages.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

2.1.3.3.2 Describe Guidance On Execution Of Packages.

PROCESS DESCRIPTION: To describe higher headquarters guidance on the conditions and trigger events associated with the request and authorization to execute nuclear weapons packages/subpackages. (FM 100-30, p. A-3)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Current planned nuclear packages/ subpackages; Higher headquarters concept of nuclear operations; Higher headquarters priority of nuclear fires.

OUTPUTS: Description of higher headquarters guidance on the execution of planned nuclear packages/subpackages.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord, ALO.

2.1.3.4 Describe Fires Integration implications.

PROCESS DESCRIPTION: To describe to the commander and the remainder of the staff the general advantages, disadvantages, and effects of integrating nuclear and conventional fires in support of a scheme of maneuver. (FM 100-30, p. A-3)

INPUTS: Enemy nuclear intentions; Potential enemy courses of action; Potential enemy nuclear targets; Sensor acquisition capabilities; Doctrine on the integration of nuclear and conventional fire; Available target development means; Higher headquarters nuclear support plan; Higher headquarters concept of nuclear operations; List of supporting delivery units; Nuclear delivery system capabilities.

OUTPUTS: Description of the implications of nuclear and conventional fires integration.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

2.1.3.4.1 Describe Impact On Conventional Fires.

PROCESS DESCRIPTION: To describe the impact of nuclear weapons employment on conventional fires capabilities to include availability of delivery systems and increases in overall combat power. (Derived)

INPUTS: Potential enemy nuclear targets; Sensor acquisition capabilities; Doctrine on the integration of nuclear and conventional fires; Available target development means; Higher headquarters nuclear employment assumptions; Higher headquarters concept of nuclear operations; List of supporting delivery units; Surface nuclear delivery system capabilities; Air nuclear delivery system capabilities.

OUTPUTS: Description of the impact of nuclear employment on conventional fires.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

2.1.3.4.2 Describe Effects On Maneuver.

PROCESS DESCRIPTION: To describe the effects of planned or potential nuclear weapons employment on maneuver in terms of the vulnerability of maneuver forces, obstacles to maneuver, and enemy resistance. (Derived)

INPUTS: Enemy nuclear intentions; Potential enemy courses of action; Potential enemy nuclear targets; Sensor acquisition capabilities; Available target development means; Higher headquarters nuclear employment assumptions; Current planned nuclear packages/ subpackages; Higher headquarters concept of nuclear operations; Surface nuclear delivery system capabilities; Air nuclear delivery system capabilities.

OUTPUTS: Description of the impact of nuclear employment on maneuver.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

2.1.4. Provide Personnel Considerations.

PROCESS DESCRIPTION: To provide to the commander and staff information on personnel strengths, morale, and radiation exposure status. (FM 100-30, p. A-3)

INPUTS: Nuclear delivery unit status reports; Maneuver unit status reports; Personnel estimate; Higher headquarters fire support annex.

OUTPUTS: Description of the personnel aspects of the employment of nuclear weapons.
(Requests for friendly force status update may be directed to the "Request Information" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G1.

2.1.4.1 Describe Effects Of Nuclear Employment On Personnel.

PROCESS DESCRIPTION: To provide information to the commander and the remainder of the staff on the effects on organizational strength and the psychological and morale effects on friendly personnel of friendly and/or enemy use of nuclear weapons. (FM 100-30, p. A-3)

INPUTS: Delivery unit personnel status; Maneuver unit personnel status; Higher headquarters nuclear support plan; Current soldier personal readiness; Current physical combat stress; Personnel strengths and replacements.

OUTPUTS: Description of the effects of nuclear employment on friendly personnel.
(Requests for friendly unit personnel status may be directed to the "Determine Information Needs" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G1.

2.1.4.1.1 Describe Casualty Effects Of Enemy Nuclear Employment.

PROCESS DESCRIPTION: To describe the effects of enemy nuclear weapons employment on friendly casualty rates as it affects the decision to use nuclear weapons. (FM 100-30, p. A-3)

INPUTS: Delivery unit personnel status; Maneuver unit personnel status; Higher headquarters nuclear employment assumptions; Personnel strengths and replacements.

OUTPUTS: Description of the effects of enemy nuclear employment on friendly force casualties.
(Requests for friendly unit personnel status be directed to the "Examine Requests for Information" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G1.

2.1.4.1.2 Describe Effects On Morale.

PROCESS DESCRIPTION: To describe the effects on morale of friendly and/or enemy potential use of nuclear weapons as it impacts on the decision to initiate the use of nuclear weapons. (Derived)

INPUTS: Current soldier personal readiness; Current physical combat stress.

OUTPUTS: Description of the effects of nuclear weapons employment on friendly morale.
(Requests for friendly unit personnel status may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G1.

2.1.4.2 Describe Current Radiation Status.

PROCESS DESCRIPTION: To provide current information to the commander and the remainder of the staff on the status of radiation exposure of battalion-size units within the force. (FM 100-30, p. A-3)

INPUTS: Delivery unit personnel status; Maneuver unit personnel status; Higher headquarters nuclear support plan.

OUTPUTS: Description of friendly force current radiation exposure status.
(Requests for friendly unit personnel status may be directed to the "Determine Information Needs" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G1.

2.1.4.2.1 Specify Radiation Exposure.

PROCESS DESCRIPTION: To provide figures on the radiation exposure levels of battalion-size units and their impact on current or projected nuclear employment operations. (FM 100-30, p. A-3)

INPUTS: Delivery unit personnel status; Maneuver unit personnel status.

OUTPUTS: Description of current friendly force radiation exposure status.
(Requests for friendly unit personnel status may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G1.

2.1.4.2.2 Describe Radiation Exposure Guidance.

PROCESS DESCRIPTION: To describe higher headquarters guidance on the limits of radiation exposure for friendly forces. (Derived)

INPUTS: Higher headquarters operational exposure guidance.

OUTPUTS: Description of current guidance on radiation exposure levels.

LOCATION: CSS cell, main command post.

PROCESSOR: G1.

2.1.5 Provide Logistic Considerations.

PROCESS DESCRIPTION: To provide information to the commander and staff on delivery systems, replacement items, and transportation capabilities as they relate to nuclear weapons employment. FM 100-30, p. A-4)

INPUTS: Nuclear delivery unit status reports; Combat service support unit status reports; Combat service support unit situation reports; Logistic estimate; Nuclear weapons logistics doctrine; Higher headquarters administration/logistics directives; Higher headquarters task organization.

OUTPUTS: Description of the logistic aspects of the employment of nuclear weapons.
(Requests for current and projected friendly situation update and friendly force status may be directed to the "Request Information" function.).

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, NWLE (corps).

2.1.5.1 Describe Status Of Nuclear Delivery Systems.

PROCESS DESCRIPTION: To provide information to the commander and the remainder of the staff on the status of nuclear delivery systems and replacement items for subordinate and supporting units. (FM 100-30, p. A-4)

INPUTS: List of supporting delivery units; Delivery unit equipment status; Delivery unit supply status.

OUTPUTS: Description of nuclear delivery system logistic status.
(Requests for friendly unit equipment and supply status updates may be directed to the "Determine Information Needs" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G4.

2.1.5.1.1 Describe System Operational Readiness.

PROCESS DESCRIPTION: To describe the current and projected operational readiness levels for organic and supporting nuclear delivery systems and the impact of system operational readiness on nuclear employment operations. (Derived)

INPUTS: List of supporting delivery units; Delivery unit equipment status.

OUTPUTS: Description of operational readiness of supporting nuclear delivery systems.
(Requests for friendly unit equipment status may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G4.

2.1.5.1.2 Describe Maintenance Considerations.

PROCESS DESCRIPTION: To describe the current and projected status of replacement items and maintenance efforts for nuclear delivery systems and weapons. (Derived)

INPUTS: List of supporting delivery units; Delivery unit equipment status; Delivery unit supply status.

OUTPUTS: Description of the maintenance capabilities and projections for supporting nuclear delivery systems.
(Requests for friendly unit equipment and supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G4.

2.1.5.2 Describe Transportation And Accountability Status.

PROCESS DESCRIPTION: To provide information to the commander and the remainder of the staff on the status and capability of organic and supporting transportation and ammunition supply systems to receive, store, and deliver nuclear weapons. (Derived)

INPUTS: List of supporting combat service support units; Logistics characteristics of the area of operations; Ordnance unit weapon status; Ordnance unit storage capabilities; Transportation unit personnel status; Transportation unit equipment status; NASP/WHA locations; Air resupply procedures; Ordnance unit locations; Nuclear weapons transportation procedures; Nuclear weapons accountability procedures.

OUTPUTS: Description of nuclear weapons transportation and accountability status.
(Requests for friendly unit equipment and personnel status and friendly unit current and projected locations may be directed to the "Determine Information Needs" function.)

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, NWLE (corps).

2.1.5.2.1 Describe Nuclear Weapons Transportation Capabilities.

PROCESS DESCRIPTION: To describe the capabilities of organic and supporting transportation units to transport nuclear weapons within the area of operations. (Derived)

INPUTS: List of supporting combat service support units; Logistics characteristics of the area of operations; Ordnance unit weapon status; Ordnance unit storage capabilities; Transportation unit personnel status; Transportation unit equipment status; NASP/WHA locations; Air resupply procedures; Nuclear weapons transportation procedures; Ordnance unit locations.

OUTPUTS: Description of nuclear weapons transportation capabilities.
(Requests for friendly unit current and projected locations and friendly unit equipment and personnel status may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G4.

2.1.5.2.2 Describe Nuclear Weapons Accountability Requirements.

PROCESS DESCRIPTION: To describe any nonstandard accountability requirements for the receipt, storage, issue, or transfer of nuclear weapons by organic and supporting units. (Derived)

INPUTS: Ordnance unit weapon status; Ordnance unit storage capabilities; NASP/WHA locations; Nuclear weapons accountability procedures; Ordnance unit locations.

OUTPUTS: Description of nuclear weapons accountability requirements.

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, NWLE (corps).

2.1.6 Provide Civil-Military Considerations.

PROCESS DESCRIPTION: To provide information to the commander and staff on the location, vulnerability, warning, and damage restrictions for civilian populace and property and the control of refugees. (FM 100-30, p. A-4)

INPUTS: Higher headquarters civil-military operations annex; Higher headquarters fire support annex; Nuclear weapons employment regulations; Host nation reports.

OUTPUTS: Description of the civil-military aspects of the employment of nuclear weapons.
(Requests for current and projected friendly situation update may be directed to the "Request Information" function.)

LOCATION: CSS and plans cells, main command post.

PROCESSOR: G5, G3.

2.1.6.1 Describe Status Of Civilian Populace.

PROCESS DESCRIPTION: To provide information to the commander and the remainder of the staff on the status, location, and vulnerability of the civilian populace as they relate to the employment of nuclear weapons. (FM 100-30, p. A-4)

INPUTS: Civilian populace locations; Civilian populace movements; Civilian cultural resource locations; Civilian industrial resource locations; Host nation civil defense measures; Higher headquarters nuclear support plan; Regulations on fallout preclusion; Regulations on damage to non-military resources.

OUTPUTS: Description of the impact on the civilian populace of the employment of nuclear weapons.
(Requests for civilian population status update may be directed to the "Determine Information Needs" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G5.

2.1.6.1.1 Identify Population Centers.

PROCESS DESCRIPTION: To identify civilian population centers of sizes which, in accordance with higher headquarters guidance, warrant preclusion from the effects of nuclear weapons. (FM 100-30, p. A-4)

INPUTS: Civilian populace locations; Civilian cultural resource locations; Civilian industrial resource locations; Current planned nuclear packages/subpackages; Regulations on fallout preclusion; Regulations on damage to non-military resources.

OUTPUTS: Description of civilian population centers.
(Requests for civilian population status may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G5.

2.1.6.1.2 Describe Civil Defense Measures.

PROCESS DESCRIPTION: To describe measures taken by population centers to mitigate the effects of nuclear weapons on a populace. (Derived)

INPUTS: Civilian populace locations; Civilian populace movements; Host nation civil defense measures.

OUTPUTS: Description of the civil defense measures undertaken or planned for the civilian populace.
(Requests for civilian population status may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G5.

2.1.6.2 Describe Refugee Control Considerations.

PROCESS DESCRIPTION: To provide information on current or projected nuclear employment-related refugee control matters within the area of operations. (FM 100-30, p. A-4)

INPUTS: Civilian transportation resource status; Higher headquarters nuclear support plan; Civilian populace locations; Civilian populace movements; Refugee status.

OUTPUTS: Description of the effects of nuclear weapons employment on refugee control.
(Requests for civilian population status update may be directed to the "Determine Information Needs" function.)

LOCATION: CSS and plans cells, main command post.

PROCESSOR: G5, G3.

2.1.6.2.1 Describe Civilian Population Movements.

PROCESS DESCRIPTION: To identify significant current and projected civilian movements and/or evacuations within the area of operations. (Derived)

INPUTS: Civilian transportation resource status; Current planned nuclear packages/subpackages; Civilian populace locations; Civilian populace movements.

OUTPUTS: Description of civilian population movements.
(Requests for civilian population status may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G5.

2.1.6.2.2 Describe Impact Of Nuclear Weapons On Movements.

PROCESS DESCRIPTION: To describe the impact which the employment of nuclear weapons may have on evacuations and movements of the civilian population in terms of required rerouting, creation of large scale congestion, or potential for civilian panic. (Derived)

INPUTS: Civilian transportation resource status; Current planned nuclear packages/subpackages; Civilian populace locations; Civilian populace movements; Refugee status.

OUTPUTS: Description of the effects of nuclear weapons employment on civilian populace movements.
(Requests for civilian population status may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS cell, main command post.

PROCESSOR: G5.

2.1.6.2.3 Describe Impact Of Movements On Nuclear Employment.

PROCESS DESCRIPTION: To describe the impact which evacuations and movements of the civilian population may have on the employment of nuclear weapons in terms of preclusion requirements or resupply/ redistribution of weapons. (Derived)

INPUTS: Current planned nuclear packages/subpackages; Civilian populace locations; Civilian populace movements; Refugee status.

OUTPUTS: Description of the effects of civilian populace movements on nuclear weapons employment. (Requests for civilian population status may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

2.1.7 Provide Political And Legal Considerations.

PROCESS DESCRIPTION: To provide to the commander and remainder of the staff information on current international or regional political policies and legal aspects of nuclear weapons employment. (FM 100-1, p. 9)

INPUTS: Nuclear weapons employment regulations; Higher headquarters fire support annex; Nuclear weapons employment political guidance.

OUTPUTS: Description of the legal and political aspects of the employment of nuclear weapons.

LOCATION: CSS, fire support, and plans cells, main command post

PROCESSOR: G5, SJA, G3, FSCOORD.

2.1.7.1 Describe Political Considerations.

PROCESS DESCRIPTION: To describe political constraints and considerations for the employment of nuclear weapons (Derived)

INPUTS: Higher headquarters nuclear support plan; Guidance on nuclear weapons-related political agreements; Regulations on fallout preclusion.

OUTPUTS: Description of the political restraints on the employment of nuclear weapons.

LOCATION: CSS, fire support, and plans cells, main command post.

PROCESSOR: G5, SJA, G3, FSCOORD.

2.1.7.2 Describe Legal Considerations.

PROCESS DESCRIPTION: To describe legal considerations for the employment of nuclear weapons. (Derived)

INPUTS: Regulations on fallout preclusion; Regulations on damage to non-military resources.

OUTPUTS: Description of the legal restraints on the employment of nuclear weapons.

LOCATION: CSS, fire support, and plans cells, main command post.

PROCESSOR: G5, SJA, G3, FSCOORD.

2.2 Analyze Mission.

PROCESS DESCRIPTION: To examine the organizational mission in order to determine the nuclear employment-related tasks which must be accomplished, their complexity, and their relative importance;

the purpose and intent of higher headquarters; and the parameters of nuclear weapons employment. (FM 101-5, p. 5-8)

INPUTS: Higher headquarters orders/plans; External status reports; External situation reports; Commander/staff officer estimates; Replanning requirements; Portrayal of the nuclear weapons employment status of the organization; SOPs; Regulations.

OUTPUTS: Analysis of the nuclear employment aspects of the mission.
(Requests for situation and status update may be directed to the "Monitor Situation" function.)

LOCATION: Main command post.

PROCESSOR: Commander and staff.

2.2.1 Identify Specified Nuclear Tasks.

PROCESS DESCRIPTION: To identify nuclear employment tasks stated in a higher headquarters directive. (FM 101-5, p. 5-8)

INPUTS: Higher headquarters order/plan execution paragraph; Higher headquarters fire support annex; Higher headquarters intelligence annex; Higher headquarters OPSEC annex; Higher headquarters deception annex; Higher headquarters administration/logistics directives; Requirement to reassess the nuclear employment situation; Higher headquarters task organization.

OUTPUTS: Record of specified nuclear employment tasks.

LOCATION: Command, plans, CSS, intelligence, and fire support cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

2.2.1.1 Examine Higher Headquarters Directives.

PROCESS DESCRIPTION: To thoroughly review a higher headquarters plan or order for all stated nuclear employment tasks which pertain to the organization. (FM 101-5, p. 5-8)

INPUTS: Higher headquarters concept of nuclear operations; Assigned organizational mission; Adjacent unit missions; List of supporting delivery units; List of supporting combat service support units; List of supporting target acquisition units; Higher headquarters coordinating instructions; Higher headquarters PNL allocations; Higher headquarters nuclear support plan; Higher headquarters artillery support plan; Higher headquarters air support plan; Higher headquarters signal security measures; Higher headquarters physical security measures; Higher headquarters deception story; Higher headquarters deception implementing schedule; Summary of the enemy situation; Higher headquarters counterintelligence instructions; NASP/WH/ locations; Air resupply procedures; Requirement to reanalyze mission.

OUTPUTS: Specified nuclear target attack tasks; Specified nuclear target acquisition tasks; Specified nuclear logistic tasks.

LOCATION: Command, plans, intelligence, CSS, and fire support cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

2.2.1.2 List Specified Tasks.

PROCESS DESCRIPTION: To record all stated nuclear employment tasks noted during examination of higher headquarters directives. (ST 100-9, p. 3-2)

INPUTS: Specified nuclear target attack tasks; Specified nuclear target acquisition tasks; Specified nuclear logistic tasks.

OUTPUTS: Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks.

LOCATION: Command, plans, intelligence, CSS, and fire support cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, Commander.

2.2.2 Determine Implied Nuclear Tasks.

PROCESS DESCRIPTION: To determine those nuclear weapons employment tasks not specifically stated in a directive which must be accomplished to satisfy the overall mission, satisfy the accomplishment of specified tasks, or comply with the intent of higher commanders. (FM 101-5, p. 5-8)

INPUTS: Nuclear delivery unit situation reports; Maneuver unit situation reports; Target acquisition unit situation reports; Higher headquarters situation messages; Subordinate unit intelligence reports; Intelligence estimate; Higher headquarters order/plan execution paragraph; Requirement to reassess the nuclear employment situation; Record of specified nuclear employment tasks.

OUTPUTS: Record of implied nuclear employment tasks. (Requests for current and projected friendly and enemy situation updates may be directed to the "Request Information" function.)

LOCATION: Command, plans, current operations, CSS, fire support, and intelligence cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

2.2.2.1 Examine Specified Tasks.

PROCESS DESCRIPTION: To examine all previously identified specified tasks in order to determine other, unspecified tasks which must be performed in order to accomplish the specified tasks. (ST 100-9, p. 3-2)

INPUTS: Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks.

OUTPUTS: Implied nuclear target attack tasks; Implied nuclear target acquisition tasks; Implied nuclear logistic tasks.

LOCATION: Command, intelligence, CSS, plans, and fire support cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

2.2.2.2 Examine Situation.

PROCESS DESCRIPTION: To analyze the current battlefield situation to identify any nuclear weapons employment tasks arising from the nature of the situation, the terrain, or the weather. (FM 101-5, p. 5-8)

INPUTS: Terrain and weather analysis; Delivery unit locations; Delivery unit activities; Maneuver unit locations; Maneuver unit activities; Target acquisition unit locations; Target acquisition unit activities; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Requirement to reanalyze mission.

OUTPUTS: Implied nuclear target attack tasks; Implied nuclear target acquisition tasks; Implied nuclear logistic tasks.

(Requests for friendly unit current locations and activities, enemy current and projected locations and activities, and terrain and weather data may be directed to the "Determine Information Needs" function.)

LOCATION: Intelligence, plans, current operations, and fire support cells, main command post.

PROCESSOR: G2, G3, FSCoord.

2.2.2.2.1 Examine Enemy Situation.

PROCESS DESCRIPTION: To examine the current and projected enemy situation to determine whether the enemy activities, locations, and/or capabilities suggest the need to plan for the use of nuclear weapons and to determine what effects the enemy situation may have on the employment of those weapons. (ST 100-9, p. 3-2)

INPUTS: Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Requirement to reanalyze mission.

OUTPUTS: Implied nuclear target attack tasks; Implied nuclear target acquisition tasks.
(Requests for enemy current and projected locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

2.2.2.2.2 Examine Friendly Force Situation.

PROCESS DESCRIPTION: To examine the current and projected friendly force situation to determine whether friendly dispositions and/or relative combat power suggest the need to plan for the use of nuclear weapons and to determine what effects the friendly situation may have on the employment of those weapons. (ST 100-9, p. 3-2)

INPUTS: Delivery unit locations; Delivery unit activities; Maneuver unit locations; Maneuver unit activities; Target acquisition unit locations; Target acquisition unit activities; Requirement to reanalyze mission.

OUTPUTS: Implied nuclear target attack tasks; Implied nuclear target acquisition tasks; Implied nuclear logistic tasks.
(Requests for friendly unit current locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Current operations cell, main command post.

PROCESSOR: G3.

2.2.2.2.3 Examine Terrain And Weather.

PROCESS DESCRIPTION: To examine the terrain in the current and projected areas of operations to determine if the nature of the terrain suggests any nuclear employment-related tasks and to determine any restrictions which the terrain may have on the employment of nuclear weapons. (ST100-9, p. 3-2)

INPUTS: Precipitation; Vegetation; Terrain relief; Built-up areas; Delivery unit locations; Maneuver unit locations; Maneuver unit activities; Target acquisition unit locations; Current enemy locations; Projected enemy locations; Requirement to reanalyze mission.

OUTPUTS: Implied nuclear target attack tasks; Implied nuclear target acquisition tasks; Implied nuclear logistic tasks.
(Requests for enemy current and projected locations, friendly unit current locations, and terrain and weather data may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans, intelligence, and fire support cells, main command post.

PROCESSOR: G3, G2, FSCoord.

2.2.2.3 Analyze Intent Of Higher Commander.

PROCESS DESCRIPTION: To analyze the stated intent of a higher headquarters commander in order to derive and note any additional organizational tasks. (ST 100-9, p. 3-2)

INPUTS: Higher commander's intent.

OUTPUTS: Implied nuclear target attack tasks; Implied nuclear target acquisition tasks; Implied nuclear logistic tasks.

LOCATION: Command, CSS, intelligence, fire support, and plans cells, main command post.

PROCESSOR: Commander, G4, G2, FSCoord, G3.

2.2.2.4 List Implied Tasks.

PROCESS DESCRIPTION: To record all implied tasks noted during examination of specified tasks, the situation, and higher commander's intent (ST 100-9, p. 3-2)

INPUTS: Implied nuclear target attack tasks; Implied nuclear target acquisition tasks; Implied nuclear logistic tasks.

OUTPUTS: Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

2.2.3 Identify Limitations On Nuclear Employment.

PROCESS DESCRIPTION: To identify nuclear weapons-related operational limitations placed on the organization which prohibit a specified action or limit the organization's freedom of action. (ST 100-9, p. 3-3)

INPUTS: Higher headquarters order/plan execution paragraph; Record of specified nuclear employment tasks; Record of implied nuclear employment tasks; Higher headquarters fire support annex; Nuclear weapons employment regulations; Nuclear weapons employment political guidance; Description of the political and legal aspects of the employment of nuclear weapons; Staff and subordinate headquarters planning and preparation time.

OUTPUTS: Limitations on the employment of nuclear weapons.

LOCATION: Command, plans, CSS, and fire support cells, main command post.

PROCESSOR: Commander, G1, G3, G4, G5, FSCoord.

2.2.3.1 Identify Constraints.

PROCESS DESCRIPTION: To identify limitations placed on the organization by higher headquarters which limit the organization's freedom of action by requiring that a nuclear employment-related action be performed. (ST 100-9, p. 3-3,

INPUTS: Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Time available for planning

and preparation; Higher headquarters nuclear support plan; Higher headquarters concept of nuclear operations.

OUTPUTS: Constraints on the employment of nuclear weapons.

LOCATION: Plans, CSS, command, and fire support cells, main command post.

PROCESSOR: G3, G4, FSCoord, commander.

2.2.3.1.1 Determine Time Constraints.

PROCESS DESCRIPTION: To determine the existence of any time constraints dictated by higher headquarters would impact on the ability to adequately plan for the use of nuclear weapons or affect the timely request for employment authorization and delivery of nuclear weapons. (Derived)

INPUTS: Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Time available for planning and preparation; Higher headquarters concept of nuclear operations.

OUTPUTS: Time constraints on the planning and employment of nuclear weapons.

LOCATION: Command, plans, CSS, and fire support cells, main command post.

PROCESSOR: G3, G4, FSCoord, commander.

2.2.3.1.2 Identify Requirements For Reserve.

PROCESS DESCRIPTION: To identify higher headquarters' requirements for the maintenance of a nuclear weapons reserve which may constrain employment. (Derived)

INPUTS: Record of specified nuclear target attack tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear logistic tasks; Current planned nuclear packages/subpackages; Higher headquarters concept of nuclear operations.

OUTPUTS: Requirements for the maintenance of nuclear weapon reserves.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

2.2.3.1.3 Determine Targeting Constraints.

PROCESS DESCRIPTION: To identify higher headquarters constraints which direct that targets of a specified nature or location be attacked with nuclear weapons. (Derived)

INPUTS: Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Current planned nuclear packages/subpackages; Higher headquarters concept of nuclear operations.

OUTPUTS: Constraints on nuclear weapons targeting.

LOCATION: Command, plans, intelligence, and fire support cells, main command post.

PROCESSOR: Commander, G3, G2, FSCoord.

2.2.3.2 Identify Restrictions.

PROCESS DESCRIPTION: To identify limitations placed on the organization by a higher headquarters which prohibit the organization from performing a nuclear weapons employment-related action. (ST 100-9, p. 3-3)

INPUTS: Regulations on fallout preclusion; Guidance on nuclear weapons-related political agreements; Regulations on damage to non-military resources; Higher headquarters nuclear support plan.

OUTPUTS: Restrictions on the employment of nuclear weapons.

LOCATION: Plans, CSS, command, and fire support cells, main command post.

PROCESSOR: G1, G3, G5, FSCoord, commander.

2.2.3.2.1 Determine Geographical Restrictions.

PROCESS DESCRIPTION: To identify any geographical restrictions placed on the employment of nuclear weapons by higher headquarters. (Derived)

INPUTS: Guidance on nuclear weapons-related political agreements; Regulations on damage to non-military resources; Current planned nuclear packages/subpackages.

OUTPUTS: Geographical restrictions on the employment of nuclear weapons.

LOCATION: Plans, CSS, and fire support cells, main command post.

PROCESSOR: G3, G5, FSCoord.

2.2.3.2.2 Determine Yield Restrictions.

PROCESS DESCRIPTION: To identify any higher headquarters restrictions in the yields of nuclear weapons which may be planned or employed. (Derived)

INPUTS: Guidance on nuclear weapons-related political agreements; Regulations on damage to non-military resources; Current planned nuclear packages/subpackages.

OUTPUTS: Yield restrictions on the employment of nuclear weapons.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

2.2.3.2.3 Determine Fallout Restrictions.

PROCESS DESCRIPTION: To identify any higher headquarters restrictions placed on the creation of fallout from nuclear weapons. (Derived)

INPUTS: Regulations on fallout preclusion; Guidance on nuclear weapons-related political agreements; Current planned nuclear packages/subpackages.

OUTPUTS: Fallout restrictions on the employment of nuclear weapons.

LOCATION: Plans, CSS, and fire support cells, main command post.

PROCESSOR: G3, G5, FSCoord.

2.2.3.3 Determine Acceptable Risk.

PROCESS DESCRIPTION: To determine the risk associated with the employment of nuclear weapons which the higher commander is willing to accept. (ST 100-9, p. 3-3)

INPUTS: Higher commander's intent; Higher headquarters concept of nuclear operations; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks.

OUTPUTS: Determination of risk higher commander is willing to accept in the employment of nuclear weapons.

LOCATION: Command and plans cells, main command post.

PROCESSOR: Commander, G3.

2.2.3.3.1 Examine Directives.

PROCESS DESCRIPTION: To examine higher headquarters directives to determine specified guidance on the degree and nature of risk acceptable in the employment of nuclear weapons. (Derived)

INPUTS: Higher headquarters concept of nuclear operations; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks.

OUTPUTS: Determination of acceptable risk derived from directives.

LOCATION: Command and plans cells, main command post.

PROCESSOR: Commander, G3.

2.2.3.3.2 Examine Higher Commander's Intent.

PROCESS DESCRIPTION: To examine a higher commander's stated or implied intent regarding the degree and nature of risk acceptable in the employment of nuclear weapons. (Derived)

INPUTS: Higher commander's intent; Higher headquarters concept of nuclear operations.

OUTPUTS: Determination of acceptable risk derived from higher commander's intent.

LOCATION: Command and plans cells, main command post.

PROCESSOR: Commander, G3.

2.2.4 Allot Time Available.

PROCESS DESCRIPTION: To balance the time available between planning and preparation requirements at the various echelons of command. (ST 100-9, p. 3-3)

INPUTS: Current time; Nuclear delivery unit situation reports; Nuclear delivery unit status reports; Target acquisition unit situation reports; Target acquisition unit status reports; Higher headquarters situation messages; Subordinate unit intelligence reports; Higher headquarters order/plan execution paragraph; Higher headquarters situation messages; Tactical SOP on plan and order development; Record of specified nuclear employment tasks; Record of implied nuclear employment tasks.

OUTPUTS: Staff and subordinate headquarters planning and preparation time.
(Requests for current and projected friendly and enemy situation updates and friendly force status update may be directed to the "Request Information" function.)

LOCATION: Command and plans cells, main command post.

PROCESSOR: Commander, G3.

2.2.4.1 Determine Time Available.

PROCESS DESCRIPTION: To determine the amount of time available between receipt or derivation of a mission until the time of mission execution and until completion of the maneuver scheme as stated in the order/plan. (ST 100-9, p. 3-3)

INPUTS: Current time; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities.

OUTPUTS: Time available for planning and preparation.
(Requests for enemy current and projected locations and activities may be directed to the "Determine Information Needs" function.)

LOCATION: Plans cell, main command post.

PROCESSOR: G3

2.2.4.2 Estimate Decision Cycle Time.

PROCESS DESCRIPTION: To determine the time required for the organization to arrive at a decision and issue directives for accomplishment of nuclear employment tasks. (ST 100-9, p. 3-3)

INPUTS: Tactical SOP on staff responsibilities for order/plan development and coordination; Tactical SOP on order/plan security requirements; Tactical SOP on order/plan formats; Tactical SOP on order/plan approval procedures; Tactical SOP on order/plan preparation times; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks.

OUTPUTS: Decision cycle time.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

2.2.4.3 Allocate Time For Planning.

PROCESS DESCRIPTION: To allocate time for subordinate unit planning and preparation and prepare a planning schedule. (ST 100-9, p. 3-3)

INPUTS: Time available for planning and preparation; Decision cycle time; Delivery unit PNL status; Delivery unit locations; Delivery unit activities; Target acquisition unit equipment status; Target acquisition unit locations; Target acquisition unit activities; Higher commanders' intent; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks.

OUTPUTS: Order/plan preparation time; Rehearsal time; Subordinate unit movement times; Subordinate unit planning time; Subordinate unit preparation time; Planning time schedule.
(Requests for friendly unit current and projected locations and activities and friendly unit equipment and supply status may be directed to the "Determine Information Needs" function.)

LOCATION: Plans and command cells, main command post.

PROCESSOR: G3, commander.

2.2.5 Identify Nuclear Employment Resources.

PROCESS DESCRIPTION: To determine the availability and mission capability of nuclear employment systems and weapons. (FM 6-20-30, p. C-6-4)

INPUTS: Nuclear delivery unit status reports; Nuclear delivery unit situation reports; Combat service support unit status reports; Higher headquarters fire support annex; Higher headquarters order/plan execution paragraph; Higher headquarters task organization.

OUTPUTS: Available nuclear weapons employment resources. (Requests for current and projected friendly situation update and friendly force status update may be directed to the "Request Information" function.)

LOCATION: Fire support and plans cells, main command post.

PROCESSOR: FSCoord, ALO, G3.

2.2.5.1 Determine Surface-Delivered Resources Available.

PROCESS DESCRIPTION: To determine what surface delivery systems and associated yields are available for planning. (FM 6-20-30, p. C-6-4)

INPUTS: Higher headquarters priority of nuclear fires; Higher headquarters PNL allocations; Higher headquarters nuclear support plan; Higher headquarters field artillery support plan; Higher headquarters concept of nuclear operations; List of supporting delivery units; Delivery unit PNL status; Ordnance unit weapon status; Delivery unit equipment status; Delivery unit supply status; Delivery unit personnel status; Delivery unit locations; Delivery unit activities.

OUTPUTS: Surface-delivered nuclear resources available for planning.
(Requests for friendly unit current locations and activities and friendly unit equipment, personnel, and supply status may be directed to the "Determine Information Needs" function.)

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: FSCoord, G3.

2.2.5.1.1 Identify Available Systems.

PROCESS DESCRIPTION: To determine through a review of task organization documents the number and type of nuclear-capable surface delivery systems which are assigned, attached, or directly supporting the force. (Derived)

INPUTS: Higher headquarters field artillery tactical missions; List of supporting delivery units; Delivery unit equipment status; Delivery unit supply status; Delivery unit personnel status; Delivery unit locations; Delivery unit activities.

OUTPUTS: Surface nuclear systems available for planning.
(Requests for friendly unit current locations and activities and friendly unit equipment, personnel, and supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

2.2.5.1.2 Identify Available Weapons.

PROCESS DESCRIPTION: To determine by type and yield the number of nuclear weapons which have been allocated to the force for planning purposes. (Derived)

INPUTS: Higher headquarters priority of nuclear fires; Higher headquarters PNL allocations; Current planned nuclear packages/ subpackages; Higher headquarters concept of nuclear operations; List of supporting delivery units; Delivery unit PNL status; Ordnance unit weapon status.

OUTPUTS: Surface-delivered nuclear weapons available for planning.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

2.2.5.2 Determine Air-Delivered Resources Available.

PROCESS DESCRIPTION: To determine what air-delivered bombs and associated yields are available for planning. (FM 6-20-30, p. C-6-4)

INPUTS: Higher headquarters priority of nuclear fires; Higher headquarters nuclear support plan; Higher headquarters air support plan; Higher headquarters concept of nuclear operations; List of supporting delivery units; Delivery unit locations; Delivery unit activities.

OUTPUTS: Air-delivered nuclear resources available for planning.
(Requests for friendly unit current locations and activities may be directed to the "Determine Information Needs" function.)

LOCATION: Fire support and plans cells, main command post.

PROCESSOR: FSCoord, ALO, G3.

2.3 Issue Initial Planning Guidance.

PROCESS DESCRIPTION: To prepare and provide preliminary guidance to the staff in order to give them a common starting point for planning and to focus their attention on nuclear employment issues. (FM 100-30, pp. A-4, A-5)

INPUTS: External situation reports; Higher headquarters orders/plans; Analysis of the nuclear employment aspects of the mission; SOPs; Replanning requirements.

OUTPUTS: Commander's initial planning guidance; Formatted orders. (Requests for situation update may be directed to the "Monitor Situation" function.)

LOCATION: Main command post.

PROCESSOR: Commander and staff.

2.3.1 Restate Mission.

PROCESS DESCRIPTION: To restate the nuclear employment aspects of the organizational mission. (FM 100-30, p. A-4)

INPUTS: Record of specified nuclear employment tasks; Record of implied nuclear employment tasks; Available nuclear weapons employment resources; Higher headquarters order/plan execution paragraph; Requirement to reassess the nuclear employment situation.

OUTPUTS: Restated mission.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

2.3.1.1 Identify Essential Tasks.

PROCESS DESCRIPTION: To identify those nuclear employment tasks which are critical to the accomplishment of the mission. (ST 100-9, p. 3-2)

INPUTS: Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Higher headquarters concept of nuclear operations; Requirement to revise initial planning guidance; Higher commander's intent.

OUTPUTS: Essential nuclear employment tasks.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

2.3.1.2 Format Mission.

PROCESS DESCRIPTION: To describe the nuclear employment aspects of the mission in terms which answer the questions who, what, where, when, and why. (ST 100-9, p. 3-4)

INPUTS: Essential nuclear employment tasks; Air-delivered nuclear resources available for planning; Surface-delivered nuclear resources available for planning.

OUTPUTS: Restated mission.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

2.3.2 Describe Circumstances Of Nuclear Employment.

PROCESS DESCRIPTION: To describe the tactical circumstances under which nuclear weapons should be considered for use; to describe the intended results of their use; and to specify limits to their use which must be considered. (FM 100-30, p. A-5)

INPUTS: Higher headquarters fire support annex; Higher headquarters intelligence annex; Higher headquarters order/plan execution paragraph; Higher headquarters situation messages; Subordinate unit intelligence reports; Record of specified nuclear employment tasks; Record of implied nuclear employment tasks; Limitations on the employment of nuclear weapons; Requirement to reassess the nuclear employment situation.

OUTPUTS: Guidance on the circumstances and limits for nuclear weapons employment.
(Requests for current and projected enemy situation update may be directed to the "Request Information" function.)

LOCATION: Command, intelligence, CSS, fire support, and plans cells, main command post.

PROCESSOR: Commander, G1, G2, G3, G4, FSCoord.

2.3.2.1 Describe Tactical Contingencies.

PROCESS DESCRIPTION: To identify and describe those tactical situations in which the use of nuclear weapons must be considered by the staff. (FM 100-30, p. A-5)

INPUTS: Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Higher headquarters concept of nuclear operations; Higher commander's intent; Higher headquarters nuclear support plan; Requirement to revise initial planning guidance.

OUTPUTS: Description of tactical contingencies for which nuclear weapons must be considered for use. (Requests for enemy current and projected locations and activities may be directed to the "Determine Information Needs" function.)

LOCATION: Plans, fire support, and command cells, main command post.

PROCESSOR: G3, FSCoord, commander.

2.3.2.2 Describe Desired Results Of Nuclear Employment.

PROCESS DESCRIPTION: To describe what the employment of nuclear weapons is designed to accomplish within a given tactical contingency. (FM 100-30, p. A-4)

INPUTS: Description of tactical contingencies for which nuclear weapons must be considered for use; Record of specified nuclear target attack tasks; Record of implied nuclear target attack tasks; Higher headquarters concept of nuclear operations; Higher commander's intent; Enemy order of battle.

OUTPUTS: Description of the desired results of nuclear weapons employment in each tactical contingency.

LOCATION: Plans, fire support, and command cells, main command post.

PROCESSOR: G3, FSCoord, commander.

2.3.2.2.1 Describe Damage Objectives.

PROCESS DESCRIPTION: To describe the effect which the commander desires for nuclear weapons to have on the enemy in terms of reduction in combat capability. (FM 100-30, p. A-5)

INPUTS: Description of tactical contingencies for which nuclear weapons must be considered for use; Record of specified nuclear target attack tasks; Record of implied nuclear target attack tasks; Higher headquarters concept of nuclear operations; Higher commander's intent; Enemy order of battle.

OUTPUTS: Description of the damage objectives of nuclear weapons in each tactical contingency.

LOCATION: Command and plans cells, main command post.

PROCESSOR: Commander, G3.

2.3.2.2.2 Describe Contribution To Friendly Operations.

PROCESS DESCRIPTION: To describe the effects of nuclear weapons employment in terms of how friendly force mission accomplishment will be facilitated. (Derived)

INPUTS: Description of tactical contingencies for which nuclear weapons must be considered for use; Higher headquarters concept of nuclear operations; Higher commander's intent; Enemy order of battle.

OUTPUTS: Description of the nuclear weapons contribution to mission accomplishment in each tactical contingency.

LOCATION: Command and fire support cells, main command post.

PROCESSOR: Commander, FSCoord.

2.3.2.3 Describe Limiting Factors.

PROCESS DESCRIPTION: To specify acceptable risks and any constraints or restrictions on the use of nuclear weapons to include type delivery system, yield, or geographical limitations which must be considered in the development of courses of action. (FM 100-30, pp. A-5)

INPUTS: Description of tactical contingencies for which nuclear weapons must be considered for use; Description of the desired results of nuclear weapons employment in each tactical contingency; Constraints on the employment of nuclear weapons; Restrictions on the employment of nuclear weapons; Determination of risk higher commander is willing to accept in the employment of nuclear weapons.

OUTPUTS: Nuclear employment limitations to be considered during planning.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

2.3.2.3.1 Describe Acceptable Risk.

PROCESS DESCRIPTION: To describe for the staff the degree of the risk, in terms of potential enemy reaction, the commander is willing to accept in the employment of nuclear weapons. (Derived)

INPUTS: Description of tactical contingencies for which nuclear weapons must be considered for use; Description of the damage objectives of nuclear weapons in each tactical contingency; Description of the nuclear weapons contribution to mission accomplishment in each tactical contingency; Determination of acceptable risk derived from directives; Determination of acceptable risk derived from higher commander's intent.

OUTPUTS: Degree of acceptable risk to be considered during planning.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

2.3.2.3.2 Describe Constraints.

PROCESS DESCRIPTION: To describe for the staff targeting, time, and/or other constraints which the commander desires incorporated into the planning effort. (Derived)

INPUTS: Description of tactical contingencies for which nuclear weapons must be considered for use; Description of the damage objectives of nuclear weapons in each tactical contingency; Description of the nuclear weapons contribution to mission accomplishment in each tactical contingency; Time constraints on the planning and employment of nuclear weapons; Requirements for the maintenance of nuclear weapon reserves; Constraints on nuclear weapons targeting.

OUTPUTS: Constraints on nuclear weapons employment to be considered during planning.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

2.3.2.3.3 Describe Restrictions.

PROCESS DESCRIPTION: To describe for the staff targeting, weapon selection, geographical, and other restrictions which the commander desires adhered to during the course of nuclear weapons employment planning. (Derived)

INPUTS: Description of tactical contingencies for which nuclear weapons must be considered for use; Description of the damage objectives of nuclear weapons in each tactical contingency; Description of the nuclear weapons contribution to mission accomplishment in each tactical contingency; Geographical restrictions on the employment of nuclear weapons; Yield restrictions on the employment of nuclear weapons; Fallout restrictions on the employment of nuclear weapons.

OUTPUTS: Restrictions on nuclear weapons employment to be considered during planning.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

2.3.3 Prepare Initial Warning Order Input.

PROCESS DESCRIPTION: To produce nuclear employment- related inputs for incorporation into a preliminary warning for subordinate organizations alerting them to the receipt of a new mission and providing advance nuclear employment planning information. (ST 100-9, p. 3-6)

INPUTS: Restated mission; Record of specified nuclear employment tasks; Record of implied nuclear employment tasks; Staff and subordinate headquarters planning and preparation time; Available nuclear weapons employment resources; Tactical SOP on plan and order development.

OUTPUTS: Formatted warning order input.

LOCATION: Plans, CSS, and fire support cells, main command post.

PROCESSOR: G3, G4, FSCoord, NWLE (corps).

2.3.3.1 Provide Critical Information.

PROCESS DESCRIPTION: To provide advance warning information to subordinate organizations to allow the initiation of time-sensitive nuclear employment actions which must be accomplished regardless of the ultimate course of action selected. (Derived)

INPUTS: Planning time schedule; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Restated mission; Surface-delivered nuclear resources available for planning.

OUTPUTS: Critical planning information.

LOCATION: Plans, CSS, and fire support cells, main command post.

PROCESSOR: G3, G4, FSCoord, NWLE (corps).

2.3.3.1.1 Develop Movement Instructions.

PROCESS DESCRIPTION: To develop instructions on movement times, locations, and routes for nuclear delivery systems, sensor systems, and ammunition support units which must be accomplished regardless of the course of action eventually adopted. (Derived)

INPUTS: Planning time schedule; Restated mission; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Surface nuclear systems available for planning.

OUTPUTS: Movement planning information.

LOCATION: Plans, CSS, and fire support cells, main command post.

PROCESSOR: G3, G4, FSCoord, NWLE (corps).

2.3.3.1.2 Develop Resupply Instructions.

PROCESS DESCRIPTION: To develop instructions on resupply and/or redistribution of nuclear employment resources which must be accomplished regardless of the course of action eventually adopted. (Derived)

INPUTS: Planning time schedule; Restated mission; Record of specified nuclear logistic tasks; Record of implied nuclear logistic tasks; Surface-delivered nuclear weapons available for planning.

OUTPUTS: Resupply planning information.

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, NWLE (corps).

2.3.3.2 Format Initial Warning Order Input.

PROCESS DESCRIPTION: To format and incorporate nuclear employment-related information into the warning order in accordance with standing operating procedures. (Derived)

INPUTS: Critical planning information; Tactical SOP on order/plan formats.

OUTPUTS: Formatted initial warning order input.

LOCATION: Plans, CSS, and fire support cells, main command post.

PROCESSOR: G3, G4, FSCoord, NWLE (corps).

2.4 Analyze Need For Change.

PROCESS DESCRIPTION: To continually assess current and anticipated nuclear employment-related battlefield activities in order to determine whether changes to current plans or orders are appropriate. (TRADOC Pam 11-9, p. B-8)

INPUTS: External status reports; External situation reports; Analysis of the nuclear employment aspects of the mission; Approved nuclear weapons package/subpackage; Commander's decision and concept for the employment of nuclear weapons; Nuclear targeting information; Nuclear employment coordination information; Commander's supplementary planning guidance.

OUTPUTS: Replanning requirements.
(Requests for situation and status update may be directed to the "Monitor Situation" function.)

LOCATION: Tactical command post; Main command post.

PROCESSOR: Commander and staff.

2.4.1 Compare Actual Situation To Desired Situation.

PROCESS DESCRIPTION: To compare the portrayal of the actual nuclear weapons employment situation acquired through monitoring the situation with the desired situation as reflected in current orders/plans in order to determine the variance between the two. (ATCCS FD, Vol. III, Book 1, Tab 2, p. 30)

INPUTS: Nuclear delivery unit status reports; Nuclear delivery unit situation reports; Higher headquarters situation messages; Subordinate unit intelligence reports; Maneuver unit status reports; Maneuver unit situation reports; Target acquisition unit situation reports; Targets designated for nuclear employment planning; Desired modification to target behavior; Record of specified nuclear employment tasks; Record of implied nuclear employment tasks; Concept of nuclear employment operations; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package.

OUTPUTS: Variance between actual and desired nuclear situations.
(Requests for current and projected friendly and enemy situation updates and friendly force status update may be directed to the "Request Information" function.)

LOCATION: Current operations, intelligence, and fire support cells, main command post; Tactical command post.

PROCESSOR: G3, G2, FSCoord.

2.4.1.1 Determine Outcome Of Nuclear Employment Tasks.

PROCESS DESCRIPTION: To determine the results of nuclear weapons employment tasks by determining whether the task was accomplished and examining what changes to organizational status and the battlefield situation occurred as a result of task accomplishment. (Derived)

INPUTS: Delivery unit PNL status; Delivery unit locations; Nuclear detonation data; Current enemy locations; Current enemy activities; Enemy capabilities; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Integrated corps nuclear weapons package; Corps-approved nuclear weapons subpackage.

OUTPUTS: Outcomes of nuclear employment tasks.
(Requests for enemy current locations and activities, friendly unit supply status and friendly unit current locations may be directed to the "Determine Information Needs" function.)

LOCATION: Current operations, intelligence, and fire support cells, main command post; Tactical command post.

PROCESSOR: G3, G2, FSCoord.

2.4.1.1.1 Determine Damage To Enemy.

PROCESS DESCRIPTION: To determine the degradation in enemy combat power in terms of equipment and personnel losses that resulted from a friendly nuclear attack. (Derived)

INPUTS: Ground zero locations; Yield estimations; Actual heights of burst; Current enemy locations; Current enemy activities; Enemy capabilities; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Corps package aimpoints; Corps package weapons; Subpackage aimpoints; Subpackage weapons.

OUTPUTS: Damage to enemy targets.
(Requests for enemy current locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

2.4.1.1.2 Determine Changes In Target Behavior.

PROCESS DESCRIPTION: To determine the changes in enemy battlefield activities, for both enemy nuclear targets and the enemy force as a whole, that resulted from friendly nuclear weapons employment. (Derived)

INPUTS: Current enemy locations; Current enemy activities; Enemy capabilities; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks.

OUTPUTS: Change in enemy force behavior.
(Requests for enemy current locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

2.4.1.1.3 Determine Changes In Resources Available.

PROCESS DESCRIPTION: To determine the changes in nuclear weapons employment resources available after execution of one or more nuclear employment tasks. (Derived)

INPUTS: Delivery unit PNL status; Delivery unit locations; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Corps package weapons; Subpackage weapons.

OUTPUTS: Changes in nuclear employment resources.
(Requests for friendly unit current locations and supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: Current operations and fire support cells, main command post.

PROCESSOR: G3, FSCOORD.

2.4.1.2 Match Desired Effects To Achieved Results.

PROCESS DESCRIPTION: To compare the desired outcome of nuclear employment tasks with the actual outcomes in terms of the established nuclear defeat criteria (friendly and/or enemy losses, terrain losses or gains, or modifications to enemy behavior). (Derived)

INPUTS: Outcomes of nuclear employment tasks; Commander's statement of intent; Commander's course of action description; Required target damage; Desired modification to target behavior; Maneuver unit locations; Maneuver unit activities; Maneuver unit personnel status; Maneuver unit equipment status; Current enemy locations; Current enemy activities; Enemy capabilities.

OUTPUTS: Terrain controlled differential; Enemy damage differential; Friendly force loss differential; Target behavior modification differential.
(Requests for friendly and enemy current locations and activities and friendly unit equipment and personnel status may be directed to the "Determine Information Needs" function.)

LOCATION: Current operations, intelligence, and fire support cells, main command post; Tactical command post.

PROCESSOR: G3, G2, FSCoord.

2.4.1.2.1 Compare Damage To Enemy Forces.

PROCESS DESCRIPTION: To compare the reduction in enemy combat power achieved through friendly force nuclear weapons employment with the reduction in combat power which was desired from such employment. (Derived)

INPUTS: Damage to enemy targets; Commander's statement of intent; Required target damage; Enemy capabilities.

OUTPUTS: Enemy damage differential.

(Requests for friendly unit current activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans and intelligence cells, main command post.

PROCESSOR: G3, G2.

2.4.1.2.2 Compare Terrain Gain/Loss.

PROCESS DESCRIPTION: To compare the gains or losses of terrain achieved through friendly force nuclear weapons employment with the gains or losses which were desired from such employment. (Derived)

INPUTS: Commander's statement of intent; Commander's course of action description; Maneuver unit locations; Maneuver unit activities; Current enemy locations; Current enemy activities.

OUTPUTS: Terrain controlled differential.

(Requests for friendly unit and enemy current locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

2.4.1.2.3 Compare Friendly Force Capability.

PROCESS DESCRIPTION: To compare the desired residual friendly force nuclear weapons employment capability with actual capability following the performance of one or more nuclear employment tasks. (Derived)

INPUTS: Changes in nuclear employment resources; Maneuver unit locations; Maneuver unit activities; Maneuver unit personnel status; Maneuver unit equipment status.

OUTPUTS: Friendly force loss differential.

(Requests for friendly unit current locations and activities and friendly unit equipment and personnel status may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

2.4.1.2.4 Compare Modifications In Target Behavior.

PROCESS DESCRIPTION: To compare the changes in enemy battlefield activities achieved through friendly force nuclear weapons employment with the activity changes which were desired from such employment. (Derived)

INPUTS: Changes in enemy force behavior; Commander's statement of intent; Desired modification to target behavior; Current enemy locations; Current enemy activities; Enemy capabilities.

OUTPUTS: Target behavior modification differential.

(Requests for enemy current locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans and intelligence cells, main command post.

PROCESSOR: G3, G2.

2.4.2 Determine Need For Replanning.

PROCESS DESCRIPTION: To determine if the variance between the actual situation and the desired situation is unacceptable, whether opportunities to exploit success are present, additional planning must be conducted. (ATCCS FD, Vol. III, Book 1, Tab 2, p. 30) (This process results in an output only in those cases when it is decided that some degree of replanning is required.)

INPUTS: Variance between actual and desired nuclear situation; Concept of nuclear employment operations; Nuclear weapons attack guidance; Record of specified nuclear employment tasks; Record of implied nuclear employment tasks; Limitations on the employment of nuclear weapons; Staff and subordinate headquarters planning and preparation time; Targets designated for nuclear employment planning; Desired modification to target behavior; Relevant enemy targets/target sets; Guidance for the initiation/request of nuclear weapons employment authorization; Evaluated nuclear weapons package/subpackage; Target development coordination information; Target attack coordination information; Nuclear weapons logistic support plan.

OUTPUTS: Planning shortfalls.

LOCATION: Current operations, fire support, and command cells, main command post; Tactical command post.

PROCESSOR: Commander, G3, FSCoord.

2.4.2.1 Determine Impact Of Variance.

PROCESS DESCRIPTION: To determine the impact of the difference between the desired and the actual task outcomes in terms of the effect the variance will have on mission accomplishment or in terms of an opportunity to exploit success; to decide whether the variance is sufficiently significant to warrant replanning nuclear employment operations. (Derived)

INPUTS: Terrain controlled differential; Enemy damage differential; Friendly force loss differential; Target behavior modification differential; Nuclear weapon restrike criteria; Guidance on target damage/defeat criteria revision; Commander's statement of intent; Commander's course of action description; Description of the purpose of nuclear weapons in combat operations.

OUTPUTS: Impact of variance on mission accomplishment; Identified opportunity to exploit success; Decision to initiate change through replanning. (The last two outputs of this process result only in those cases when it is decided that some degree of replanning is required.)

LOCATION: Current operations, fire support, and command cells, main command post; Tactical command post.

PROCESSOR: Commander, G3, FSCoord.

2.4.2.1.1 Examine Effect On Mission Accomplishment.

PROCESS DESCRIPTION: To determine the effect which the difference between actual and desired results of nuclear weapons employment will have on the force's ability to accomplish its mission. (Derived)

INPUTS: Terrain controlled differential; Enemy damage differential; Friendly force loss differential; Target behavior modification differential; Nuclear weapon restrike criteria; Guidance on target damage/defeat criteria revision; Commander's statement of intent; Commander's course of action description; Description of the purpose of nuclear weapons in combat operations.

OUTPUTS: Impact of variance on mission accomplishment; Decision to initiate change through replanning. (The second output of this process results only in those cases when it is decided that some degree of replanning is required.)

LOCATION: Current operations and command cells, main command post; Tactical command post.

PROCESSOR: G3, commander.

2.4.2.1.2 Examine Opportunity For Exploitation.

PROCESS DESCRIPTION: To determine the opportunity to exploit unanticipated success when the actual results of nuclear weapons employment exceeded desired results. (Derived)

INPUTS: Terrain controlled differential; Enemy damage differential; Friendly force loss differential; Target behavior modification differential; Commander's statement of intent; Commander's course of action description.

OUTPUTS: Identified opportunity to exploit success; Decision to initiate change through replanning. (The second output of this process results only in those cases when it is decided that some degree of replanning is required.)

LOCATION: Current operations and command cells, main command post; Tactical command post.

PROCESSOR: G3, commander.

2.4.2.2 Determine Degree Of Replanning Required.

PROCESS DESCRIPTION: To determine the degree of planning effort required to initiate the appropriate change to the situation by identifying shortfalls in the employment planning process. (Derived) (This process is performed only in those cases when it is decided that some degree of replanning is required.)

INPUTS: Decision to initiate change through replanning; Impact of variance on mission accomplishment; Identified opportunity to exploit success; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Constraints on the employment of nuclear weapons; Restrictions on the employment of nuclear weapons; Planning time schedule; Surface-delivered nuclear resources available for planning; Air-delivered nuclear resources available for planning; Facts pertaining to the employment of nuclear weapons; Assumptions pertaining to the employment of nuclear weapons; Analyzed nuclear weapons-supported courses of action; Relevant enemy targets/target sets; Desired modification to target behavior; Required target damage; Nuclear attack trigger events; Commander's course of action description; Description of tactical circumstances for nuclear release request/ authorization; Nuclear weapon restrike criteria; Weapons and yields for each identified target; Evaluated nuclear weapons package; Evaluated nuclear weapons subpackage; Sensors designated to develop nuclear targets; Delivery systems designated to attack nuclear targets; Recommended nuclear weapons resupply plan.

OUTPUTS: Shortfalls in assessment of the situation; Shortfalls in determining actions; Shortfalls in directing operations.

LOCATION: Current operations, fire support, and command cells, main command post; Tactical command post.

PROCESSOR: G3, FSCoord, commander.

2.4.2.2.1 Examine Assessment Of The Situation.

PROCESS DESCRIPTION: To determine, based on the impact which the variance between actual and desired results of nuclear employment have on mission accomplishment, whether the assessment of the situation upon which current plans were developed must be revised. (Derived) (This process is performed only in those cases when it is decided that some degree of replanning is required.)

INPUTS: Decision to initiate change through replanning; Impact of variance on mission accomplishment; Identified opportunity to exploit success; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Constraints on the employment of nuclear weapons; Restrictions on the employment of nuclear weapons; Planning time schedule; Surface-delivered nuclear resources available for planning; Air-delivered nuclear resources available for planning.

OUTPUTS: Shortfalls in assessment of the situation.

LOCATION: Current operations and command cells, main command post; Tactical command post.

PROCESSOR: G3, commander.

2.4.2.2. Examine Concept Of Nuclear Operations.

PROCESS DESCRIPTION: To determine, based on the impact which the variance between actual and desired results of nuclear employment have on mission accomplishment, whether the concept of nuclear operations upon which current plans were developed must be revised. (Derived) (This process is performed only in those cases when it is decided that some degree of replanning is required.)

INPUTS: Decision to initiate change through replanning; Impact of variance on mission accomplishment; Identified opportunity to exploit success; Facts pertaining to the employment of nuclear weapons; Assumptions pertaining to the employment of nuclear weapons; Analyzed nuclear weapons-supported courses of action; Relevant enemy targets/target sets; Desired modification to target behavior; Required target damage; Course of action events for initiation of nuclear employment request/authorization; Course of action nuclear employment request/authorization/execution decision points; Commander's course of action description; Description of tactical circumstances for nuclear employment request/authorization; Nuclear weapon restrike criteria.

OUTPUTS: Shortfalls in determining actions.

LOCATION: Current operations and command cells, main command post; Tactical command post.

PROCESSOR: G3, commander.

2.4.2.2.3 Examine Direction For Nuclear Operations.

PROCESS DESCRIPTION: To determine, based on the impact which the variance between actual and desired results of nuclear employment have on mission accomplishment, whether current directives must be revised and reissued. (Derived) (This process is performed only in those cases when it is decided that some degree of replanning is required.)

INPUTS: Decision to initiate change through replanning; Impact of variance on mission accomplishment; Identified opportunity to exploit success; Weapons, yields, and heights of burst for each identified target;

Evaluated nuclear weapons package; Evaluated nuclear weapons subpackage; Sensors designated to develop nuclear targets; Delivery systems designated to attack nuclear targets; Recommended nuclear weapons resupply plan.

OUTPUTS: Shortfalls in directing operations.

LOCATION: Current operations, fire support, and command cells, main command post; Tactical command post.

PROCESSOR: G3, FSCoord, commander.

2.4.3 Initiate Replanning.

PROCESS DESCRIPTION: To reenter the planning cycle at the appropriate point(s) in order to initiate change to the actual situation. (ATCCS FD, Vol. III, Book 1, Tab 2, p. 30) (This process is performed only in those cases when it is decided that planning shortfalls exist.)

INPUTS: Planning shortfalls.

OUTPUTS: Requirement to reassess the nuclear employment situation; Requirement to redetermine the nuclear employment concept; Requirement to redirect nuclear employment operations.

LOCATION: Tactical command post; Intelligence, current operations, plans, fire support, command, CSS cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

2.4.3.1 Initiate Tactical Redirection.

PROCESS DESCRIPTION: To overcome minor incongruences between the actual situation and the desired situation by issuing appropriate directives based on the original plan. These may include the revision of a package/subpackage or ordering the restrike of a target as long as these actions were foreseen in the original plan and provided for in the allocation of assets. (Army C2 Evaluation System User's Handbook, p. II-9) (This process is performed only in those cases when it is decided that planning shortfalls exist.)

INPUTS: Shortfalls in directing operations.

OUTPUTS: Requirement to redevelop nuclear package/ subpackage; Requirement to recoordinate nuclear operations.

LOCATION: Tactical command post; Current operations and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

2.4.3.2 Initiate Redetermination Of Concept.

PROCESS DESCRIPTION: To overcome moderate incongruences between the actual situation and the desired situation by implementing contingency plans for alternative courses of action which were identified (but not adopted or resourced) in previous planning. (Army C2 Evaluation System User's Handbook, p. II-9) (This process is performed only in those cases when it is decided that planning shortfalls exist.)

INPUTS: Shortfalls in determining actions.

OUTPUTS: Requirement to reformulate estimates; Requirement to retarget; Requirement to review course of action decision; Requirement to revise supplementary planning guidance.

LOCATION: Intelligence, fire support, plans, CSS, and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

2.4.3.3 Initiate Reassessment Of Situation.

PROCESS DESCRIPTION: To deal with major incongruences between the actual situation and the desired situation by reverting back to a reassessment of the situation facing the force and the associated nuclear weapons employment facts and assumptions. (Army C2 Evaluation System User's Handbook, pp. II-9, II-10) (This process is performed only in those cases when it is decided that planning shortfalls exist.)

INPUTS: Shortfalls in assessment of the situation.

OUTPUTS: Requirement to reanalyze mission; Requirement to revise initial planning guidance.

LOCATION: Intelligence, fire support, plans, CSS, and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

SECTION 3 DETERMINE CONCEPT OF NUCLEAR EMPLOYMENT

3. Determine Concept Of Nuclear Employment.

PROCESS DESCRIPTION: To conduct a continuous estimate and decision process to arrive at a concept for the employment of nuclear weapons. (AC2MP, p. 2-5)

INPUTS: Estimates; External reports; Higher headquarters directives; Assessment of the situation; Doctrine; Standard procedures.

OUTPUTS: Concept for the employment of nuclear weapons; Formatted directives.
(Queries for updated or missing information may be directed to the "Acquire, Maintain, And Transmit Information" function.)

LOCATION: Command post.

PROCESSOR: Commander and staff.

3.1 Formulate Nuclear-Related Portions Of Estimates.

PROCESS DESCRIPTION: To initiate or update a process of analyzing alternatives in order to arrive at a recommendation and decision on a concept for the employment of nuclear weapons. (FM 100-30, p. A-5)

INPUTS: External status reports; External situation reports; Commander/staff officer estimates; Higher headquarters orders/plans; Commander's initial planning guidance; Replanning requirements; Commander's decision and concept for the employment of nuclear weapons; Nuclear weapons employment doctrine; Analysis of the nuclear employment aspects of the mission.

OUTPUTS: Commander/staff officer estimates.
(Requests for situation and status update may be directed to the "Monitor Situation" function.)

LOCATION: Main command post.

PROCESSOR: Commander and staff.

3.1.1 Consider Facts And Assumptions.

PROCESS DESCRIPTION: To identify and assess facts and supplementing assumptions related to the employment of nuclear weapons in the accomplishment of an existing mission. (ST 100-9, pp. 4-1 to 4-4)

INPUTS: Nuclear delivery unit status reports; Nuclear delivery unit situation reports; Maneuver unit status reports; Maneuver unit situation reports; Combat service support unit status reports; Combat service support unit situation reports; Higher headquarters situation messages; Subordinate unit intelligence reports; Adjacent headquarters situation messages; Host nation reports; Restated mission; Record of specified nuclear employment tasks; Record of implied nuclear employment tasks; Requirement to redetermine nuclear employment concept; Guidance on the circumstances and limits for nuclear weapons employment; Direction to redetermine nuclear employment concept; Staff and subordinate headquarters planning and preparation time; Available nuclear employment resources; Higher headquarters order/plan execution paragraph; Higher headquarters fire support annex; Higher headquarters civil-military operations annex; Higher headquarters intelligence annex; Higher headquarters OPSEC annex; Higher headquarters deception annex; Higher headquarters administration/ logistics directives; Higher headquarters task organization; Modified course of action.

OUTPUTS: Facts and assumptions regarding the employment of nuclear weapons.

(Requests for current and projected friendly and enemy situation updates and friendly force status update may be directed to the "Request Information" function.)

LOCATION: Plans, intelligence, CSS, fire support, and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

3.1.1.1 Determine Facts.

PROCESS DESCRIPTION: To continually extract updated, factual information pertaining to nuclear weapons employment from data collected through directives, reports, guidance, and standing operating procedures. (ST 100-9, pp. 4-1 to 4-3)

INPUTS: Delivery unit PNL status; Delivery unit equipment status; Delivery unit supply status; Delivery unit personnel status; Delivery unit locations; Delivery unit activities; Maneuver unit equipment status; Maneuver unit personnel status; Maneuver unit locations; Maneuver unit activities; Transportation unit equipment status; Transportation unit personnel status; Ordnance unit weapon status; Ordnance unit storage capabilities; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Enemy capabilities; Adjacent unit locations; Adjacent unit activities; Civilian populace locations; Civilian population movements; Civilian cultural resource locations; Civilian industrial resource locations; Civilian transportation resource status; Refugee status; Higher headquarters priority of nuclear fires; Higher headquarters PNL allocations; Higher headquarters nuclear support plan; Higher headquarters artillery support plan; Higher headquarters air support plan; Higher headquarters counterintelligence instructions; Enemy order of battle; NASP locations; Ordnance unit locations; Air resupply procedures; Personnel strengths and replacements; Enemy intelligence collection capabilities; Higher headquarters signal security measures; Higher headquarters physical security measures; Higher headquarters deception story; Higher headquarters deception objective; Higher headquarters deception implementing schedule; Deception communications requirements; Higher headquarters concept of nuclear operations; Adjacent unit missions; Higher commanders' intent; Higher headquarters coordinating instructions; List of supporting delivery units; List of supporting combat service support units; List of supporting target acquisition units; Restated mission; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Description of tactical contingencies for which nuclear weapons must be considered for use; Description of the desired results of nuclear weapons in each tactical contingency; Nuclear employment limitations to be considered during planning; Order/plan preparation time; Surface-delivered nuclear resources available for planning; Air-delivered nuclear resources available for planning; Requirement to reformulate estimates; Direction to develop alternative nuclear weapons- supported course of action; Modifications to the plan of nuclear weapons support.

OUTPUTS: Facts pertaining to the employment of nuclear weapons.

(Requests for friendly unit and enemy current and projected locations and activities and friendly unit equipment, personnel, and supply status may be directed to the "Determine Information Needs" function.)

LOCATION: Plans, intelligence, CSS, fire support, and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

3.1.1.2 Develop Assumptions.

PROCESS DESCRIPTION: To develop assumptions regarding the employment of nuclear weapons to replace facts which are missing or which will change during the course of the planning cycle. (ST 100-9, pp. 4-3 to 4-5)

INPUTS: Facts pertaining to the employment of nuclear weapons.

OUTPUTS: Assumptions pertaining to the employment of nuclear weapons.

LOCATION: Plans, intelligence, CSS, fire support, and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

3.1.1.2.1 Determine Missing Facts.

PROCESS DESCRIPTION: To determine which facts required for course of action development and nuclear targeting are not available. (ST 100-9, p. 4-3)

INPUTS: Facts pertaining to the employment of nuclear weapons.

OUTPUTS: Unavailable facts relevant to nuclear weapons employment.

LOCATION: Plans, intelligence, CSS, fire support, and command cells, main command post.

PROCESSOR: G3, G2, G4, G1, G5, FSCoord, commander.

3.1.1.2.2 Determine Changing Facts.

PROCESS DESCRIPTION: To determine which facts required for course of action development and nuclear targeting will change over time. (ST 100-9, p. 4-3)

INPUTS: Facts pertaining to the employment of nuclear weapons.

OUTPUTS: Changing facts relevant to nuclear weapons employment.

LOCATION: Plans, intelligence, CSS, fire support, and command cells, main command post.

PROCESSOR: G3, G2, G4, G1, G5, FSCoord, commander.

3.1.1.2.3 Make Assumptions.

PROCESS DESCRIPTION: To make the assumptions necessary to replace missing facts or facts which will change over time. (ST 100-9, pp. 4-3 to 4-5)

INPUTS: Unavailable facts relevant to nuclear weapons employment; Changing facts relevant to nuclear weapons employment.

OUTPUTS: Assumptions pertaining to the employment of nuclear weapons.

LOCATION: Plans, intelligence, CSS, fire support, and command cells, main command post.

PROCESSOR: G3, G2, G4, G1, G5, FSCoord, commander.

3.1.2 Develop Courses Of Action.

PROCESS DESCRIPTION: To identify feasible alternatives for the employment of nuclear weapons to accomplish the mission. (ST 100-9, pp. 4-5, 4-6)

INPUTS: Higher headquarters situation messages; Higher headquarters intelligence annex; Higher headquarters order/plan execution paragraph; Nuclear delivery unit status reports; Nuclear delivery unit situation reports; Maneuver unit situation reports; Combat service support unit status reports; Subordinate unit intelligence reports; Higher headquarters fire support annex; Higher headquarters administration/logistics directives; Higher headquarters task organization; Guidance on the circumstances and limits for nuclear weapons employment; Intelligence estimate; Operation estimate; Restated mission; Available nuclear employment resources; Record of specified nuclear employment tasks; Record of implied nuclear employment tasks; Direction to redetermine nuclear employment concept; Nuclear weapons targeting doctrine; Requirement to redetermine the nuclear employment concept; Staff and

subordinate headquarters planning and preparation time; Facts and assumptions regarding the employment of nuclear weapons; Modified course of action.

OUTPUTS: Alternative nuclear weapons-supported courses of action.

LOCATION: Plans, intelligence, fire support, and command cells, main command post.

PROCESSOR: G3, G2, FSCoord, commander.

3.1.2.1 Analyze Relative Combat Power.

PROCESS DESCRIPTION: To draw conclusions as to the types of friendly and enemy nuclear weapons-supported operations which can be conducted based on an estimate of the relationship of the combat power of friendly versus enemy forces. (ST 100-9, pp. 4-7 to 4-9)

INPUTS: Assumptions pertaining to the employment of nuclear weapons; Enemy capabilities; Enemy order of battle; Doctrine on integration of nuclear and conventional fires; Potential enemy courses of action; Delivery unit PNL status; Delivery unit locations; Delivery unit activities; Maneuver unit locations; Maneuver unit activities; Ordnance unit weapon status; Higher headquarters priority of nuclear fires; Higher headquarters PNL allocations; Higher headquarters nuclear support plan; Nuclear employment limitations to be considered during planning; Higher headquarters field artillery support plan; NASP locations; Higher headquarters concept of nuclear operations; List of supporting delivery units; List of supporting combat service support units; List of supporting target acquisition units; Description of tactical contingencies for which nuclear weapons must be considered for use; Surface-delivered nuclear resources available for planning; Air-delivered nuclear resources available for planning; Requirement to reformulate estimates.

OUTPUTS: Analysis of relative combat power.

(Requests for friendly unit current locations and activities and supply status updates may be directed to the "Determine Information Needs" function)

LOCATION: Plans, intelligence, fire support, and command cells, main command post.

PROCESSOR: G3, G2, FSCoord, commander.

3.1.2.1.1 Determine Friendly Nuclear Capabilities.

PROCESS DESCRIPTION: To determine the friendly capability to employ nuclear weapons in support of combat operations. (ST 100-9, pp. 4-7 to 4-9)

INPUTS: Delivery unit PNL status; Delivery unit locations; Delivery unit activities; Maneuver unit locations; Maneuver unit activities; Ordnance unit weapon status; Higher headquarters priority of nuclear fires; Higher headquarters PNL allocations; Current planned nuclear packages/ subpackages; Requirements for the maintenance of nuclear weapon reserves; Higher headquarters field artillery tactical missions; NASP locations; Higher headquarters concept of nuclear operations; List of supporting delivery units; List of supporting combat service support units; List of supporting target acquisition units; Description of tactical contingencies for which nuclear weapons must be considered for use; Surface-delivered nuclear weapons available for planning; Air-delivered nuclear resources available for planning; Assumptions pertaining to the employment of nuclear weapons; Doctrine on integration of nuclear and conventional fires; Requirement to reformulate estimates.

OUTPUTS: Analysis of friendly force nuclear capabilities.

(Requests for friendly unit current locations and activities and friendly unit supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans, fire support, and command cells, main command post.

PROCESSOR: G3, FSCoord, commander.

3.1.2.1.2 Determine Enemy Nuclear Capabilities.

PROCESS DESCRIPTION: To determine the enemy capability to employ nuclear weapons in support of combat operations. (ST 100-9, pp. 4-7 to 4-9)

INPUTS: Assumptions pertaining to the employment of nuclear weapons; Enemy capabilities; Enemy order of battle; Potential enemy courses of action; Requirement to reformulate estimates.

OUTPUTS: Analysis of enemy nuclear capabilities.

LOCATION: Intelligence, fire support, and command cells, main command post.

PROCESSOR: G2, FSCoord, commander.

3.1.2.1.3 Compare Friendly And Enemy Capabilities.

PROCESS DESCRIPTION: To compare friendly and enemy capabilities to employ nuclear weapons by establishing comparison values as a means of quantifying nuclear forces. (ST 100-9, pp. 4-7 to 4-9)

INPUTS: Analysis of friendly force nuclear capabilities; Analysis of enemy nuclear capabilities.

OUTPUTS: Analysis of relative nuclear combat power.

LOCATION: Plans, intelligence, fire support, and command cells, main command post.

PROCESSOR: G3, G2, FSCoord, commander.

3.1.2.2 Determine Support For Maneuver Schemes.

PROCESS DESCRIPTION: To identify the nuclear weapons support schemes for each selected nuclear-supported course of action. (Derived)

INPUTS: Analysis of relative nuclear combat power; Maneuver schemes; Modifications to plan of nuclear weapons support; Assumptions pertaining to the employment of nuclear weapons; Nuclear employment limitations to be considered during planning; Record of specified nuclear target attack tasks; Record of implied nuclear target attack tasks; Potential enemy courses of action; Delivery unit locations; Delivery unit activities; Maneuver unit locations; Projected maneuver unit locations; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Higher headquarters priority of nuclear fires; Higher headquarters PNL allocations; Higher headquarters nuclear support plan; Higher headquarters field artillery support plan; Higher headquarters concept of nuclear operations; List of supporting delivery units; Surface-delivered nuclear resources available for planning; Air-delivered nuclear resources available for planning; Requirement to reformulate estimates; Direction to develop alternative nuclear weapons-supported course of action; Description of tactical contingencies for which nuclear weapons must be considered for use.

OUTPUTS: Alternative nuclear weapons-supported maneuver schemes.
(Requests for friendly unit and enemy current and projected locations and activities may be directed to the "Determine Information Needs" function)

LOCATION: Plans, fire support, and command cells, main command post.

PROCESSOR: G3, FSCoord, commander.

3.1.2.2.1 Array Initial Forces.

PROCESS DESCRIPTION: To array nuclear delivery systems and make an initial allocation of nuclear weapons for each scheme of maneuver based on the initial array of maneuver forces. (Derived)

INPUTS: Analysis of relative nuclear combat power; Maneuver schemes; Delivery unit locations; Delivery unit activities; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Potential enemy courses of action; Higher headquarters priority of nuclear fires; Higher headquarters PNL allocations; Current planned nuclear packages/subpackages; Requirements for the maintenance of nuclear weapon reserves; Constraints on nuclear weapons targeting; Geographical restrictions on the employment of nuclear weapons; Yield restrictions on the employment of nuclear weapons; Higher headquarters field artillery tactical missions; Higher headquarters concept of nuclear operations; List of supporting delivery units; Record of specified nuclear target attack tasks; Record of implied nuclear target attack tasks; Description of tactical contingencies for which nuclear weapons must be considered for use; Surface-delivered nuclear weapons available for planning; Air-delivered nuclear resources available for planning; Requirement to reformulate estimates; Direction to develop alternative nuclear weapons-supported course of action; Modifications to the plan of nuclear weapons support; Assumptions pertaining to the employment of nuclear weapons.

OUTPUTS: Initial array of nuclear delivery systems; Initial allocation of nuclear weapons to support each scheme of maneuver.

(Requests for friendly unit and enemy current and projected locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans, fire support, and command cells, main command post.

PROCESSOR: G3, FSCoord, commander.

3.1.2.2 Determine Fire Control Measures.

PROCESS DESCRIPTION: To determine nuclear fire control measures in consonance with the schemes of maneuver. (Derived)

INPUTS: Analysis of relative nuclear combat power; Assumptions pertaining to the employment of nuclear weapons; Maneuver unit locations; Projected maneuver unit locations; Record of specified nuclear target attack tasks; Record of implied nuclear target attack tasks; Geographical restrictions on the employment of nuclear weapons; Description of tactical contingencies for which nuclear weapons must be considered for use; Yield restrictions on the employment of nuclear weapons.

OUTPUTS: Nuclear fire control measures for each scheme of maneuver; Alternative nuclear weapons-supported maneuver schemes.

(Requests for friendly unit current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

3.1.2.3 Develop Course Of Action Statements.

PROCESS DESCRIPTION: To prepare input to the course of action statements and associated sketches for each nuclear weapons-supported course of action developed. (ST 100-9, pp. 4-13, 4-14)

INPUTS: Alternative nuclear weapons-supported maneuver schemes; Doctrine on nuclear fire control measures.

OUTPUTS: Input to nuclear-weapons supported course of action statements; Course of action nuclear fire control measure sketches.

LOCATION: Plans, fire support, and command cells, main command post.

PROCESSOR: G3, FSCoord, commander.

3.1.2.3.1 Describe Role Of Nuclear Weapons.

PROCESS DESCRIPTION: To describe how nuclear fires will support the maneuver forces in close, deep, and covering force operations within each course of action. (ST 100-9, p. 4-12)

INPUTS: Alternative nuclear weapons-supported maneuver schemes; Initial array of nuclear delivery systems; Initial allocation of nuclear weapons to support each scheme of maneuver.

OUTPUTS: Description of the role of nuclear weapons in each course of action.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

3.1.2.3.2 Sketch Fire Control Measures.

PROCESS DESCRIPTION: To develop a sketch of the nuclear fire control measures for each course of action. (ST 100-9, p. 4-14)

INPUTS: Nuclear fire control measures for each scheme of maneuver; Doctrine on nuclear fire control measures.

OUTPUTS: Course of action nuclear fire control measure sketches.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

3.1.3 Analyze Courses Of Action.

PROCESS DESCRIPTION: To determine the advantages and disadvantages of alternative nuclear employment courses of action and to compare the relative merits and shortfalls of all alternatives. (FM 100-30, pp. A-11 to A-13)

INPUTS: Alternative nuclear weapons-supported courses of action; Facts and assumptions regarding the employment of nuclear weapons; Higher headquarters intelligence annex; Higher headquarters order/plan execution paragraph; Intelligence estimate; Guidance on the circumstances and limits for nuclear weapons employment; Direction to redetermine the nuclear employment concept; Requirement to redetermine nuclear employment concept; Staff and subordinate headquarters planning and preparation time; Modified course of action.

OUTPUTS: Comparison of alternative nuclear weapons-supported courses of action.

LOCATION: Intelligence, plans, fire support, CSS, and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

3.1.3.1 War Game Courses Of Action.

PROCESS DESCRIPTION: To conduct an action-reaction-counteraction process of mentally "fighting" each course of action against the likely enemy course(s) of action. (ST 100-9, pp. 5-8 to 5-13)

INPUTS: Input to nuclear weapons-supported course of action statements; Course of action nuclear fire control measure sketches; Enemy nuclear intentions; Potential enemy courses of action; Order/plan preparation time; Modifications to the plan of nuclear weapons support; Modifications to maneuver scheme; Requirement to reformulate estimates.

OUTPUTS: Analyzed nuclear weapons-supported courses of action.

LOCATION: Plans and command cells, main command post.

PROCESSOR: G2, G3, FSCoord, commander.

3.1.3.1.1 Visualize Nuclear Employment In Battle.

PROCESS DESCRIPTION: To mentally visualize the employment of nuclear weapons within the scheme of maneuver in terms of their desired effects in facilitating each course of action. (Derived)

INPUTS: Description of the role of nuclear weapons in each course of action; Course of action nuclear fire control measure sketches; Order/plan preparation time; Modifications to the plan of nuclear weapons support; Modifications to maneuver scheme; Requirement to reformulate estimates.

OUTPUTS: Visualization of nuclear employment in each course of action.

LOCATION: Plans, intelligence, fire support, and command cells, main command post.

PROCESSOR: G3, G2, FSCoord, commander.

3.1.3.1.2 Determine Enemy Actions/Reactions.

PROCESS DESCRIPTION: To visualize the probable enemy reaction(s) to the friendly employment of nuclear weapons within each course of action. (ST 100-9, p. 5-9)

INPUTS: Enemy nuclear intentions; Potential enemy courses of action; Order/plan preparation time; Visualization of nuclear employment in each course of action.

OUTPUTS: Visualization of enemy reaction to nuclear employment.

LOCATION: Plans, intelligence, fire support, and command cells, main command post.

PROCESSOR: G3, G2, FSCoord, commander.

3.1.3.1.3 Determine Nuclear Support For Counteractions.

PROCESS DESCRIPTION: To determine the possible additional requirements for nuclear weapons based upon expected enemy counteractions within each course of action. (Derived)

INPUTS: Enemy nuclear intentions; Potential enemy courses of action; Order/plan preparation time; Visualization of enemy reaction to nuclear employment; Description of the role of nuclear weapons in each course of action; Maneuver counteractions to enemy reactions.

OUTPUTS: Nuclear weapons support for maneuver counteractions.

LOCATION: Plans, intelligence, fire support, and command cells, main command post.

PROCESSOR: G3, G2, FSCoord, commander.

3.1.3.2 Identify Advantages And Disadvantages.

PROCESS DESCRIPTION: To identify and annotate the strong points and problems or deficiencies associated with each nuclear-supported course of action. (ST 100-9, p. 5-14)

INPUTS: Analyzed nuclear weapons-supported courses of action; Facts pertaining to the employment of nuclear weapons; Nuclear employment limitations to be considered during planning; Description of the desired results of nuclear weapons employment in each tactical contingency; Assumptions pertaining to the employment of nuclear weapons; Higher commanders' intent.

OUTPUTS: Advantages and disadvantages of each nuclear weapons-supported course of action.

LOCATION: Plans, intelligence, CSS, fire support and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

3.1.3.2.1 Determine Nuclear Employment Advantages.

PROCESS DESCRIPTION: To determine the advantages associated with the employment of nuclear weapons for each course of action. (Derived)

INPUTS: Visualization of nuclear employment in each course of action; Visualization of enemy reaction to nuclear employment; Nuclear weapons support for maneuver counteractions; Assumptions pertaining to the employment of nuclear weapons; Higher commander's intent; Description of the damage objectives of nuclear weapons in each tactical contingency; Description of the nuclear weapons contribution to mission accomplishment in each tactical contingency; Degree of acceptable risk to be considered during planning; Constraints on nuclear weapons employment to be considered during planning; Restrictions on nuclear weapons employment to be considered during planning; Facts pertaining to the employment of nuclear weapons.

OUTPUTS: Advantages associated with the employment of nuclear weapons in each course of action.

LOCATION: Plans, intelligence, CSS, fire support, and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

3.1.3.2.2 Determine Nuclear Employment Disadvantages.

PROCESS DESCRIPTION: To determine the disadvantages associated with the employment of nuclear weapons for each course of action. (Derived)

INPUTS: Visualization of nuclear employment in each course of action; Visualization of enemy reaction to nuclear employment; Nuclear weapons support for maneuver counteractions; Assumptions pertaining to the employment of nuclear weapons; Higher commander's intent; Description of the damage objectives of nuclear weapons in each tactical contingency; Description of the nuclear weapons contribution to mission accomplishment in each tactical contingency; Degree of acceptable risk to be considered during planning; Constraints on nuclear weapons employment to be considered during planning; Restrictions on nuclear weapons employment to be considered during planning; Facts pertaining to the employment of nuclear weapons.

OUTPUTS: Disadvantages associated with the employment of nuclear weapons in each course of action.

LOCATION: Plans, intelligence, CSS, fire support, and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

3.1.3.2.3 Record Advantages And Disadvantages.

PROCESS DESCRIPTION: To record the advantages, disadvantages, and supporting rationale for each nuclear weapons-supported course of action. (Derived)

INPUTS: Advantages associated with the employment of nuclear weapons in each course of action; Disadvantages associated with the employment of nuclear weapons in each course of action.

OUTPUTS: Record of advantages and disadvantages of each nuclear weapons-supported course of action.

LOCATION: Plans, intelligence, CSS, and fire support cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord.

3.1.3.3 Compare Courses Of Action.

PROCESS DESCRIPTION: To compare feasible nuclear weapons-supported courses of action to one another based upon their respective advantages and disadvantages and their supportability from the perspective of each staff officer and the commander. (ST100-9, pp. 5-14, 5-15)

INPUTS: Record of advantages and disadvantages of each nuclear weapons-supported course of action.

OUTPUTS: Comparison of course of action advantages and disadvantages; Comparison of intelligence supportability of each course of action; Comparison of fire support supportability of each course of action; Comparison of fire support supportability of each course of action; Comparison of CMO supportability of each course of action; Comparison of personnel supportability of each course of action; Commander's course of action analysis.

LOCATION: Plans, intelligence, CSS, fire support and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, commander.

3.2 Perform Targeting.

PROCESS DESCRIPTION: To determine which enemy combat capabilities will be attacked by which means and under which conditions. (FC 100-15-1, pp. B-1, B-2)

INPUTS: Higher headquarters orders/plans; External situation reports; Commander/staff officer estimates; Nuclear weapons employment doctrine; Intelligence doctrine; Fire support doctrine; Commander's initial planning guidance; Analysis of the nuclear employment aspects of the mission; SOPs; Replanning requirements.

OUTPUTS: Nuclear targeting information.
(Requests for situation and status update may be directed to the "Monitor Situation" function.)

LOCATION: Main command post.

PROCESSOR: Commander and staff.

3.2.1 Translate Enemy Resources Into Targets.

PROCESS DESCRIPTION: To translate the general resources with which the enemy would respond to nuclear-supported courses of action into their related capabilities, weapon systems, and units, and to determine how the behavior of such targets and target sets must be modified. (FC 100-15-1, p. B-6, B-7)

INPUTS: Higher headquarters situation messages; Subordinate unit intelligence reports; Comparison of alternative nuclear weapons-supported courses of action; Nuclear weapons targeting doctrine; Higher headquarters intelligence annex; Alternative nuclear weapons-supported courses of action; Intelligence estimate; Staff and subordinate headquarters planning and preparation time; Requirement to redetermine nuclear employment concept.

OUTPUTS: Relevant enemy targets/target sets; Desired modification to target behavior.
(Requests for current and projected enemy situation update may be directed to the "Request Information" function.)

LOCATION: Plans, intelligence, and fire support cells, main command post.

PROCESSOR: G2, G3, FSCoord, commander.

3.2.1.1 Identify Relevant Targets.

PROCESS DESCRIPTION: To identify specific enemy targets/target sets which are capable of and likely to interfere with friendly courses of action. (FC 100-15-1, p. B-7)

INPUTS: Doctrine on suitable nuclear targets; Potential enemy courses of action; Input to nuclear-weapons supported course of action statements; Course of action nuclear fire control measure sketches; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Enemy order of battle; Order/plan preparation time; Requirement to retarget.

OUTPUTS: Relevant enemy targets/target sets.

(Requests for enemy current and projected locations and activities may be directed to the "Determine Information Needs" function.)

LOCATION: Plans, intelligence, and fire support cells, main command post.

PROCESSOR: G2, G3, FSCoord, commander.

3.2.1.2 Determine Desired Modification To Target Behavior.

PROCESS DESCRIPTION: To determine how the enemy target's activity is to be modified in order to reduce the enemy's capability for interfering with friendly actions. (derived)

INPUTS: Relevant enemy targets/target sets; Analyzed nuclear weapons-supported courses of action.

OUTPUTS: Desired modification to target behavior.

LOCATION: Plans, intelligence, and fire support cells, main command post.

PROCESSOR: G2, G3, FSCoord, commander.

3.2.2 Designate Targets For Nuclear Engagement.

PROCESS DESCRIPTION: To identify those relevant targets in the area of operations which must be attacked with nuclear weapons or which may require attack by nuclear weapons. (FC 100-15-1, pp. E-2, E-3)

INPUTS: Higher headquarters situation messages; Subordinate unit intelligence reports; Comparison of alternative nuclear weapons-supported courses of action; Sensor doctrine; Higher headquarters task organization; Nuclear delivery system doctrine; Available nuclear employment resources; Relevant enemy targets/target sets; Desired modification to target behavior; Guidance on the circumstances and limits for nuclear weapons employment; Tactical SOP on nuclear weapons employment; Requirement to redetermine nuclear employment concept; Staff and subordinate headquarters planning and preparation time.

OUTPUTS: Targets designated for nuclear employment planning.

(Requests for current and projected enemy situation update may be directed to the "Request Information" function.)

LOCATION: Plans, intelligence, fire support, and command cells, main command post.

PROCESSOR: G2, G3, FSCoord, ALO, commander.

3.2.2.1 Establish Target Defeat Criteria.

PROCESS DESCRIPTION: To determine which targets are candidates for attack by nuclear weapons and to determine for each target the damage which must be inflicted by nuclear weapons in order to achieve the desired modification in its activity. (FC 100-15-1, pp. E-2, E-3)

INPUTS: Relevant enemy targets/target sets; Desired modification to target behavior; Requirement to retarget; Tactical SOP on targeting procedures; Description of tactical contingencies for which nuclear weapons must be considered for use; Description of the desired results of nuclear weapons employment in each tactical contingency; Nuclear employment limitations to be considered during planning; Order/plan preparation time.

OUTPUTS: Nuclear target descriptions; Required target damage.

LOCATION: Intelligence, plans, fire support, and command cells, main command post.

PROCESSOR: G2, G3, FSCoord, commander.

3.2.2.1.1 Determine Nuclear Targets.

PROCESS DESCRIPTION: To determine those enemy targets which are candidates for nuclear attack based upon friendly conventional fires capability, target proximity to friendly forces, and timing considerations. (Derived)

INPUTS: Relevant enemy targets/target sets; Requirement to retarget; Tactical SOP on targeting procedures; Description of tactical contingencies for which nuclear weapons must be considered for use; Constraints on the employment of nuclear weapons to be considered during planning; Restrictions on the employment of nuclear weapons to be considered during planning; Order/plan preparation time.

OUTPUTS: Nuclear target descriptions.

LOCATION: Plans, intelligence, fire support, and command cells, main command post.

PROCESSOR: G3, G2, FSCoord, commander.

3.2.2.1.2 Determine Required Target Damage.

PROCESS DESCRIPTION: To determine the degree of damage to the target required to achieve the desired modification to target behavior and cause the outcomes envisioned during course of action wargaming. (Derived)

INPUTS: Nuclear target descriptions; Desired modification to target behavior; Requirement to retarget; Tactical SOP on targeting procedures; Description of the desired results of nuclear weapons employment in each tactical contingency; Restrictions on the employment of nuclear weapons to be considered during planning; Order/plan preparation time.

OUTPUTS: Required target damage.

LOCATION: Plans, intelligence, fire support, and command cells, main command post.

PROCESSOR: G3, G2, FSCoord, commander.

3.2.2.2 Establish Employment Time Frames.

PROCESS DESCRIPTION: To establish or revise the general time frame(s) within which nuclear weapons targets must be attacked in order to accomplish specific operational objectives. (FC 100-15-1, p. E-2)

INPUTS: Nuclear target descriptions; Required target damage; Analyzed nuclear weapons-supported courses of action; Description of tactical contingencies for which nuclear weapons must be considered for use; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Order/plan preparation time; Tactical SOP on targeting procedures.

OUTPUTS: Target attack time frames.
(Requests for enemy current and projected locations and activities may be directed to the "Determine Information Needs" function.)

LOCATION: Intelligence, plans, fire support, and command cells, main command post.

PROCESSOR: G2, G3, FSCoord, commander.

3.2.2.3 Determine Trigger Events.

PROCESS DESCRIPTION: To determine the observable enemy target activity or event(s) which will serve to signal initiation of friendly nuclear employment request and those events which will serve to signal execution of nuclear weapons target attack. (FC 100-15-1, pp. B-8, B-9)

INPUTS: Nuclear target descriptions; IPB event templates; IPB decision support templates; Description of tactical contingencies for which nuclear weapons must be considered for use; Analyzed nuclear weapons-supported courses of action; Target attack time frames; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Tactical SOP on targeting procedures.

OUTPUTS: Nuclear attack trigger events.
(Requests for enemy current and projected locations and activities may be directed to the "Determine Information Needs" function.)

LOCATION: Plans, intelligence, fire support, and command cells, main command post.

PROCESSOR: G2, G3, FSCoord, commander.

3.2.2.3.1 Identify General Events.

PROCESS DESCRIPTION: To determine the general battlefield situation and events which will lead to a request/authorization to employ nuclear weapons. (Derived)

INPUTS: Nuclear target descriptions; IPB event templates; Description of tactical contingencies for which nuclear weapons must be considered for use; Visualization of nuclear employment in each course of action; Visualization of enemy reaction to nuclear employment; Target attack time frames; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Tactical SOP on targeting procedures.

OUTPUTS: Course of action events for initiation of nuclear employment request/authorization.
(Requests for enemy current and projected locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans, command, and fire support cells, main command post.

PROCESSOR: G3, FSCoord, commander.

3.2.2.3.2 Identify Specific Decision Points.

PROCESS DESCRIPTION: To identify those decision points which will serve to trigger the request/authorization to employ nuclear weapons and those which will serve to trigger execution of nuclear attack. (Derived)

INPUTS: Nuclear target descriptions; IPB decision support templates; Course of action events for initiation of nuclear employment request/ authorization; Target attack time frames; Projected enemy locations; Projected enemy activities; Tactical SOP on targeting procedures.

OUTPUTS: Course of action nuclear employment request/ authorization/execution decision points. (Requests for enemy projected locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans, intelligence, fire support, and command cells, main command post.

PROCESSOR: G3, G2, FSCoord, commander.

3.2.2.4 Determine Target Development Means.

PROCESS DESCRIPTION: To determine the organic or supporting intelligence/RSTA sources to be used to develop each relevant target. (FC 100-15-1, pp. B-4 to B-5)

INPUTS: Nuclear attack trigger events; Nuclear target descriptions; IPB event templates; Sensor acquisition capabilities; Sensor processing time frames; Sensor tasking response times; List of supporting target acquisition units.

OUTPUTS: Identified target development means.

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

3.2.2.4.1 Forecast Target Activity.

PROCESS DESCRIPTION: To predict enemy target activities in order to focus sensors by type and location. (FC 100-15-1, p. B-7)

INPUTS: Course of action events for initiation of nuclear employment request/authorization; Course of action nuclear employment request/ authorization/execution decision points; Nuclear target descriptions; IPB event templates.

OUTPUTS: Forecasted nuclear target activities.

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

3.2.2.4.2 Identify Observable Parameters.

PROCESS DESCRIPTION: To define the observable characteristics of nuclear targets in order to further focus friendly sensors. (FC 100-15-1, p. B-7)

INPUTS: Course of action events for initiation of nuclear employment request/authorization; Course of action nuclear employment request/ authorization/execution decision points; Nuclear target descriptions; IPB event templates.

OUTPUTS: Nuclear target observable parameters.

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

3.2.2.4.3 Focus Collection Management.

PROCESS DESCRIPTION: To match predicted enemy target activities and observable characteristics to available detection means. (FC 100-15-1, p. B-7) and to specify the intelligence means and parameters (location accuracy, timeliness, etc.) to be used in nuclear target development. (FM 100-30, p. 4-5)

INPUTS: Forecasted nuclear target activities; Nuclear target observable parameters; Nuclear target descriptions; Sensor acquisition capabilities; Sensor processing time frames; Sensor tasking response times; List of supporting target acquisition units.

OUTPUTS: Match of available sensors to nuclear targets.

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

3.2.2.5 Determine Target Attack Means.

PROCESS DESCRIPTION: To determine the organic or supporting nuclear attack means for each relevant target. (FC 100-15-1, pp. B-3 to B-5)

INPUTS: Nuclear delivery system capabilities; Nuclear delivery system response times; Surface-delivered nuclear resources available for planning; Air-delivered nuclear resources available for planning; Nuclear target descriptions; Required target damage; Nuclear attack trigger events.

OUTPUTS: Identified target attack means.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord, ALO.

3.2.2.5.1 Determine Available Systems.

PROCESS DESCRIPTION: To determine the general systems (by type and number) available to employ nuclear weapons. (Derived)

INPUTS: Course of action nuclear employment request/ authorization/execution decision points; Surface nuclear systems available for planning; Air-delivered nuclear resources available for planning; Nuclear delivery system response times.

OUTPUTS: Available target attack means.

LOCATION: Fire support cells, main command post.

PROCESSOR: FSCoord, ALO.

3.2.2.5.2 Match Systems To Destruction Requirements.

PROCESS DESCRIPTION: To match general nuclear employment systems to targets based on target location and target damage required. Included is the determination of a recommended allocation of nuclear weapons to subordinate headquarters for planning. (Derived)

INPUTS: Available target attack means; Nuclear delivery system capabilities; Nuclear delivery system response times; Nuclear target descriptions; Required target damage.

OUTPUTS: Identified target attack means.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord, ALO.

3.2.3 Conduct Nuclear Target Value Analysis.

PROCESS DESCRIPTION: To prioritize relevant targets/target sets for nuclear weapons based on target payoff (value of attacking versus cost of attacking). (FM 100-30, pp. 4-5 to 4-6)

INPUTS: Targets designated for nuclear employment planning; Comparison of alternative nuclear weapons-supported courses of action; Desired modification to target behavior; Tactical SOP on nuclear weapons employment.

OUTPUTS: Prioritized listing of nuclear targets for each course of action.

LOCATION: Intelligence, plans, and fire support cells, main command post.

PROCESSOR: G2, G3, FSCoord.

3.2.3.1 Determine Relative Criticality Of Targets.

PROCESS DESCRIPTION: To determine the relative criticality of enemy targets/target sets based on their location and ability to hinder friendly mission accomplishment. (FM 100-30, p. 4-5)

INPUTS: Nuclear target descriptions; Analyzed nuclear weapons-supported courses of action; Desired modification to target behavior.

OUTPUTS: Relative criticality of nuclear targets.

LOCATION: Intelligence and plans cells, main command post.

PROCESSOR: G2, G3.

3.2.3.2 Compare Target Development Requirements.

PROCESS DESCRIPTION: To compare the relative ease/difficulty of developing the various enemy nuclear targets/target sets. (FM 100-30, p. 4-5)

INPUTS: Nuclear target descriptions; Analyzed nuclear weapons-supported courses of action; Identified target development means.

OUTPUTS: Relative target development requirements.

LOCATION: Intelligence, plans, and fire support cells, main command post.

PROCESSOR: G2, G3, FSCoord.

3.2.3.3 Compare Target Destruction Requirements.

PROCESS DESCRIPTION: To compare the relative difficulty of achieving the required damage on enemy nuclear targets. (FM 100-30, p. 4-5)

INPUTS: Nuclear target descriptions; Analyzed nuclear weapons-supported courses of action; Identified target attack means.

OUTPUTS: Relative target attack requirements.

LOCATION: Intelligence, plans, and fire support cells, main command post.

PROCESSOR: G2, G3, FSCoord.

3.2.3.4 Prioritize Nuclear Targets.

PROCESS DESCRIPTION: To prioritize enemy nuclear targets based on target payoff. (FM 100-30, p. 4-5)

INPUTS: Tactical SOP on targeting procedures; Relative criticality of nuclear targets; Relative target development requirements; Relative target attack requirements.

OUTPUTS: Prioritized listing of targets for each course of action.

LOCATION: Intelligence, plans, and fire support cells, main command post.

PROCESSOR: G2, G3, FSCoord.

3.3 Decide On Course Of Action.

PROCESS DESCRIPTION: To select a course of action or set of courses of action as the basis for employing nuclear weapons in the accomplishment of the mission. (ST 100-9, pp. 6-1, 6-2)

INPUTS: Commander/staff officer estimates; Nuclear targeting information; Analysis of the nuclear employment aspects of the mission; Higher headquarters orders/plans; SOPs, Replanning requirements.

OUTPUTS: Commander's decision and concept for the employment of nuclear weapons.

LOCATION: Main command post.

PROCESSOR: Commander and staff.

3.3.1 Recommend Course Of Action.

PROCESS DESCRIPTION: To select a course of action or set of courses of action for recommendation and presentation to the approving authority. (ST 100-9, p. 6-1)

INPUTS: Alternative nuclear weapons-supported courses of action; Comparison of alternative nuclear supported courses of action; Prioritized listing of nuclear targets for each course of action; Tactical SOP on plan and order development.

OUTPUTS: Staff nuclear course of action recommendation.

LOCATION: Plans, intelligence, fire support, CSS, and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, chief of staff.

3.3.1.1 Select Preferred Course Of Action.

PROCESS DESCRIPTION: To arrive at an individual staff officer prioritization of courses of action based on feasibility, supportability, and likelihood of success. (ST 100-9, pp. 5-14, 5-15)

INPUTS: Comparison of course of action advantages and disadvantages; Prioritized listing of targets for each course of action; Intelligence supportability of each course of action; Fire support supportability of each course of action; Logistic supportability of each course of action; CMO supportability of each course of action; Personnel supportability of each course of action; Tactical SOP on staff responsibilities for order/plan development and coordination.

OUTPUT: Staff prioritization of nuclear weapons-supported courses of action.

LOCATION: Plans, intelligence, fire support, and CSS cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord.

3.3.1.2 Establish Staff Recommendation.

PROCESS DESCRIPTION: To select the nuclear supported course of action which has the greatest probability of success against the most likely/ dangerous enemy course of action yet also has branches which will facilitate success against other likely enemy courses of action. (Derived)

INPUTS: Staff prioritization of nuclear weapons-supported courses of action.

OUTPUTS: Staff agreement on preferred course of action.

LOCATION: Plans, intelligence, fire support, CSS, and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, chief of staff.

3.3.1.2.1 Compare Preferred Courses Of Action.

PROCESS DESCRIPTION: To compare the various staff officers' preferred nuclear weapons-supported courses of action in terms of overall supportability by considering the findings of each officer. (ST 100-9, p. 5-15)

INPUTS: G1 prioritization of nuclear weapons-supported courses of action; G2 prioritization of nuclear weapons-supported courses of action; G3 prioritization of nuclear weapons-supported courses of action; G4 prioritization of nuclear weapons-supported courses of action; G5 prioritization of nuclear weapons-supported courses of action; FSCoord prioritization of nuclear weapons-supported courses of action.

OUTPUTS: Intra-staff comparison of courses of action.

LOCATION: Plans, intelligence, fire support, and CSS, cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord.

3.3.1.2.2 Decide On Recommendation.

PROCESS DESCRIPTION: To reach an agreement among the staff on which nuclear weapons-supported course of action to recommend to the commander. (ST 100-9, p. 5-15)

INPUTS: Intra-staff comparison of courses of action.

OUTPUTS: Staff agreement on preferred course of action.

LOCATION: Plans, intelligence, fire support, CSS, and command cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord, chief of staff.

3.3.1.3 Present Recommendation.

PROCESS DESCRIPTION: To present to the approving authority the nuclear weapons-supported courses of action considered and to recommend the course of action identified as having the greatest probability for success. (ST 100-9, p. 6-1)

INPUTS: Staff agreement on preferred course of action; Alternative nuclear weapons-supported maneuver schemes; Comparison of course of action advantages and disadvantages.

OUTPUTS: Staff nuclear course of action recommendation.

LOCATION: Command cell, main command post.

PROCESSOR: Chief of staff, G1, G2, G3, G4, G5, FSCoord.

3.3.1.3.1 Outline Courses Of Action.

PROCESS DESCRIPTION: To present to the commander each nuclear weapons-supported course of action considered along with its advantages and disadvantages. (ST 100-9, p. 6-1)

INPUTS: Alternative nuclear weapons-supported maneuver schemes; Record of advantages and disadvantages of each nuclear weapons-supported course of action.

OUTPUTS: Outline of each nuclear weapons-supported course of action considered.

LOCATION: Command cell, main command post.

PROCESSOR: Chief of staff, G1, G2, G3, G4, G5, FSCoord.

3.3.1.3.2 State Recommendation.

PROCESS DESCRIPTION: To clearly indicate to the commander which nuclear weapons-supported course of action is recommended by the staff. (ST 100-9, p. 6-1)

INPUTS: Intra-staff comparison of courses of action; Staff agreement on preferred course of action.

OUTPUTS: Staff nuclear course of action recommendation.

LOCATION: Command cell, main command post.

PROCESSOR: Chief of staff, G3.

3.3.2 Approve/Modify Course Of Action.

PROCESS DESCRIPTION: To approve, disapprove, or modify a recommended course of action to serve as the basis for the employment of nuclear weapons. (ST 100-9, p. 6-1)

INPUTS: Staff nuclear course of action recommendation; Comparison of alternative nuclear supported courses of action; Requirement to redetermine the nuclear employment concept.

OUTPUTS: Approved nuclear weapons-supported course of action; Modified course of action; Direction to redetermine the nuclear employment concept.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.3.2.1 Approve Recommended Course Of Action.

PROCESS DESCRIPTION: To approve the nuclear supported course of action recommended by the staff. (ST 100-9, p. 6-1)

INPUTS: Staff nuclear course of action recommendation; Commander's course of action analysis; Requirement to review course of action decision.

OUTPUTS: Approved nuclear weapons-supported course of action.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.3.2.2 Modify Recommended Course Of Action.

PROCESS DESCRIPTION: To modify the nuclear weapons-supported course of action recommended by the staff. (ST 100-9, p. 6-1)

INPUTS: Staff nuclear course of action recommendation; Commander's course of action analysis; Requirement to review course of action decision.

OUTPUTS: Modifications to maneuver scheme; Modifications to plan of nuclear weapons support.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.3.2.3 Direct Alternative Course Of Action.

PROCESS DESCRIPTION: To direct that a nuclear weapons-supported course of action different from the one recommended by the staff be implemented. (Note: If the new course of action is not one of those already considered by the staff, they may have to return to course of action analysis.) (ST 100-9, p. 6-1)

INPUTS: Staff nuclear course of action recommendation; Commander's course of action analysis; Requirement to review course of action decision.

OUTPUTS: Direction to develop alternative nuclear weapons-supported course of action.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.3.3 Announce Decision And Concept.

PROCESS DESCRIPTION: To refine a course of action into a clear decision and elaborate that decision into a concept for the employment of nuclear weapons. (ST 100-9, p. 6-2)

INPUTS: Approved nuclear weapons-supported course of action; Modified course of action; Comparison of alternative nuclear supported courses of action; Higher headquarters order/plan execution paragraph; Record of specified nuclear employment tasks; Record of implied nuclear employment tasks.

OUTPUTS: Concept of nuclear employment operations.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.3.3.1 Describe Concept Of Nuclear Employment Operations.

PROCESS DESCRIPTION: To describe for the staff the concept of nuclear employment operations by expanding the course of action to indicate how nuclear weapons will be planned to ensure mission accomplishment. (Derived)

INPUTS: Modifications to plan of nuclear weapons support; Approved nuclear weapons-supported course of action; Commander's course of action analysis.

OUTPUTS: Commander's course of action description.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.3.3.2 Articulate Intent.

PROCESS DESCRIPTION: To articulate to the staff a clear picture of what the commander desires to accomplish through the employment of nuclear weapons in support of the overall concept of the operation. (ST 100-9, p. 6-2)

INPUTS: Modifications to plan of nuclear weapons support; Approved nuclear weapons-supported course of action; Higher commander's intent; Commander's course of action analysis.

OUTPUTS: Commander's statement of intent.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.3.3.3 Describe Nuclear Objectives In Combat Operations.

PROCESS DESCRIPTION: To specify the purpose of nuclear employment in the covering force battle, deep operations, and in close operations. (Derived)

INPUTS: Modifications to plan of nuclear weapons support; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Approved nuclear weapons-supported course of action; Commander's course of action analysis.

OUTPUTS: Description of the purpose of nuclear weapons in combat operations.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.3.3.3.1 Describe Role In Covering Force Operations.

PROCESS DESCRIPTION: To describe the purpose of nuclear weapons planned for employment in support of the covering force battle. (Derived)

INPUTS: Modifications to plan of nuclear weapons support; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Course of action covering force concept; Commander's course of action analysis.

OUTPUTS: Description of the purpose of nuclear weapons in covering force operations.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.3.3.3.2 Describe Role In Deep Operations.

PROCESS DESCRIPTION: To describe the purpose of nuclear weapons planned for employment in support of deep operations. (Derived)

INPUTS: Modifications to plan of nuclear weapons support; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Course of action deep operations concept; Commander's course of action analysis.

OUTPUTS: Description of the purpose of nuclear weapons in deep operations.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.3.3.3 Describe Role In Close Operations.

PROCESS DESCRIPTION: To describe the purpose of nuclear weapons planned for employment in support of close operations. (Derived)

INPUTS: Modifications to plan of nuclear weapons support; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Course of action close operations concept; Commander's course of action analysis.

OUTPUTS: Description of the purpose of nuclear weapons in close operations.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4. Issue Supplementary Planning Guidance.

PROCESS DESCRIPTION: To provide the additional command guidance necessary to integrate nuclear employment planning into the overall force concept of the operation. (FM 101-5, p. 5-9)

INPUTS: Commander's decision and concept for the employment of nuclear weapons; Higher headquarters orders/plans; Intelligence doctrine; Fire support doctrine; Analysis of the nuclear employment aspects of the mission; SOPs; Commander/staff estimates; Nuclear targeting information; Replanning requirements.

OUTPUTS: Commander's supplementary planning guidance; Formatted orders/plans.

LOCATION: Main command post.

PROCESSOR: Commander and staff.

3.4.1. Specify Nuclear Employment Authority Criteria.

PROCESS DESCRIPTION: To specify the tactical circumstances and decision points for requesting or initiating nuclear weapons employment authority. (FM 100-30, p. A-17)

INPUTS: Targets designated for nuclear employment planning; Concept of nuclear employment operations; Limitations on the employment of nuclear weapons; Tactical SOP on nuclear weapons employment; Prioritized listing of nuclear targets for each course of action; Requirement to redetermine the nuclear employment concept.

OUTPUTS: Guidance for the initiation/request of authority to employ nuclear weapons.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.1.1 Describe Circumstances For Employment Request.

PROCESS DESCRIPTION: To describe the tactical and/or operational circumstances under which a request for nuclear employment authority to higher headquarters or a grant of employment authority to subordinate headquarters will be made. (FM 100-30, p. A-17)

INPUTS: Commander's course of action description; Description of the purpose of nuclear weapons in combat operations; Tactical SOP on nuclear release procedures; Prioritized listing of targets for each course of action; Constraints on the employment of nuclear weapons; Restrictions on the employment of nuclear weapons; Requirement to revise supplementary planning guidance.

OUTPUTS: Description of tactical circumstances for nuclear employment request/authorization.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.1.2 Identify Employment Decision Points.

PROCESS DESCRIPTION: To establish the specific points within the tactical situation at which the decision to request or grant authorization to expend nuclear weapons will be made. (FM 100-30, p. A-17)

INPUTS: Commander's course of action description; Description of tactical circumstances for nuclear employment request/authorization; Course of action events for initiation of nuclear employment request/authorization; Course of action nuclear employment request/authorization/execution decision points; IPB decision support templates; Requirement to revise supplementary planning guidance.

OUTPUTS: Description of nuclear employment request/ authorization decision points.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.2 Provide Nuclear Weapon Attack Guidance.

PROCESS DESCRIPTION: To prescribe the guidance for target damage criteria revision, restrike of targets, and planning for alternative nuclear weapons-supported courses of action. (FM 100-30, p. A-17)

INPUTS: Prioritized listing of nuclear targets for each course of action; Targets designated for nuclear employment planning; Comparison of alternative nuclear weapons-supported courses of action; Staff nuclear course of action recommendation; Desired modification to target behavior; Concept of nuclear employment operations; Tactical SOP on nuclear weapons employment; Requirement to redetermine the nuclear employment concept.

OUTPUTS: Nuclear weapons attack guidance.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.2.1 Provide Guidance For Alternative Planning.

PROCESS DESCRIPTION: To designate the alternative nuclear weapons-supported courses of action for which the staff must conduct employment analysis planning. (FC 100-15-1, p. E-2)

INPUTS: Commander's course of action analysis; Staff prioritization of nuclear weapons-supported courses of action; Prioritized listing of targets for each course of action; Requirement to revise supplementary planning guidance.

OUTPUTS: Alternative courses of action for which nuclear employment planning is to be performed.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.2.1.1 Specify Alternative Courses Of Action.

PROCESS DESCRIPTION: To specify alternative nuclear weapons-supported courses of action for which the commander desires nuclear employment analysis, target development, and target attack planning to be performed. (FC 100-15-1, p. E-2)

INPUTS: Commander's course of action analysis; Staff prioritization of nuclear weapons-supported courses of action; Prioritized listing of targets for each course of action; Requirement to revise supplementary planning guidance.

OUTPUTS: Alternative nuclear weapons-supported courses of action to accomplish primary mission.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.2.1.2 Specify Contingency Role Of Nuclear Weapons.

PROCESS DESCRIPTION: To describe the situation or enemy action which could require the employment of nuclear weapons as part of contingency plans. (FC 100-15-1, p. E-2)

INPUTS: Commander's course of action analysis; Prioritized listing of targets for each course of action; Staff prioritization of nuclear weapons-supported courses of action; Requirement to revise supplementary planning guidance.

OUTPUTS: Contingency roles for nuclear weapons in course of action branches and sequels.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.2.2 Specify Damage/Defeat Criteria Revision.

PROCESS DESCRIPTION: To specify the guidance on the procedure for damage objective revision and defeat criteria revision for area and point nuclear targets if other than that prescribed in SOP. (FM 101-31-1, p. 3)

INPUTS: Tactical SOP on nuclear target damage criteria; Commander's course of action description; Commander's intent; Prioritized listing of targets for each course of action; Required target damage; Requirement to revise supplementary planning guidance.

OUTPUTS: Guidance on target damage/defeat criteria revision.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.2.3 Specify Restrike Criteria.

PROCESS DESCRIPTION: To establish the conditions under which targets may be reattacked with nuclear weapons. (FM 100-30, p. A-17)

INPUTS: Required target damage; Commander's course of action description; Commander's intent; Desired modification to target behavior; Commander's course of action analysis; Requirement to revise supplementary planning guidance.

OUTPUTS: Nuclear weapon restrike criteria.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.3 Describe OPSEC Support Guidance.

PROCESS DESCRIPTION: To describe measures to be considered in planning for the operational security of nuclear systems, delivery units, and combat service support units and to describe the requirements for integrating nuclear employment activities into the overall deception concept. (FM 34-1, p. 4-3)

INPUTS: Approved nuclear weapons-supported course of action; Nuclear weapons attack guidance; Tactical SOP on communications; Concept of nuclear employment operations; Tactical SOP on operations security; Record of specified nuclear employment tasks; Record of implied nuclear employment tasks; Higher headquarters intelligence annex; Higher headquarters deception annex; Higher headquarters OPSEC annex; Requirement to redetermine the nuclear employment concept.

OUTPUTS: Nuclear employment OPSEC guidance.

LOCATION: Intelligence, plans, and command cells, main command post.

PROCESSOR: G2, G3, commander.

3.4.3.1 Describe Support For Deception Plans.

PROCESS DESCRIPTION: To describe how the employment or potential use of nuclear weapons will be used to facilitate deception plans. (Derived)

INPUTS: Higher headquarters deception story; Higher headquarters deception objective; Higher headquarters deception implementing schedule; Approved nuclear weapons-supported course of action; Alternative courses of action for which nuclear employment planning is to be performed; Description of the purpose of nuclear weapons in combat operations; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Requirement to revise supplementary planning guidance.

OUTPUTS: Guidance on the role of nuclear weapons employment activities in deception operations.

LOCATION: Plans and command cells, main command post.

PROCESSOR: G3, Commander.

3.4.3.1.1 Provide Deception Objective.

PROCESS DESCRIPTION: To describe the objective of deception plans in which nuclear weapons employment planning is to provide deception support. (Derived)

INPUTS: Higher headquarters deception story; Higher headquarters deception objective; Higher headquarters deception implementing schedule; Approved nuclear weapons-supported course of action; Alternative nuclear weapons-supported courses of action to accomplish primary mission; Contingency roles for nuclear weapons in course of action branches and sequels.

OUTPUTS: Description of the nuclear weapons-supported deception objective.

LOCATION: Plans and command cells, main command post.

PROCESSOR: Commander, G3.

3.4.3.1.2 Outline Role Of Nuclear Weapons.

PROCESS DESCRIPTION: To describe the role which nuclear weapons employment planning will play in deception operations. (Derived)

INPUTS: Higher headquarters deception story; Description of the nuclear weapons-supported deception objective; Higher headquarters deception implementing schedule; Approved nuclear weapons-supported course of action; Alternative nuclear weapons-supported courses of action to accomplish primary mission; Contingency roles for nuclear weapons in course of action branches and sequels; Description of the purpose of nuclear weapons in covering force operations; Description of the purpose of nuclear weapons in deep operations; Description of the purpose of nuclear weapons in close operations; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Requirement to revise supplementary planning guidance.

OUTPUTS: Description of the role of nuclear weapons in deception operations.

LOCATION: Plans and command cells, main command post.

PROCESSOR: Commander, G3.

3.4.3.2 Describe Counterintelligence Guidance.

PROCESS DESCRIPTION: To describe the counter- intelligence measures to be considered in planning for the security of nuclear systems and units. (FM 34-1, pp. 4-3, 4-6)

INPUTS: Higher headquarters counterintelligence instructions; Enemy intelligence collection capabilities; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Tactical SOP on physical security of nuclear weapons; Tactical SOP on emission security; Requirement to revise supplementary planning guidance.

OUTPUTS: Nuclear employment counterintelligence guidance.

LOCATION: Intelligence, plans, and command cells, main command post.

PROCESSOR: G2, G3, commander.

3.4.3.2.1 Describe Special Measures To Protect Resources.

PROCESS DESCRIPTION: To prescribe any measures not specified in standing operating procedures which must be planned for in order to protect nuclear resources from enemy detection, terrorist activities, or direct enemy attack. (Derived)

INPUTS: Higher headquarters signal security measures; Higher headquarters physical security measures; Enemy SIGINT capabilities; Enemy reconnaissance capabilities; Record of specified nuclear target attack tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear logistic tasks; Tactical SOP on physical security of nuclear weapons; Tactical SOP on emission security; Requirement to revise supplementary planning guidance.

OUTPUTS: Description of special measures to protect nuclear resources.

LOCATION: Plans and command cells, main command post.

PROCESSOR: Commander, G3.

3.4.3.2.2 Describe Special Measures To Hide Intentions.

PROCESS DESCRIPTION: To prescribe any measures not specified in standing operating procedures which must be planned for to hide friendly intentions for nuclear weapons employment. (Derived)

INPUTS: Higher headquarters signal security measures; Enemy SIGINT capabilities; Enemy reconnaissance capabilities; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Tactical SCP on emission security; Requirement to revise supplementary planning guidance.

OUTPUTS: Description of special measures to hide nuclear employment intentions.

LOCATION: Plans, intelligence, and command cells, main command post.

PROCESSOR: Commander, G2, G3.

3.4.4 Announce Risk/Vulnerability Criteria.

PROCESS DESCRIPTION: To prescribe criteria for avoiding collateral damage, determining risk to friendly forces, and restricting fallout in the employment of nuclear weapons. (FM 100-30, p. A-17)

INPUTS: Targets designated for nuclear employment planning; Concept of nuclear employment operations; Limitations on the employment of nuclear weapons; Tactical SOP on nuclear weapons employment; Requirement to redetermine the nuclear employment concept.

OUTPUTS: Guidance on risk/vulnerability criteria.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.4.1 Specify Damage And Obstacle Preclusion.

PROCESS DESCRIPTION: To state specific restrictions on the nature, times, and/or locations for collateral damage or obstacle creation. (FM 100-30, p. A-17)

INPUTS: Restrictions on the employment of nuclear weapons; Description of the purpose of nuclear weapons in combat operations; Nuclear target descriptions; Required target damage; Requirement to revise supplementary planning guidance.

OUTPUTS: Guidance on preclusion of collateral damage and obstacles.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.4.1.1 Specify Collateral Damage Restrictions.

PROCESS DESCRIPTION: To identify critical terrain features that under most conditions the commander does not want damaged or any obstacles which should not be created. (FM 6-20-30, p. C-6-4)

INPUTS: Geographical restrictions on the employment of nuclear weapons; Yield restrictions on the employment of nuclear weapons; Fallout restrictions on the employment of nuclear weapons; Description of the purpose of nuclear weapons in covering force operations; Description of the purpose of nuclear weapons in deep operations; Description of the purpose of nuclear weapons in close operations; Nuclear target descriptions; Required target damage; Requirement to revise supplementary planning guidance.

OUTPUTS: Guidance on collateral damage and obstacles.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.4.1.2 Specify Preclusion Requirements.

PROCESS DESCRIPTION: To identify specific population or civilian structure preclusion requirements. (FM 6-20-30, p. C-6-4)

INPUTS: Geographical restrictions on the employment of nuclear weapons; Yield restrictions on the employment of nuclear weapons; Fallout restrictions on the employment of nuclear weapons; Description of the purpose of nuclear weapons in covering force operations; Description of the purpose of nuclear weapons in deep operations; Description of the purpose of nuclear weapons in close operations; Requirement to revise supplementary planning guidance.

OUTPUTS: Guidance on preclusion requirements.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.4.2 Announce Troop Safety.

PROCESS DESCRIPTION: To announce any changes to troop safety requirements from existing standing operating procedures. (FM 100-30, p. A-17)

INPUTS: Restrictions on the employment of nuclear weapons; Description of the purpose of nuclear weapons in combat operations; Nuclear target descriptions; Required target damage; Requirement to revise supplementary planning guidance.

OUTPUTS: Guidance on troop safety requirements.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.4.2.1 Specify Level Of Risk.

PROCESS DESCRIPTION: To specify the level of risk to friendly forces which the commander is willing to accept in the employment of nuclear weapons. (FM 101-31-1, p. 18)

INPUTS: Yield restrictions on the employment of nuclear weapons; Fallout restrictions on the employment of nuclear weapons; Description of the purpose of nuclear weapons in covering force operations; Description of the purpose of nuclear weapons in deep operations; Description of the purpose of nuclear weapons in close operations; Nuclear target descriptions; Required target damage; Requirement to revise supplementary planning guidance.

OUTPUTS: Specification of acceptable risk to friendly forces; Guidance on acceptable operational exposure levels.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.4.2.2 Specify Vulnerability.

PROCESS DESCRIPTION: To specify the expected friendly force vulnerability category to be used in nuclear weapons employment planning. (FM 101-31-1, p. 49)

INPUTS: Description of the purpose of nuclear weapons in covering force operations; Description of the purpose of nuclear weapons in deep operations; Description of the purpose of nuclear weapons in close operations; Nuclear target descriptions; Requirement to revise supplementary planning guidance.

OUTPUTS: Guidance on acceptable friendly force vulnerability postures.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.4.3 Prescribe Fallout Restrictions.

PROCESS DESCRIPTION: To announce changes to standing operating procedures regarding fallout. (FM 101-31-1, p. 6)

INPUTS: Restrictions on the employment of nuclear weapons; Tactical SOP on fallout preclusion; Requirement to revise supplementary planning guidance.

OUTPUTS: Guidance on fallout restrictions.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

3.4.5 Prepare Supplementary Warning Order Input.

PROCESS DESCRIPTION: To develop an outline of the forthcoming operation, provide coordinating information, and indicate special requirements for subordinate organizations. (ST 100-9, p. 6-2)

INPUTS: Record of specified nuclear employment tasks; Record of implied nuclear employment tasks; Targets designated for nuclear employment planning; Sensor doctrine; Nuclear delivery system doctrine; Concept of nuclear employment operations; Available nuclear employment resources; Guidance on risk/vulnerability criteria; Tactical SOP on plan and order development; Staff and subordinate headquarters planning and preparation time.

OUTPUTS: Formatted warning order input.

LOCATION: Intelligence, CSS, plans, and fire support cells, main command post.

PROCESSOR: G2, G3, G4, FSCoord.

3.4.5.1 Outline Nuclear Contingencies.

PROCESS DESCRIPTION: To provide subordinate organizations advance warning of forthcoming nuclear employment operations. (ST 100-9, p. 6-2)

INPUTS: Commander's course of action description; Nuclear target descriptions; Target attack time frames; Description of the purpose of nuclear weapons in combat operations.

OUTPUTS: Description of forthcoming nuclear employment operations.

LOCATION: Plans, intelligence, CSS, and fire support cells, main command post.

PROCESSOR: G2, G3, G4, FSCoord.

3.4.5.1.1. Specify Nature Of Nuclear Operations.

PROCESS DESCRIPTION: To provide subordinate organizations information on the nature and extent of nuclear operations being planned. (Derived)

INPUTS: Commander's course of action description; Nuclear target descriptions; Target attack time frames; Description of the purpose of nuclear weapons in covering force operations; Description of the purpose of nuclear weapons in deep operations; Description of the purpose of nuclear weapons in close operations.

OUTPUTS: Outline of the nature of nuclear operations.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

3.4.5.1.2 Provide Locations Of Interest.

PROCESS DESCRIPTION: To provide subordinate organizations with general information on the location of proposed nuclear operations. (Derived)

INPUTS: Commander's course of action description; Nuclear target descriptions; Description of the purpose of nuclear weapons in covering force operations; Description of the purpose of nuclear weapons in deep operations; Description of the purpose of nuclear weapons in close operations.

OUTPUTS: Outline of the locations of nuclear operations.

LOCATION: Plans, intelligence, CSS, and fire support cells, main command post.

PROCESSOR: G2, G3, G4, FSCoord.

3.4.5.1.3 Provide Critical Times.

PROCESS DESCRIPTION: To provide subordinate organizations information on the timing of proposed nuclear operations. (Derived)

INPUTS: Commander's course of action description; Target attack time frames; Description of the purpose of nuclear weapons in covering force operations; Description of the purpose of nuclear weapons in deep operations; Description of the purpose of nuclear weapons in close operations.

OUTPUTS: Outline of the timing of nuclear operations.

LOCATION: Plans, intelligence, CSS, and fire support cells, main command post.

PROCESSOR: G2, G3, G4, FSCoord.

3.4.5.2 Identify Subordinate Organization Requirements.

PROCESS DESCRIPTION: To provide advance information to selected subordinate organizations on their specific requirements in the conduct of nuclear operations. (ST 100-9, p. 6-2)

INPUTS: Commander's course of action description; Surface-delivered nuclear resources available for planning; Air-delivered nuclear resources available for planning; Guidance on troop safety requirements; Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Planning time schedule; Nuclear

delivery system response times; Sensor tasking response times; Subordinate unit movement times; Subordinate unit preparation time; Subordinate unit planning time.

OUTPUTS: Subordinate organization preparation requirements.

LOCATION: Plans, intelligence, CSS, and fire support cells, main command post.

PROCESSOR: G2, G3, G4, FSCoord.

3.4.5.2.1 Identify Movement Requirements.

PROCESS DESCRIPTION: To provide subordinate organization advance warning on their respective requirements for movement. (Derived)

INPUTS: Record of specified nuclear target attack tasks; Record of specified nuclear target acquisition tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear target acquisition tasks; Record of implied nuclear logistic tasks; Commander's course of action description; Planning time schedule; Nuclear delivery system response times; Sensor tasking response times; Subordinate unit movement times; Subordinate unit preparation time.

OUTPUTS: Subordinate organization movement requirements.

LOCATION: Plans, intelligence, CSS, and fire support cells, main command post.

PROCESSOR: G2, G3, G4, FSCoord.

3.4.5.2.2 Identify Supply Requirements.

PROCESS DESCRIPTION: To provide subordinate organizations with advance warning on their respective requirements for supply in support of proposed nuclear employment operations. (Derived)

INPUTS: Record of specified nuclear target attack tasks; Record of specified nuclear logistic tasks; Record of implied nuclear target attack tasks; Record of implied nuclear logistic tasks; Commander's course of action description; Surface-delivered nuclear weapons available for planning.

OUTPUTS: Subordinate organization supply requirements.

LOCATION: Plans, CSS, and fire support cells, main command post.

PROCESSOR: G3, G4, FSCoord.

3.4.5.2.3 Identify Survivability Requirements.

PROCESS DESCRIPTION: To develop information for subordinate organizations on their respective survivability requirements for proposed nuclear employment operations. (Derived)

INPUTS: Guidance on acceptable friendly force vulnerability postures; Commander's course of action description; Surface-delivered nuclear weapons available for planning; Air-delivered nuclear resources available for planning.

OUTPUTS: Subordinate organization survivability requirements.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

3.4.5.3 Format Supplementary Warning Order Input.

PROCESS DESCRIPTION: To format and incorporate nuclear employment-related information into the warning order in accordance with standing operating procedures. (Derived)

INPUTS: Description of forthcoming nuclear employment operations; Subordinate organization preparation requirements; Tactical SOP on order/plan formats.

OUTPUTS: Formatted supplementary warning order input.

LOCATION: Intelligence, plans, CSS, and fire support cells, main command post.

PROCESSOR: G2, G3, G4, FSCoord.

SECTION 4

DIRECT NUCLEAR EMPLOYMENT OPERATIONS

4. Direct Nuclear Employment Operations.

PROCESS DESCRIPTION: To provide the coordinated direction for the integration of nuclear weapons employment in tactical operations. (AC2MP, pp. 2-5, 2-6)

INPUTS: External reports; Higher headquarters directives; Assessment of the situation; Concept for the employment of nuclear weapons; Standard procedures; Doctrine.

OUTPUTS: Formatted directives; Formatted requests/reports; Nuclear employment package/subpackage information.

(Queries for updated or missing information may be directed to the "Acquire, Maintain, And Transmit Information" function.)

LOCATION: Command post.

PROCESSOR: Commander and staff.

4.1 Develop/Refine Nuclear Packages/Subpackages.

PROCESS DESCRIPTION: To allocate a distinct grouping of nuclear weapons with a defined purpose in support of a specific tactical contingency. (FM 6-20-30, p. C-6-2)

INPUTS: Nuclear targeting information; Higher headquarters authorizations; External status reports; External situation reports; Commander's decision and concept for the employment of nuclear weapons; Commander's supplementary planning guidance; Analysis of the nuclear employment aspects of the mission; Nuclear weapons employment doctrine; Replanning requirements.

OUTPUTS: Approved nuclear weapons package/subpackage.
(Requests for situation and status update may be directed to the "Monitor Situation" function.)

LOCATION: Main command post.

PROCESSOR: Commander and staff.

4.1.1. Perform Employment Analysis.

PROCESS DESCRIPTION: To determine the specific types, yields, and aimpoints for nuclear weapons by considering damage requirements and constraints/limitations. (FM 101-31-1, p. 13)

INPUTS: Higher headquarters situation messages; Staff and subordinate headquarters planning and preparation time; Available nuclear employment resources; Non-nuclear fire support concept; Integrated corps nuclear weapons package; Nuclear employment authorization; Maneuver unit situation reports; Subordinate unit intelligence reports; Nuclear delivery unit status reports; Nuclear delivery unit situation reports; Concept of nuclear employment operations; Nuclear weapons attack guidance; Targets designated for nuclear employment planning; Prioritized listing of nuclear targets for each course of action; Guidance on risk/vulnerability criteria; Nuclear weapons employment analysis procedures; Requirement to redirect nuclear employment operations.

OUTPUTS: Evaluated nuclear weapons package/subpackage; Adjustments to nuclear weapons package/subpackage. (Requests for current and projected friendly and enemy situation updates and friendly force status updates may be directed to the "Request Information" function.)

LOCATION: Fire support and plans cells, main command post.

PROCESSOR: FSCoord, G3, target analyst.

4.1.1.1 Select Initial Aimpoints.

PROCESS DESCRIPTION: To select target aimpoints based upon target damage criteria and expected target activity. (FM 6-20-30, p. C-6-6)

INPUTS: Prioritized listing of targets for each course of action; Current enemy locations; Projected enemy locations; Order/plan preparation time; Nuclear target descriptions; Required target damage; Aimpoint selection procedures; Air support plan; Field artillery support plan; Requirement to redevelop nuclear package/subpackage.

OUTPUTS: Initial target aimpoints.

(Requests for enemy current and projected locations may be directed to the "Determine Information Needs" function.)

LOCATION: Fire support and plans cells, main command post.

PROCESSOR: FSCoord, Target analyst, G3 plans nuclear employment officer.

4.1.1.1.1 Determine Primary Target Elements.

PROCESS DESCRIPTION: To determine the location, size, shape, and distribution of the primary elements of each target. (FM 101-31-1, p. 17)

INPUTS: Prioritized listing of targets for each course of action; Order/plan preparation time; Nuclear target descriptions; Requirement to redetermine target aimpoints.

OUTPUTS: Primary target elements for nuclear targets.

LOCATION: Fire support and plans cells, main command post.

PROCESSOR: Target analyst, G3 plans nuclear employment officer.

4.1.1.1.2 Determine Primary Target Data.

PROCESS DESCRIPTION: To determine the primary target category (e.g. exposed personnel) and defeat criteria (e.g. immediate transient incapacitation) for primary target elements. (FM 6-20-30, p. C-6-6)

INPUTS: Primary target elements for nuclear targets; Nuclear target descriptions; Required target damage.

OUTPUTS: Defeat criteria for nuclear targets.

LOCATION: Fire support and plans cells, main command post.

PROCESSOR: Target analyst, G3 plans nuclear employment officer.

4.1.1.1.3 Determine Conventional Damage Contribution.

PROCESS DESCRIPTION: To determine the percentage of overall required target damage which will be contributed by conventional weapons. (FM 6-20-30, p. C-6-7)

INPUTS: Prioritized listing of targets for each course of action; Current enemy locations; Projected enemy locations; Nuclear target descriptions; Required target damage; Artillery conventional target list; Air conventional target list.

OUTPUTS: Target damage contribution of conventional weapons.

(Requests for enemy current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

4.1.1.1.4 Plot Initial Aimpoints.

PROCESS DESCRIPTION: To plot target element aimpoints based on target data and conventional weapon contribution. (Derived)

INPUTS: Prioritized listing of targets for each course of action; Primary target elements for nuclear targets; Defeat criteria for nuclear targets; Target damage contribution of convention weapons; Current enemy locations; Projected enemy locations; Aimpoint selection procedures.

OUTPUTS: Initial target aimpoints.

(Requests for enemy current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support and plans cells, main command post.

PROCESSOR: Target analyst, G3 plans nuclear employment officer.

4.1.1.2 Select Weapons And Yields.

PROCESS DESCRIPTION: To select nuclear weapon types, yields, and heights of burst based on the initial coverage or damage probability of those weapons available for planning. (FM 101-31-1, p. 18)

INPUTS: Initial target aimpoints; Required target damage; Yield selection procedures; Height of burst selection procedures; Guidance on fallout restrictions; Surface-delivered nuclear resources available for planning; Air-delivered nuclear resources available for planning.

OUTPUTS: Weapons, yields, and heights of burst for each identified target.

LOCATION: Fire support cell, main command post.

PROCESSOR: Target analyst.

4.1.1.3 Consider Preclusion Information.

PROCESS DESCRIPTION: To adjust weapon aimpoints and/or yields based on requirements to preclude collateral damage and obstacles and to conform to troop safety requirements. (FM 6-20-30, p. C-6-7)

INPUTS: Weapons, yields, and heights of burst for each identified target; Required target damage; Initial target aimpoints; Guidance on preclusion of collateral damage and obstacles; Guidance on troop safety requirements; Maneuver unit locations; Commander's course of action description.

OUTPUTS: Proposed nuclear package/subpackage.

(Requests for friendly unit current and projected locations may be directed to the "Determine Information Needs" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: Target analyst.

4.1.1.3.1 Overlay Preclusion Information.

PROCESS DESCRIPTION: To overlay preclusion data to determine if initial aimpoints or weapon selections violate preclusion restrictions. (FM 3-20-30, p. C-6-7)

INPUTS: Weapons, yields, and heights of burst for each identified target; Initial target aimpoints; Guidance on collateral damage and obstacles; Guidance on preclusion requirements; Specification of acceptable risk to friendly forces; Guidance on acceptable operational exposure levels; Maneuver unit locations; Commander's course of action description.

OUTPUTS: Overlay of preclusion information.
(Requests for friendly current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: Target analyst.

4.1.1.3.2 Adjust Aimpoints.

PROCESS DESCRIPTION: To move initially selected target aimpoints in order to conform to preclusion guidance while maintaining required coverage/damage probability. (FM 6-20-30, p. C-6-7)

INPUTS: Overlay of preclusion information; Weapons, yields, and heights of burst for each identified target; Initial target aimpoints; Required target damage.

OUTPUTS: Adjusted weapon aimpoints.

LOCATION: Fire support cell, main command post.

PROCESSOR: Target analyst.

4.1.1.3.3 Adjust Weapons/Yields.

PROCESS DESCRIPTION: To change the number and/or yields of initially selected nuclear weapons in order to conform to preclusion guidance while maintaining required coverage/damage probability. (FM 6-20-30, p. C-6-7)

INPUTS: Overlay of preclusion information; Weapons, yields, and heights of burst for each identified target; Adjusted weapon aimpoints; Required target damage.

OUTPUTS: Adjusted weapon yields.

LOCATION: Fire support cell, main command post.

PROCESSOR: Target analyst.

4.1.1.3.4 Incorporate Preclusion Information.

PROCESS DESCRIPTION: To modify initial aimpoint and weapons data based upon the requirements of considered preclusion information. (Derived)

INPUTS: Adjusted weapon aimpoints; Adjusted weapon yields.

OUTPUTS: Proposed nuclear package/subpackage.

LOCATION: Fire support cell, main command post.

PROCESSOR: Target analyst.

4.1.1.4 Evaluate Package.

PROCESS DESCRIPTION: To examine a nuclear employment package/subpackage to ensure that it conforms to the intent and guidance of the commander and provides for future nuclear operations. (FM 6-20-30, pp. C-6-7, C-6-8)

INPUTS: Commander's course of action description; Proposed nuclear package/subpackage; Initial target aimpoints; Prioritized listing of targets for each course of action; Alternative courses of action for which nuclear employment planning is to be performed; Commander's statement of intent; Guidance on preclusion of collateral damage and obstacles; Guidance on troop safety requirements; Surface-delivered nuclear resources available for planning; Air-delivered nuclear resources available for planning.

OUTPUTS: Evaluated nuclear weapons package; Evaluated nuclear weapons subpackage.

LOCATION: Plans, intelligence, and fire support cells, main command post.

PROCESSOR: G2, G3, FSCOORD.

4.1.1.4.1 Match Package(s)/Subpackage(s) To COA.

PROCESS DESCRIPTION: To compare developed nuclear weapons package(s)/subpackage(s) to a primary or alternative course of action to ensure that the package(s)/subpackage(s) will fulfill its designated purpose in facilitating mission accomplishment. (FM 6-20-30, p. C-6-7)

INPUTS: Commander's course of action description; Proposed nuclear package/subpackage; Prioritized listing of targets for each course of action; Alternative courses of action for which nuclear employment planning is to be performed; Commander's statement of intent.

OUTPUTS: Comparison of proposed package/ subpackage to courses of action.

LOCATION: Plans, intelligence, and fire support cells, main command post.

PROCESSOR: G3, G2, FSCOORD.

4.1.1.4.2 Estimate Nuclear Damage Contribution.

PROCESS DESCRIPTION: To estimate the damage contribution of package/subpackage weapons to ensure that the nuclear/conventional mix meets overall damage requirements. (FM 6-20-30, p. C-6-7)

INPUTS: Commander's course of action description; Proposed nuclear package/subpackage; Prioritized listing of targets for each course of action; Alternative courses of action for which nuclear employment planning is to be performed; Commander's statement of intent; Target damage contribution of convention weapons.

OUTPUTS: Estimation of nuclear weapons damage contribution.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCOORD.

4.1.1.4.3 Review Number Of Weapons By Type And Yield.

PROCESS DESCRIPTION: To review the number, type, and yield of package/subpackage weapons to ensure that they conform to higher headquarters guidance. (FM 6-20-30, p. C-6-7)

INPUTS: Proposed nuclear package/subpackage; Surface-delivered nuclear systems available for planning; Surface-delivered nuclear weapons available for planning; Air-delivered nuclear resources available for planning.

OUTPUTS: Comparison of proposed package/subpackage to nuclear resources available for planning.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

4.1.1.4.4 Review Preclusion And Troop Safety Compliance.

PROCESS DESCRIPTION: To review nuclear package/subpackage weapons to ensure that they meet the commander's and higher headquarters' requirements for damage preclusion and troop safety. (Derived)

INPUTS: Proposed nuclear package/subpackage; Guidance on collateral damage and obstacles; Guidance on preclusion requirements; Specification of acceptable risk to friendly forces; Surface-delivered nuclear resources available for planning; Air-delivered nuclear resources available for planning; Overlay of preclusion information.

OUTPUTS: Review of proposed package/subpackage for preclusion and troop safety compliance.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

4.1.1.4.5 Consolidate Evaluation Data.

PROCESS DESCRIPTION: To make an overall evaluation of a nuclear weapons package/subpackage based upon the results of a review of specific features of the package/subpackage. (Derived)

INPUTS: Comparison of proposed package/ subpackage to courses of action; Estimation of nuclear weapons damage contribution; Comparison of proposed package/subpackage to nuclear resources available for planning; Review of proposed package/subpackage for preclusion and troop safety compliance.

OUTPUTS: Evaluated nuclear weapons package; Evaluated nuclear weapons subpackage.

LOCATION: Plans, intelligence, and fire support cells, main command post.

PROCESSOR: G3, G2, FSCoord.

4.1.1.5 Review And Refine Existing Package/Subpackage.

PROCESS DESCRIPTION: To continually review, refine, and update approved nuclear weapons packages/subpackages to ensure they facilitate the changing tactical situation and conform to established employment guidance. (FM 6-20-30, p. C-6-3)

INPUTS: Corps commander approved nuclear weapons package; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Delivery unit PNL status; Delivery unit equipment status; Delivery unit locations; Delivery unit activities; Nuclear employment authorization time window; Nuclear yields authorized for employment; Nuclear delivery systems authorized for employment.

OUTPUTS: Adjustments to nuclear weapons package; Adjustments to nuclear weapons subpackage. (Requests for friendly unit and enemy current and projected locations and activities and friendly unit equipment and supply status may be directed to the "Determine Information Needs" function.)

LOCATION: Fire support, intelligence, and plans cells, main command post.

PROCESSOR: FSCoord, Target analyst, G2, G3.

4.1.1.5.1 Modify Package/Subpackage Targets.

PROCESS DESCRIPTION: To add or delete targets and/or change the size, location, or configuration of targets within a package or subpackage based upon the changing battlefield situation. (Derived)

INPUTS: Corps commander approved nuclear weapons package; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities.

OUTPUTS: Adjustments to nuclear package targets; Adjustments to nuclear subpackage targets. (Requests for enemy current and projected locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans, intelligence, and fire support cells, main command post.

PROCESSOR: G3, G2, FSCoord.

4.1.1.5.2 Revise Target Attack Data.

PROCESS DESCRIPTION: To adjust aimpoints and/or reduce weapon yields based upon a changing battlefield situation. (FM 6-20-30, p. C-6-13)

INPUTS: Corps commander approved nuclear weapons package; Current enemy locations; Projected enemy locations; Delivery unit PNL status; Delivery unit equipment status; Delivery unit locations; Nuclear yields authorized for employment; Nuclear delivery systems authorized for employment; Adjustments to nuclear package targets; Adjustments to nuclear subpackage targets.

OUTPUTS: Adjustments to nuclear package aimpoints and/or yields; Adjustments to nuclear subpackage aimpoints and/or yields. (Requests for friendly unit and enemy current and projected locations and friendly unit equipment and supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: Target analyst.

4.1.1.5.3 Confirm Decision Points.

PROCESS DESCRIPTION: To confirm existing package/subpackage employment decision points or revise decision points based upon a changing battlefield situation. (FM 6-20-30, p. C-6-13)

INPUTS: Corps commander approved nuclear weapons package; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Delivery unit locations; Delivery unit activities; Nuclear employment authorization time window.

OUTPUTS: Adjustments to nuclear package decision points; Adjustments to nuclear subpackage decision points. (Requests for friendly unit and enemy current and projected locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans and intelligence cells, main command post.

PROCESSOR: G3, G2.

4.1.2 Approve And Integrate Nuclear Packages/Subpackages.

PROCESS DESCRIPTION: To review and approve nuclear weapons packages/subpackages and to integrate subordinate organization subpackages into the corps overall nuclear employment plan. (FM 6-20-30, pp. C-6-10, C-6-11)

INPUTS: Evaluated nuclear weapons package/subpackage; Concept of nuclear employment operations; Nuclear weapons attack guidance; Guidance on risk/ vulnerability criteria.

OUTPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package.

LOCATION: Command fire support, and plans cells, main command post.

PROCESSOR: G3, F, COORD, Commander.

4.1.2.1 Approve Organizational Nuclear Package/Subpackage.

PROCESS DESCRIPTION: As the organizational approving authority, to consider and approve a nuclear weapons employment package/subpackage developed by the staff. (FM 100-30, p. A-14)

INPUTS: Evaluated nuclear weapons package; Evaluated nuclear weapons subpackage; Commander's course of action description; Commander's statement of intent; Description of the purpose of nuclear weapons in combat operations; Alternative courses of action for which nuclear employment planning is to be performed; Guidance on preclusion of collateral damage and obstacles; Guidance on troop safety requirements.

OUTPUTS: Corps commander approved nuclear weapons package; Division commander approved nuclear weapons subpackage.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

4.1.2.1.1 Review Nuclear Employment Assumptions.

PROCESS DESCRIPTION: To review the nuclear employment assumptions upon which packages/subpackages were developed to ensure the current validity of those assumptions. (FM 6-20-30, p. C-6-10)

INPUTS: Comparison of proposed package/subpackage to courses of action; Estimation of nuclear weapons damage contribution; Comparison of proposed package/subpackage to nuclear resources available for planning; Alternative courses of action for which nuclear employment planning is to be performed; Commander's course of action description.

OUTPUTS: Assessment of the validity of planning assumptions.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

4.1.2.1.2 Review Courses Of Action.

PROCESS DESCRIPTION: To review primary and alternative courses of action to ensure that planned nuclear packages/subpackages conform to the commander's concept and intent. (FM 6-20-30, p. C-6-10)

INPUTS: Comparison of proposed package/subpackage to courses of action; Estimation of nuclear weapons damage contribution; Comparison of proposed package/subpackage to nuclear resources available for planning; Commander's course of action description; Description of the purpose of nuclear weapons in covering force operations; Description of the purpose of nuclear weapons in deep

operations; Description of the purpose of nuclear weapons in close operations; Commander's statement of intent.

OUTPUTS: Review of course of action package/subpackage conformity.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

4.1.2.1.3 Review Package/Subpackage Contents.

PROCESS DESCRIPTION: To review nuclear weapons packages/ subpackages to ensure that the number, type, and yield of weapons and preclusion measures conform to the commander's and higher headquarters guidance. (FM 6-20-30, p. C-6-10)

INPUTS: Estimation of nuclear weapons damage contribution; Comparison of proposed package/subpackage to nuclear resources available for planning; Guidance on collateral damage and obstacles; Guidance on preclusion requirements; Specification of acceptable risk to friendly forces; Guidance on acceptable operational exposure levels.

OUTPUTS: Review of package/subpackage contents.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

4.1.2.1.4 Finalize Approval.

PROCESS DESCRIPTION: To grant overall approval of a nuclear weapons package or subpackage based upon an assessment of the various aspects of the package/subpackage in relation to approved courses of action. (Derived)

INPUTS: Assessment of the validity of planning assumptions; Review of course of action package/subpackage conformity; Review of package/ subpackage contents.

OUTPUTS: Corps commander approved nuclear weapons package; Division commander approved nuclear weapons subpackage.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

4.1.2.2 Integrate Subordinate Unit Subpackages.

PROCESS DESCRIPTION: To approve and integrate subordinate headquarters' nuclear weapons subpackages into the corps nuclear employment package. (FM 100-30, pp. A-18, A-23)

INPUTS: Corps commander approved nuclear weapons package; Division commander approved nuclear weapons subpackage; Commander's course of action description; Commander's statement of intent; Description of the purpose of nuclear weapons in combat operations; Guidance on preclusion of collateral damage and obstacles; Guidance on troop safety requirements.

OUTPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package.

LOCATION: Plans, and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

4.1.2.2.1 Check For Compliance With Guidance.

PROCESS DESCRIPTION: To review nuclear weapons subpackages of subordinate headquarters to ensure that the number, type, and yield of weapons and preclusion measures conform to the corps commander's guidance.

INPUTS: Division commander approved nuclear weapons subpackage; Commander's course of action description; Commander's statement of intent; Description of the purpose of nuclear weapons in covering force operations; Description of the purpose of nuclear weapons in deep operations; Description of the purpose of nuclear weapons in close operations; Guidance on collateral damage and obstacles; Guidance on preclusion requirements; Specification of acceptable risk to friendly forces; Guidance on acceptable operational exposure levels.

OUTPUTS: Corps approved nuclear weapons subpackage.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

4.1.2.2.2 Eliminate Duplications.

PROCESS DESCRIPTION: To purge weapons from subordinate headquarters subpackages or from planned corps fires to eliminate duplications of effects. (FM 100-30, p. 4-9)

INPUTS: Corps commander approved nuclear weapons package; Commander's course of action description; Corps approved nuclear weapons subpackage.

OUTPUTS: Purge of nuclear weapons duplications from package/ subpackage(s).

LOCATION: Plans, and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

4.1.2.2.3 Form Corps Package.

PROCESS DESCRIPTION: To merge subordinate headquarters subpackages with planned corps nuclear fires to form corps nuclear packages which optimize the effects of nuclear strikes. (FM 100-30, p. 4-9)

INPUTS: Corps commander approved nuclear weapons package; Corps approved nuclear weapons subpackage.

OUTPUTS: Integrated corps nuclear weapons package.

LOCATION: Plans, and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

4.2 Coordinate Nuclear Employment .

PROCESS DESCRIPTION: To establish and direct the measures necessary to ensure that delivery and sensor systems are positioned and equipped to execute timely nuclear weapons packages/subpackages (FC 100-15-1, p. B-7); to provide for the storage, distribution, and resupply of weapons; and to effect nuclear weapons employment execution (FM 6-20-30, pp. C-6-13, 14,15).

INPUTS: External status reports; External situation reports; Commander's decision and concept for the employment of nuclear weapons; Analysis of the nuclear employment aspects of the mission; Approved nuclear weapons package/subpackage; Nuclear targeting information; Intelligence doctrine; Fire support

doctrine; Nuclear weapons employment doctrine; Higher headquarters orders/plans; SOPs; Regulations; Replanning requirements.

OUTPUTS: Nuclear employment coordination information; Formatted support requests; Formatted orders/plans.
(Requests for situation and status update may be directed to the "Monitor Situation" function.)

LOCATION: Main CP

PROCESSOR: Commander and staff.

4.2.1 Coordinate Target Development.

PROCESS DESCRIPTION: To designate specific sensor systems/units to develop targets identified in nuclear weapons packages and to identify and prepare requests for external target development support. (FC 100-15-1, p. B-7)

INPUTS: Target acquisition unit situation reports; Target acquisition unit status reports; Targets designated for nuclear employment planning; Prioritized listing of nuclear targets for each course of action; Higher headquarters situation messages; Subordinate unit intelligence reports; Concept of nuclear employment operations; Higher headquarters task organization; Sensor doctrine; Requirement to redirect nuclear employment operations.

OUTPUTS: Target development coordination information; Formatted requests for support.
(Requests for current and projected friendly and enemy situation update may be directed to the "Request Information" function.)

LOCATION: Intelligence and plans cells, main command post.

PROCESSOR: G2, G3.

4.2.1.1 Determine Operational Availability Of Sensors.

PROCESS DESCRIPTION: To assess the availability of the specific organic and supporting sensor systems needed for nuclear weapons employment. (FC 100-15-1, p. B-7)

INPUTS: List of supporting target acquisition units; Target acquisition unit activities; Target acquisition unit equipment status; Target acquisition unit locations; Identified target development means; Requirement to re-coordinate nuclear operations; Sensor acquisition capabilities; Sensor processing time frames; Sensor tasking response times.

OUTPUTS: Sensors available for tasking.
(Requests for friendly unit current and projected locations and activities and friendly unit equipment status may be directed to the "Determine Information Needs" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2

4.2.1.1.1 Determine Sensor System Status.

PROCESS DESCRIPTION: To determine current equipment status and taskings for sensor systems with the capability to develop nuclear package/subpackage targets. (Derived)

INPUTS: List of supporting target acquisition units; Target acquisition unit activities; Target acquisition unit equipment status; Match of available sensors to nuclear targets; Requirement to re-coordinate nuclear operations; Sensor acquisition capabilities; Sensor processing time frames; Sensor tasking response times.

OUTPUTS: Sensor system status.

(Requests for friendly unit current and projected activities and equipment status may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

4.2.1.1.2. Determine Sensor System Locations.

PROCESS DESCRIPTION: To determine current and projected locations of sensor systems with the capability to develop nuclear package/subpackage targets. (Derived)

INPUTS: List of supporting target acquisition units; Target acquisition unit activities; Target acquisition unit locations; Match of available sensors to nuclear targets; Requirement to re-coordinate nuclear operations.

OUTPUTS: Current and projected sensor system locations.

(Requests for friendly unit current and projected locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

4.2.1.1.3 List Available Sensor Systems.

PROCESS DESCRIPTION: To list all organic and supporting sensor systems which are available to develop nuclear targets. (Derived)

INPUTS: Match of available sensors to nuclear targets; Current and projected sensor system locations; Sensor system status.

OUTPUTS: Sensors available for tasking.

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

4.2.1.2 Designate Sensors.

PROCESS DESCRIPTION: To designate specific organic sensors and request higher headquarter sensors to be in specific locations at the required times in order to detect specific, observable events. (FC 100-15-1, p. B-7)

INPUTS: Sensors available for tasking; Prioritized listing of targets for each course of action; Current enemy locations; Projected enemy locations; Nuclear target descriptions; Commander's course of action description.

OUTPUTS: Sensors designated to develop nuclear targets; Identified requirements for additional sensor support; Formatted requests for sensor support.

(Requests for enemy current and projected locations may be directed to the "Determine Information Needs" function.)

LOCATION: Intelligence and plans cells, main command post.

PROCESSOR: G2, G3.

4.2.1.2.1 Match Available Sensors To Targets.

PROCESS DESCRIPTION: To select from among the sensor systems available a system or systems to develop each nuclear target by considering relative sensor capabilities, the nature of the target, the terrain and weather, and enemy capabilities to avoid or counter detection efforts. (FM 34-1, pp. 3-29, 3-31)

INPUTS: Sensors available for tasking; Prioritized listing of targets for each course of action; Current enemy locations; Projected enemy locations; Nuclear target descriptions; Commander's course of action description.

OUTPUTS: Match of available sensors to targets; Identified requirements for additional sensor support. (Requests for enemy current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

4.2.1.2.2. Develop Sensor System Requirements.

PROCESS DESCRIPTION: To develop the specific requirements and taskings for collection units/agencies to include priorities, time requirements, and reporting requirements. (FM 34-1, pp. 3-31, 3-32)

INPUTS: Match of available sensors to targets; Identified requirements for additional sensor support; Prioritized listing of targets for each course of action; Current enemy locations; Projected enemy locations; Nuclear target descriptions.

OUTPUTS: Sensors designated to develop nuclear targets. (Requests for enemy current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence and plans cells, main command post.

PROCESSOR: G2, G3.

4.2.1.2.3 Format Request For Sensor Support.

PROCESS DESCRIPTION: To format a request to higher headquarters for additional sensor support and/or collection requirements when nuclear targets cannot be developed with organic or supporting sensor systems. (FM 6-20-30, p. C-6-12)

INPUTS: Match of available sensors to targets; Sensors designated to develop nuclear targets; Identified requirements for additional sensor support; Current enemy locations; Projected enemy locations; Nuclear target descriptions.

OUTPUTS: Formatted requests for sensor support. (Requests for enemy current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence and plans cells, main command post.

PROCESSOR: G2, G3.

4.2.2 Coordinate Target Attack.

PROCESS DESCRIPTION: To designate specific units to deliver nuclear fires in accordance with planned packages/subpackages and to identify and prepare requests/orders for external nuclear delivery support. (FC 100-15-1, p. B7)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Available nuclear employment resources; Nuclear delivery unit status reports; Nuclear delivery unit situation reports; Higher headquarters situation messages; Subordinate unit intelligence reports; Requirement to redirect nuclear employment operations; Nuclear delivery system doctrine.

OUTPUTS: Target attack coordination information; Formatted requests for support; Formatted warning order.

(Requests for current and projected friendly and enemy situation update and friendly force status update may be directed to the "Request Information" function.)

LOCATION: Fire support and plans cells, main command post.

PROCESSOR: FSCORD, G3.

4.2.2.1 Determine Operational Availability Of Attack Systems.

PROCESS DESCRIPTION: To determine the availability of specific attack systems to deliver nuclear weapons on specific targets and to determine requirements for external attack system support. (FC 100-15-1, p. B-8)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Surface-delivered nuclear resources available for planning; Air-delivered nuclear resources available for planning; Delivery unit PNL status; Delivery unit equipment status; Delivery unit locations; Delivery unit activities; Nuclear delivery system capabilities; Nuclear delivery system response times; Requirement to re-coordinate nuclear operations.

OUTPUTS: Delivery systems available for tasking.

(Requests for friendly unit current locations and activities and friendly unit equipment and supply status may be directed to the "Determine Information Needs" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCCOORD.

4.2.2.1.1 Determine Attack System Status

PROCESS DESCRIPTION: To determine current equipment status, supply status, and taskings for nuclear delivery systems with the capability to attack nuclear package/subpackage targets. (Derived)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Surface nuclear systems available for planning; Air-delivered nuclear resources available for planning; Delivery unit PNL status; Delivery unit equipment status; Delivery unit activities; Nuclear delivery system capabilities; Nuclear delivery system response times; Requirement to re-coordinate nuclear operations.

OUTPUTS: Delivery system status.

(Requests for friendly unit current activities and equipment and supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCCOORD.

4.2.2.1.2 Determine Attack System Locations

PROCESS DESCRIPTION: To determine current and projected locations of nuclear delivery systems with the capability to attack nuclear package/ subpackage targets. (Derived)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Surface nuclear systems available for planning; Air-delivered nuclear resources available for planning; Delivery unit locations; Delivery unit activities; Requirement to re-coordinate nuclear operations.

OUTPUTS: Current and projected delivery system locations.
(Requests for friendly unit current locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

4.2.2.1.3 List Available Attack Systems

PROCESS DESCRIPTION: To list all organic and supporting nuclear delivery systems which are available to attack nuclear targets. (Derived)

INPUTS: Delivery system status; Current and projected delivery system locations; Surface nuclear systems available for planning; Air-delivered nuclear resources available for planning.

OUTPUTS: Delivery systems available for tasking.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

4.2.2.2 Designate Attack Systems

PROCESS DESCRIPTION: To designate which organic and supporting attack systems will engage specific targets and to request attack system support from higher headquarters. (FC 100-15-1, p. B-8)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Current enemy locations; Projected enemy locations; Delivery systems available for tasking.

OUTPUTS: Delivery systems designated to attack nuclear targets; Identified requirements for additional delivery support; Formatted requests for delivery support; Formatted target attack warning order.
(Requests for enemy current and projected locations may be directed to the "Determine Information Needs" function.)

LOCATION: Fire support and plans cells, main command post.

PROCESSOR: FSCoord, G3.

4.2.2.2.1 Match Available Attack Systems To Targets

PROCESS DESCRIPTION: To select from among the nuclear systems available a system or systems to attack each nuclear target by considering relative attack capabilities, the nature of the target, and system response time. (Derived)

INPUTS: Delivery systems available for tasking; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Current enemy locations; Projected enemy locations.

OUTPUTS: Match of available delivery systems to targets; Identified requirements for additional delivery support.

(Requests for enemy current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

4.2.2.2.2 Develop Attack System Requirements

PROCESS DESCRIPTION: To develop the specific nuclear attack requirements and develop a warning order to the selected nuclear delivery units informing them of target attack requirements (targets, type and yield of weapons, aimpoints) and predicted time frames. (FC 100-15-1, p. B-8)

INPUTS: Match of available delivery systems to targets; Identified requirements for additional delivery support; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Current enemy locations; Projected enemy locations.

OUTPUTS: Delivery systems designated to attack nuclear targets; Formatted target attack warning order. (Requests for enemy current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support and plans cells, main command post.

PROCESSOR: FSCoord, G3.

4.2.2.2.3 Format Request For Attack System Support

PROCESS DESCRIPTION: To format a request to higher headquarters for additional nuclear weapon delivery support and/or weapons allocation when nuclear targets cannot be attacked with organic or supporting delivery systems and weapons (Derived).

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Identified requirements for additional delivery support; Current enemy locations; Projected enemy locations.

OUTPUTS: Formatted requests for delivery support. (Requests for enemy current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support and plans cells, main command post.

PROCESSOR: FSCoord, G3.

4.2.3 Provide For Nuclear Weapons Logistics.

PROCESS DESCRIPTION: To plan for the proper positioning of nuclear weapons on the battlefield and for nuclear weapons resupply. (FM 6-20-30, p. C-6-14, 15, 16)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Nuclear delivery unit status reports; Nuclear delivery unit situation reports; Combat service support unit status reports; Combat service support unit situation reports; Maneuver unit situation reports; Available nuclear employment resources; Higher headquarters fire support annex; Higher headquarters administration/logistics directives; Higher headquarters task organization; Nuclear weapons logistics doctrine; Nuclear security regulations; Staff and subordinate headquarters planning and preparation time; Concept of nuclear employment operations; Tactical SOP on plan and order development.

OUTPUTS: Nuclear weapons logistic support plan.

(Requests for current and projected friendly situation and status updates may be directed to the "Request Information" function.)

LOCATION: CSS, Plans, and fire support cells, main command post.

PROCESSOR: G4, G3, FSCoord, NWLE officer (corps).

4.2.3.1 Establish Distribution Controls For Organic Systems.

PROCESS DESCRIPTION: To determine the number and type nuclear weapons to be carried by subordinate delivery units and combat support units; to determine the storage quantities and locations of nuclear weapons within the organization; and to provide for nuclear weapons disposal. (FM 6-20-30, pp. C-6-14, C-6-15)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; List of supporting combat service support units; Delivery unit locations; Delivery unit equipment status; Maneuver unit locations; Higher headquarters PNL allocations; Surface-delivered nuclear resources available for planning; Ordnance unit storage capabilities; Ordnance unit locations; Ordnance unit weapon status; Nuclear weapons storage procedures; Nuclear weapons physical protection requirements; Regulations on nuclear weapons destruction; Commander's course of action description.

OUTPUTS: Recommended NASP locations; Recommended delivery unit PNL; Recommended ordnance unit PNS; Procedures for nuclear weapons destruction.
(Requests for friendly unit current locations, activities, and equipment status may be directed to the "Determine Information Needs" function.)

LOCATION: CSS, Plans and fire support cells, main command post.

PROCESSOR: G4, G3, FSCoord and NWLE officer (corps).

4.2.3.1.1 Establish Prescribed Nuclear Loads.

PROCESS DESCRIPTION: To establish or revise organic delivery system prescribed nuclear loads based upon a current or future nuclear weapons package/subpackage. (FM 6-20-30, p. C-6-14)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Delivery unit locations; Delivery unit equipment status; Higher headquarters PNL allocations; Surface-delivered nuclear weapons available for planning; Ordnance unit storage capabilities; Commander's course of action description.

OUTPUTS: Recommended delivery unit PNL.
(Requests for friendly unit current locations and equipment and supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, FSCoord.

4.2.3.1.2 Establish Prescribed Nuclear Stockage.

PROCESS DESCRIPTION: To establish or revise the specific quantity of various nuclear items to be stocked in nuclear ammunition service support units or installations based upon approved nuclear weapon packages. (FM 9-84, pp. 24, 25)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Recommended delivery unit PNL; List of supporting combat service support units; Higher headquarters PNL allocations; Surface-delivered nuclear weapons available for planning; Ordnance unit storage capabilities; Ordnance unit locations; Ordnance unit weapon status.

OUTPUTS: Recommended ordnance unit PNS.

(Requests for friendly unit current locations and supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, NWLE officer (corps).

4.2.3.1.3 Determine Storage Locations.

PROCESS DESCRIPTION: To determine the locations, movements, and opening and closing times of nuclear ammunition supply points and weapons holding areas in the corps area of operations. (FM 9-6, p. 69)

INPUTS: List of supporting combat service support units; Delivery unit locations; Maneuver unit locations; Ordnance unit storage capabilities; Ordnance unit locations; Recommended delivery unit PNL; Recommended ordnance unit PNS; Nuclear weapons storage procedures; Nuclear weapons physical protection requirements; Commander's course of action description.

OUTPUTS: Recommended NASP locations.

(Requests for friendly unit current locations may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS, plans, and fire support cells, main command post.

PROCESSOR: G3, G4, NWLE officer (corps).

4.2.3.1.4 Provide For Disablement/Emergency Destruction.

PROCESS DESCRIPTION: To establish or supplement procedures for the command disablement or emergency destruction of nuclear weapons. (FM 100-50, p. 3-8, 3-9)

INPUTS: Nuclear weapons command disablement regulations; Nuclear weapons emergency destruction regulations; Delivery unit locations; Surface-delivered nuclear weapons available for planning; Ordnance unit storage capabilities; Ordnance unit locations; Recommended delivery unit PNL; Recommended ordnance unit PNS; Recommended NASP locations; Nuclear weapons storage procedures; Nuclear weapons physical protection requirements; Commander's course of action description.

OUTPUTS: Procedures for nuclear weapons destruction.

(Requests for friendly unit current locations may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS and plans cells, main command post.

PROCESSOR: G4, G3.

4.2.3.2 Provide For Supply/Resupply.

PROCESS DESCRIPTION: To plan and coordinate for the delivery of nuclear weapons into the organization and for the supply and resupply of nuclear weapons to delivery units. (FM 6-20-30, p. C-6-14, 15, 16)

INPUTS: List of supporting combat service support units; Delivery unit locations; Delivery unit PNL status; Air resupply procedures; Nuclear weapons transportation procedures; Nuclear weapons accountability procedures; Recommended NASP locations; Recommended delivery unit PNL; Recommended ordnance unit PNS; Nuclear weapons physical protection requirements.

OUTPUTS: Recommended nuclear weapons resupply plan. (Requests for friendly unit current locations and equipment and supply status may be directed to the "Determine Information Needs" function.)

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, NWLE officer (corps).

4.2.3.2.1 Establish Procedures For Redistribution.

PROCESS DESCRIPTION: To establish the accountability and transportation procedures for the redistribution of nuclear weapons among organic delivery units or supply points or between delivery units and supply points based on a changing battlefield situation. (FM 6-20-30, p. C-6-16)

INPUTS: List of supporting combat service support units; Delivery unit locations; Delivery unit PNL status; Air resupply procedures; Nuclear weapons transportation procedures; Nuclear weapons accountability procedures; Recommended NASP locations; Recommended delivery unit PNL; Nuclear weapons physical protection requirements.

OUTPUTS: Nuclear weapon redistribution procedures.
(Requests for friendly unit current locations and supply status may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, NWLE officer (corps).

4.2.3.2.2 Coordinate For Replenishment Of Stocks.

PROCESS DESCRIPTION: To request and coordinate the replenishment of nuclear weapons stocks from higher headquarters nuclear ammunition assets. (FM 9-6, p. 69)

INPUTS: Air resupply procedures; Nuclear weapons transportation procedures; Nuclear weapons accountability procedures; Recommended NASP locations; Recommended delivery unit PNL; Recommended ordnance unit PNS; Nuclear weapons physical protection requirements.

OUTPUTS: Nuclear weapon stock replenishment procedures.
(Requests for friendly unit current locations may be directed to the "Examine Requests for Information" function.)

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, NWLE officer (corps).

4.2.4 Initiate Employment Authority Procedures.

PROCESS DESCRIPTION: To request or approve the employment of nuclear weapons based on the development or forecast of a situation requiring the employment of such weapons. (FC 100-15-1, pp. E-3, E-4)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Nuclear delivery unit status reports; Nuclear delivery unit situation reports; Maneuver unit situation reports; Higher headquarters situation messages; Subordinate unit intelligence reports; Nuclear employment request; Nuclear weapons employment analysis procedures; Intelligence estimate; Evaluated nuclear weapons package/subpackage; Nuclear employment authorization; Tactical SOP on nuclear weapons employment; Tactical SOP on communications; Guidance for the initiation/request of nuclear weapons release; Adjustments to nuclear weapons package/subpackage.

OUTPUTS: Formatted nuclear employment authorization; Formatted nuclear employment request; Schedule of nuclear fires; Formatted fire orders; Formatted requests for support.
(Requests for current and projected friendly and enemy situation updates and friendly force status update may be directed to the "Request Information" function.)

LOCATION: Plans, fire support, and command cells, main command post.

PROCESSOR: G3, FSCoord, commander.

4.2.4.1 Request Nuclear Employment Authority.

PROCESS DESCRIPTION: To request approval to expend all or a portion of a nuclear weapons package/subpackage by selecting the package/ subpackage which is most appropriate to the actual tactical situation. (FC 100-15-1, p. E-4)

INPUTS: Delivery unit PNL status; Delivery unit locations; Delivery unit activities; Maneuver unit locations; Maneuver unit activities; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Subordinate headquarters nuclear employment request; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Tactical SOP on nuclear employment request/ authorization procedures; Tactical SOP on nuclear message formats; Description of tactical circumstances for nuclear employment request/authorization; Description of nuclear employment request/ authorization decision points.

OUTPUTS: Formatted nuclear employment request.
(Requests for enemy and friendly unit current and projected locations and activities may be directed to the "Determine Information Needs" function.)

LOCATION: Plans, fire support, and command cells, main command post.

PROCESSOR: G3, FSCoord, commander.

4.2.4.2 Authorize Nuclear Employment.

PROCESS DESCRIPTION: To grant the authority to expend all or a portion of the nuclear weapons in a subpackage. (FC 100-15-1, p. E-4)

INPUTS: Current enemy locations; Current enemy activities; Maneuver unit locations; Maneuver unit activities; Projected enemy locations; Projected enemy activities; Subordinate headquarters nuclear employment request; Nuclear employment authorization time window; Nuclear yields authorized for employment; Nuclear delivery systems authorized for employment; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Adjustments to nuclear weapons package; Adjustments to nuclear weapons subpackage; Tactical SOP on nuclear employment request/ authorization procedures; Tactical SOP on nuclear message formats; Description of tactical circumstances for nuclear employment request/ authorization; Description of nuclear employment request/authorization decision points.

OUTPUTS: Formatted nuclear employment authorization; Nuclear employment authorization time window; Nuclear yields authorized for employment; Nuclear delivery systems authorized for employment.
(Requests for enemy and friendly unit current and projected locations and activities may be directed to the "Determine Information Needs" function.)

LOCATION: Plans, fire support, and command cells, main command post.

PROCESSOR: G3, FSCoord, commander.

4.2.4.2.1 Specify Weapon Types And Yields.

PROCESS DESCRIPTION: To specify the number and type of nuclear weapons within an approved subpackage which a subordinate headquarters is authorized to employ. (FC 100-15-1, p. E-4)

INPUTS: Maneuver unit locations; Maneuver unit activities; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Subordinate headquarters nuclear employment request; Nuclear yields authorized for employment; Nuclear delivery systems authorized for employment; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Adjustments to nuclear package targets; Adjustments to nuclear subpackage targets; Adjustments to nuclear package aimpoints and/or yields; Adjustments to nuclear subpackage aimpoints and/or yields; Adjustments to nuclear package decision points; Adjustments to nuclear subpackage decision points; Description of tactical circumstances for nuclear employment request/authorization; Description of nuclear employment request/ authorization decision points.

OUTPUTS: Nuclear yields authorized for employment; Nuclear delivery systems authorized for employment.

(Requests for enemy and friendly unit current and projected locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans, fire support, and command cells, main command post.

PROCESSOR: G3, FSCoord, commander.

4.2.4.2.2 Specify Time Window.

PROCESS DESCRIPTION: To specify the time window within which an approved nuclear weapons subpackage is authorized to be employed by a subordinate headquarters. (FC 100-15-1, p. E-4)

INPUTS: Maneuver unit locations; Maneuver unit activities; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Subordinate headquarters nuclear employment request; Nuclear employment authorization time window; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Adjustments to nuclear package targets; Adjustments to nuclear subpackage targets; Adjustments to nuclear package aimpoints and/or yields; Adjustments to nuclear subpackage aimpoints and/or yields; Adjustments to nuclear package decision points; Adjustments to nuclear subpackage decision points; Description of tactical circumstances for nuclear employment request/authorization; Description of nuclear employment request/authorization decision points.

OUTPUTS: Nuclear employment authorization time window.

(Requests for enemy and friendly unit current and projected locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Plans, fire support, and command cells, main command post.

PROCESSOR: G3, FSCoord, commander.

4.2.4.2.3 Format Authorization Message.

PROCESS DESCRIPTION: To format and incorporate nuclear weapons subpackage employment information into an authorization message in accordance with standing operating procedures. (Derived)

INPUTS: Tactical SOP on nuclear employment request/authorization procedures; Tactical SOP on nuclear message formats; Nuclear yields authorized for employment; Nuclear delivery systems authorized for employment; Nuclear employment authorization time window.

OUTPUTS: Formatted nuclear employment authorization.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

4.2.4.3 Schedule Delivery.

PROCESS DESCRIPTION: To develop a feasible schedule for synchronized delivery of the yields and quantities of weapons within a package or subpackage by artillery units and planned air strikes. (FM 6-20-30, p. C-6-7)

INPUTS: Nuclear employment authorization time window; Nuclear yields authorized for employment; Nuclear delivery systems authorized for employment; Delivery unit locations; Delivery unit activities; Current enemy locations; Projected enemy locations; Aimpoint selection procedures; Terrain and weather analysis.

OUTPUTS: Unit(s) to fire; Weapons to be employed; Times on target; Adjusted target aimpoints. (Requests for friendly unit current locations, enemy current and projected locations, and terrain and weather data may be directed to the "Determine Information Needs" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord, Nuclear Target Analyst.

4.2.4.3.1 Select Units To Fire.

PROCESS DESCRIPTION: To select or modify a previous selection of organic and supporting surface delivery units to deliver the weapons of a nuclear package/subpackage which have been authorized for expenditure. (FM 6-20-30, p. C-6-13)

INPUTS: Nuclear employment authorization time window; Nuclear yields authorized for employment; Nuclear delivery systems authorized for employment; Delivery unit locations; Delivery unit activities; Current enemy locations; Projected enemy locations.

OUTPUTS: Weapons to be employed; Surface delivery units to fire; Air delivery resources required. (Requests for friendly unit current locations and enemy current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord, Nuclear Target Analyst.

4.2.4.3.2 Compute Adjusted Aimpoints.

PROCESS DESCRIPTION: To determine the minimum distance between nuclear detonations at which preinitiation is precluded and adjust weapon aimpoints as necessary. (Derived)

INPUTS: Weapons to be employed; Surface delivery units to fire; Air delivery resources required; Delivery unit locations; Current enemy locations; Projected enemy locations; Preinitiation avoidance procedures.

OUTPUTS: Adjusted target aimpoints. (Requests for friendly unit current locations and enemy current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: Nuclear Target Analyst.

4.2.4.3.3 Compute Cloud Drift.

PROCESS DESCRIPTION: To determine the drift direction and speed of nuclear clouds resulting from nuclear detonations in order to avoid firing subsequent nuclear weapons through those clouds. (Derived)

INPUTS: Weapons to be employed; Adjusted target aimpoints; Wind conditions; Preinitiation avoidance procedures.

OUTPUTS: Effects of wind on target attack sequence.
(Requests for terrain and weather data may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: Nuclear Target Analyst.

4.2.4.3.4 Construct Waiting Time Matrix.

PROCESS DESCRIPTION: To determine the specific times at which nuclear weapons will be fired by separating nuclear detonations in time and providing for the drift of nuclear clouds. (Derived)

INPUTS: Nuclear employment authorization time window; Weapons to be employed; Surface delivery units to fire; Air delivery resources required; Adjusted target aimpoints; Effects of wind on target attack sequence; Current enemy locations; Projected enemy locations.

OUTPUTS: Times on target; Waiting time matrix.
(Requests for enemy current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Fire support cell, main command post.

PROCESSOR: Nuclear Target Analyst.

4.2.4.4 Prepare Fire Orders/Requests.

PROCESS DESCRIPTION: To prepare orders to surface nuclear delivery units to deliver nuclear weapons and/or to format a request for air delivery of nuclear weapons within a package or subpackage based on the planned schedule of fires. (Derived)

INPUTS: Tactical SOP on nuclear message formats; Weapons, yields, and heights of burst for each identified target; Surface delivery units to fire; Air delivery resources required; Weapons to be employed; Times on target; Adjusted target aimpoints; Waiting time matrix.

OUTPUTS: Formatted fire orders; Formatted requests for air support.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

4.3 Publish Order/Plan.

PROCESS DESCRIPTION: To produce appropriate portions of a directive which plans or orders the employment of nuclear weapons in the accomplishment of an assigned or derived mission. (ST 100-9, p. 6-2)

INPUTS: Approved nuclear weapons package/subpackage; Nuclear employment coordination information; Higher headquarters orders/plans; Commander's decision and concept for the employment of nuclear weapons; Commander's supplementary planning guidance; Analysis of the nuclear employment aspects of the mission; Nuclear targeting information; Commander/staff officer estimates; SOPs; Nuclear weapons employment doctrine; Regulations.

OUTPUTS: Formatted orders/plans.

LOCATION: Main command post.

PROCESSOR: Commander and staff.

4.3.1 Prepare Order/Plan Inputs.

PROCESS DESCRIPTION: To prepare appropriate portions of written or oral directives which convey information governing action in the employment of nuclear weapons. (ST 100-9, p. 6-2)

INPUTS: Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Target development coordination information; Targets designated for nuclear employment planning; Intelligence estimate; Facts and assumptions regarding the employment of nuclear weapons; Alternative nuclear weapons-supported courses of action; Higher headquarters task organization; Nuclear weapons attack guidance; Nuclear employment OPSEC guidance; Nuclear weapons security doctrine; Nuclear security regulations; Staff and subordinate headquarters planning and preparation time; Nuclear weapons logistic support plan; Concept of nuclear employment operations; Guidance for the initiation/request of authority to employ nuclear weapons; Guidance on risk/vulnerability criteria; Tactical SOP on plan and order development; Modifications to nuclear employment inputs to operation order/plan.

OUTPUTS: Nuclear employment inputs to operation order/ plan.

LOCATION: All cells, main command post.

PROCESSOR: G1, G2, G3, G4, G5, FSCoord.

4.3.1.1 Prepare Input To Body Of Directive.

PROCESS DESCRIPTION: To prepare the nuclear employment information to be entered in the main body of the force OPORD/OPLAN. (FM 101-5, pp. G-14, 15, 16)

INPUTS: Commander's course of action description; Commander's statement of intent; Description of tactical circumstances for nuclear employment request/authorization; Description of nuclear employment request/ authorization decision points; Assumptions pertaining to the employment of nuclear weapons; Tactical SOP on order/plan formats; Order/ plan preparation time; Modifications to fire support-related nuclear employment inputs.

OUTPUTS: Nuclear employment input to execution paragraph of the order/plan.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

4.3.1.1.1 Record Nuclear Employment Assumptions.

PROCESS DESCRIPTION: To record assumptions made in planning for the employment of nuclear weapons for subsequent inclusion in paragraph 1 of the operation order or plan. (Derived)

INPUTS: Assumptions pertaining to the employment of nuclear weapons; Tactical SOP on order/plan formats; Order/ plan preparation time.

OUTPUTS: Record of nuclear employment assumptions.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

4.3.1.1.2 Prepare Concept Of Nuclear Support.

PROCESS DESCRIPTION: To record the commander's concept of nuclear fire support for subsequent inclusion in paragraph 3 of the operation order or plan. (derived)

INPUTS: Commander's course of action description; Commander's statement of intent; Description of tactical circumstances for nuclear employment request/authorization; Description of nuclear employment request/authorization decision points; Tactical SOP on order/plan formats; Order/plan preparation time; Modifications to fire support-related nuclear employment inputs.

OUTPUTS: Concept of nuclear support.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

4.3.1.1.3 List Planning Priority For Nuclear Fires.

PROCESS DESCRIPTION: To record the planning priority for nuclear fires for subsequent inclusion in paragraph 3 of the operation order or plan. (derived)

INPUTS: Commander's course of action description; Tactical SOP on order/plan formats; Order/plan preparation time; Modifications to fire support-related nuclear employment inputs.

OUTPUTS: Planning priority for nuclear fires.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

4.3.1.2 Prepare Fire Support Annex Input.

PROCESS DESCRIPTION: To prepare the nuclear support appendix and other nuclear employment-related portions of the fire support annex to the OPORD/ OPLAN. (FM 6-20-30, pp. G-13 to G-25)

INPUTS: Tactical SOP on order/plan formats; Order/plan preparation time; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Commander's course of action description; Nuclear weapon restrike criteria; Guidance on the preclusion of collateral damage and obstacles; Guidance on troop safety requirements; Guidance on fallout restrictions; Recommended NASP locations; Recommended delivery unit PNL; Procedures for nuclear weapons destruction; Modifications to fire support-related nuclear employment inputs.

OUTPUTS: Nuclear employment input to the fire support annex; Nuclear support plan.

LOCATION: Fire support, plans, and CSS cells, main command post.

PROCESSOR: FSCoord, G3, G5.

4.3.1.2.1 Provide Concept Of Nuclear Operations.

PROCESS DESCRIPTION: To develop a statement of the concept of nuclear operations for subsequent inclusion in the fire support annex of the operation order or plan. (Derived)

INPUTS: Tactical SOP on order/plan formats; Order/plan preparation time; Commander's course of action description; Nuclear weapon restrike criteria; Modifications to fire support-related nuclear employment inputs.

OUTPUTS: Concept of nuclear operations.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

4.3.1.2.2 List Priority Of Nuclear Fires.

PROCESS DESCRIPTION: To record the priority of nuclear fires for subsequent inclusion in the fire support annex of the operation order or plan. (Derived)

INPUTS: Tactical SOP on order/plan formats; Order/plan preparation time; Commander's course of action description; Modifications to fire support-related nuclear employment inputs.

OUTPUTS: Priority of nuclear fires.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

4.3.1.2.3 List Prescribed Nuclear Loads.

PROCESS DESCRIPTION: To record the prescribed nuclear loads of organic delivery units for subsequent inclusion in the fire support annex of the operation order or plan. (Derived)

INPUTS: Tactical SOP on order/plan formats; Order/plan preparation time; Recommended delivery unit PNL.

OUTPUTS: Unit prescribed nuclear loads.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

4.3.1.2.4 Provide NASP Locations.

PROCESS DESCRIPTION: To record the locations of nuclear ammunition supply points for subsequent inclusion in the fire support annex of the operation order or plan. (Derived)

INPUTS: Tactical SOP on order/plan formats; Order/plan preparation time; Recommended NASP locations.

OUTPUTS: Nuclear ammunition supply point locations.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

4.3.1.2.5 Provide Preclusion/Troop Safety Data.

PROCESS DESCRIPTION: To record damage and obstacle preclusion and troop safety requirements for subsequent inclusion in the fire support annex of the operation order or plan. (Derived)

INPUTS: Tactical SOP on order/plan formats; Order/plan preparation time; Guidance on collateral damage and obstacles; Guidance on preclusion requirements; Specification of acceptable risk to friendly forces; Guidance on acceptable operational exposure levels; Guidance on acceptable friendly force vulnerability postures; Guidance on fallout restrictions; Modifications to fire support-related nuclear employment inputs.

OUTPUTS: Preclusion and troop safety data.

LOCATION: Fire support and CSS cells, main command post.

PROCESSOR: FSCoord, G5.

4.3.1.2.6 Describe Packages/Subpackages.

PROCESS DESCRIPTION: To describe the contents of nuclear weapons packages/subpackages to include the number of weapons allocated to each headquarters by type delivery systems and yield for subsequent inclusion in the fire support annex of the operation order or plan. (Derived)

INPUTS: Tactical SOP on order/plan formats; Order/plan preparation time; Corps approved nuclear weapons subpackage; Integrated corps nuclear weapons package; Modifications to fire support-related nuclear employment inputs.

OUTPUTS: Nuclear package/subpackage descriptions.

LOCATION: Fire support cell, main command post.

PROCESSOR: FSCoord.

4.3.1.2.7 Provide Emergency Destruction Information.

PROCESS DESCRIPTION: To describe changes to standing operating procedures regarding the circumstances and procedures for the emergency destruction of nuclear weapons. (Derived)

INPUTS: Procedures for nuclear weapons destruction; Modifications to fire support-related nuclear employment inputs.

OUTPUTS: Nuclear weapons destruction procedures description.

LOCATION: Plans and fire support cells, main command post.

PROCESSOR: G3, FSCoord.

4.3.1.3 Prepare Input To Intelligence Documents.

PROCESS DESCRIPTION: To prepare nuclear employment-related portions of the intelligence annex to the OPORD/OPLAN. (FM 101-5, pp. G-93 to G-103)

INPUTS: Analysis of relative nuclear combat power; Potential enemy nuclear courses of action; Nuclear target descriptions; Sensors designated to develop nuclear targets; List of supporting target acquisition units; Tactical SOP on order/plan formats; Order/plan preparation time; Modifications to intelligence-related nuclear employment inputs.

OUTPUTS: Nuclear employment input to the intelligence annex.

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

4.3.1.3.1 Prepare Enemy Nuclear Intelligence Requirements.

PROCESS DESCRIPTION: To prepare intelligence requirements on enemy nuclear capabilities, activities, and intentions for subsequent inclusion in the intelligence annex of the operation order or plan. (Derived)

INPUTS: Analysis of enemy nuclear capabilities; Potential enemy nuclear courses of action; Nuclear target descriptions; Tactical SOP on order/plan formats; Order/plan preparation time; Modifications to intelligence-related nuclear employment inputs.

OUTPUTS: Nuclear weapons intelligence requirements.

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

4.3.2 Prepare Sensor Collection Tasks.

PROCESS DESCRIPTION: To record the sensor collection tasks on nuclear weapons targets for subsequent inclusion in the intelligence annex of the operation order or plan. (Derived)

INPUTS: Match of available sensors to targets; Nuclear target descriptions; Higher headquarters sensor support; Tactical SOP on order/plan formats; Order/plan preparation time; Modifications to intelligence-related nuclear employment inputs.

OUTPUTS: Nuclear weapons sensor collection tasks.

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

4.3.1.3.3 Prepare Initial Target List.

PROCESS DESCRIPTION: To record the initial nuclear target list for subsequent inclusion in the intelligence annex of the operation order or plan. (Derived)

INPUTS: Nuclear target descriptions; Tactical SOP on order/plan formats; Order/plan preparation time; Modifications to intelligence-related nuclear employment inputs.

OUTPUTS: Initial nuclear weapons target list.

LOCATION: Intelligence cell, main command post.

PROCESSOR: G2.

4.3.1.4 Prepare Input To Logistics Directives.

PROCESS DESCRIPTION: To prepare nuclear employment-related portions of the service support annex to the OPOD/OPLAN and the administrative/ logistics order. (FM 101-5, pp. G-21 to G-24 and G-53)

INPUTS: Tactical SOP on order/plan formats; Order/plan preparation time; Recommended NASP locations; Recommended delivery unit PNL; Recommended ordnance unit PNS; Recommended nuclear weapons resupply plan; Modifications to logistics-related nuclear employment inputs

OUTPUTS: Nuclear employment input to logistics directives.

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, NWLE officer (corps).

4.3.1.4.1 Provide PNL And Redistribution Procedures.

PROCESS DESCRIPTION: To record organic and supporting surface delivery unit prescribed nuclear loads and prescribed nuclear load redistribution procedures for subsequent inclusion in the service support annex of the operation order or plan and/or the administration/logistics order or plan. (Derived)

INPUTS: Tactical SOP on order/plan formats; Order/plan preparation time; Recommended delivery unit PNL; Nuclear weapons redistribution procedures; Nuclear weapons stock replenishment procedures; Modifications to logistics-related nuclear employment inputs.

OUTPUTS: Unit PNL and redistribution procedures.

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, NWLE officer (corps).

4.3.1.4.2 Provide NASP/WHA Locations.

PROCESS DESCRIPTION: To record nuclear ammunition supply point and weapons holding area locations for subsequent inclusion in the service support annex of the operation order or plan or the administration/logistics order or plan. (Derived)

INPUTS: Tactical SOP on order/plan formats; Order/plan preparation time; Recommended NASP locations; Modifications to logistics-related nuclear employment inputs.

OUTPUTS: Nuclear ammunition supply point/weapons holding area locations.

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, NWLE officer (corps).

4.3.1.4.3 Provide Prescribed Nuclear Stockage.

PROCESS DESCRIPTION: To record the prescribed nuclear stockage (PNS) of supporting ammunition units for subsequent inclusion in the service support annex of the operation order or plan or the administration/logistics order or plan. (Derived)

INPUTS: Tactical SOP on order/plan formats; Order/plan preparation time; Recommended ordnance unit PNS; Nuclear weapons stock replenishment procedures; Modifications to logistics-related nuclear employment inputs.

OUTPUTS: Prescribed nuclear stockage.

LOCATION: CSS and fire support cells, main command post.

PROCESSOR: G4, NWLE officer (corps).

4.3.1.5 Prepare Deception Annex Input.

PROCESS DESCRIPTION: To prepare nuclear weapons employment-related portions of the deception annex to the OPORD/OPLAN. (FM 101-5, pp. G-131 to G-136)

INPUTS: Alternative courses of action for which nuclear employment planning is to be performed; Guidance on the role of nuclear weapons employment activities in deception operations; Tactical SOP on order/plan formats; Order/plan preparation time; Modifications to nuclear deception-related employment inputs.

OUTPUTS: Nuclear employment input to the deception annex.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

4.3.1.5.1 Prepare Nuclear Aspects Of Deception Concept.

PROCESS DESCRIPTION: To develop the nuclear aspects of the concept for deception operations for subsequent inclusion in the deception annex of the operation order or plan. (Derived)

INPUTS: Contingency roles for nuclear weapons in course of action branches and sequels; Description of the nuclear weapons-supported deception objective; Tactical SOP on order/plan formats; Order/plan preparation time; Modifications to nuclear deception-related employment inputs.

OUTPUTS: Description of the nuclear aspects of the deception concept.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

4.3.1.5.2 Prepare Nuclear Employment Deception Tasks.

PROCESS DESCRIPTION: To prepare the specific nuclear employment tasks and implementing schedules for the conduct of deception operations for subsequent inclusion in the deception annex of the operation order or plan. (Derived)

INPUTS: Contingency roles for nuclear weapons in course of action branches and sequels; Description of the role of nuclear weapons in deception operations; Tactical SOP on order/plan formats; Order/plan preparation time; Modifications to nuclear deception-related employment inputs.

OUTPUTS: Nuclear employment deception tasks.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

4.3.1.6 Prepare Operations Security Annex Input.

PROCESS DESCRIPTION: To prepare nuclear weapons employment-related portions of the OPSEC annex to the OPORD/OPLAN. (FM 101-5, pp. G-45 to G-47)

INPUTS: Nuclear employment counterintelligence guidance; Doctrine on protection of nuclear weapons indicators; Nuclear weapons physical protection requirements; Tactical SOP on order/plan formats; Order/plan preparation time; Modifications to OPSEC-related nuclear employment inputs.

OUTPUTS: Nuclear employment input to the operations security annex.

LOCATION: Plans and intelligence cells, main command post.

PROCESSOR: G2, G3.

4.3.1.6.1 Prepare Physical Security Measures.

PROCESS DESCRIPTION: To prepare the procedures for ensuring the physical security of nuclear delivery systems and weapons for subsequent inclusion in the operations security annex of the operation order or plan. (Derived)

INPUTS: Description of special measures to protect nuclear resources; Nuclear weapons physical protection requirements; Tactical SOP on order/plan formats; Order/plan preparation time; Modifications to OPSEC-related nuclear employment inputs.

OUTPUTS: Nuclear resource physical security measures.

LOCATION: Plans cell, main command post.

PROCESSOR: G3.

4.3.1.6.2 Prepare Information Security Measures.

PROCESS DESCRIPTION: To prepare the procedures for ensuring the security of nuclear weapons employment-related information for subsequent inclusion in the operations security annex of the operation order or plan. (Derived)

INPUTS: Description of special measures to hide nuclear employment intentions; Doctrine on protection of nuclear weapons indicators; Tactical SOP on order/plan formats; Order/plan preparation time; Modifications to OPSEC-related nuclear employment inputs.

OUTPUTS: Nuclear employment information security measures.

LOCATION: Plans and intelligence cells, main command post.

PROCESSOR: G3, G2.

4.3.2 Approve Order/Plan Inputs.

PROCESS DESCRIPTION: To approve, modify, or cause to be modified the portions of operations directives related to the employment of nuclear weapons. (ST 100-9, p. 6-2)

INPUTS: Nuclear employment inputs to operation order/plan; Concept of nuclear employment operations; Tactical SOP on plan and order development.

OUTPUTS: Approved nuclear employment inputs to operation order/plan; Modifications to nuclear employment inputs to operation order/plan.

LOCATION: Command cell, main command post.

PROCESSOR: Commander.

4.4 Develop Nuclear Strike Warning.

PROCESS DESCRIPTION: To develop a warning on the impending employment of nuclear weapons for friendly forces which are potentially affected by the employment. (FM 3-100, pp. 2-13, 2-14)

INPUTS: External situation reports; Commander's decision and concept for the employment of nuclear weapons; Nuclear employment coordination information; Nuclear weapons employment doctrine; Commander's supplementary planning guidance; SOPs.

OUTPUTS: Formatted orders/plans.
(Requests for situation update may be directed to the "Monitor Situation" function.)

LOCATION: Main and tactical command posts.

PROCESSOR: Commander and staff.

4.4.1 Determine Package/Subpackage MSDs.

PROCESS DESCRIPTION: To determine the specific geographical areas in which the effects of planned nuclear detonations are militarily significant. (FM 3-100, pp. 2-15, 2-16)

INPUTS: Nuclear weapons employment analysis procedures; Schedule of nuclear fires.

OUTPUTS: Minimum safe distances (MSDs).

LOCATION: Fire support cell and NBCC, main command post; Fire support element, tactical command post.

PROCESSOR: Target analyst, chemical officer.

4.4.1.1 Determine MSD 1 Zone.

PROCESS DESCRIPTION: To determine the minimum safe distance from the detonation(s) in which there is negligible risk to warned and protected personnel. (FM 3-100, pp. 2-15, 2-16)

INPUTS: Weapons to be employed; Target locations; Heights of burst; Damage estimation procedures.

OUTPUTS: Zone 1 minimum safe distance.

LOCATION: Fire support cell and NBCC, main command post; Fire support element, tactical command post.

PROCESSOR: Target analyst, chemical officer.

4.4.1.2 Determine MSD 2 Zone.

PROCESS DESCRIPTION: To determine the minimum safe distance from the detonation(s) in which there is negligible risk to warned and exposed personnel. (FM 3-100, pp. 2-15, 2-16)

INPUTS: Weapons to be employed; Target locations; Heights of burst; Damage estimation procedures.

OUTPUTS: Zone 2 minimum safe distance.

LOCATION: Fire support cell and NBCC, main command post; Fire support element, tactical command post.

PROCESSOR: Target analyst, chemical officer.

4.4.1.3 Determine MSD 3 Zone.

PROCESS DESCRIPTION: To determine the minimum safe distance from the detonation(s) in which there is negligible risk to unwarned and exposed personnel. (FM 3-100, pp. 2-15, 2-16)

INPUTS: Weapons to be employed; Target locations; Heights of burst; Damage estimation procedures.

OUTPUTS: Zone 3 minimum safe distance.

LOCATION: Fire support cell and NBCC, main command post; Fire support element, tactical command post.

PROCESSOR: Target analyst, chemical officer.

4.4.2 Determine Warning Requirements.

PROCESS DESCRIPTION: To determine which friendly forces require warning of nuclear detonation and when warnings should occur based on the tactical situation. (FM 3-100, p. 2-14)

INPUTS: Schedule of nuclear fires; Maneuver unit situation reports; Higher headquarters situation messages; Subordinate unit intelligence reports; Nuclear employment OPSEC guidance; Nuclear weapons security doctrine; Tactical SOP on warning messages; Concept of nuclear employment operations; Guidance on risk/ vulnerability criteria; Minimum safe distances (MSDs).

OUTPUTS: Listing of friendly forces to be warned; STRIKEWARN times.
(Requests for current and projected friendly and enemy situation update may be directed to the "Request Information" function.)

LOCATION: Current operations, intelligence, and fire support cells, main command post; Operations and fire support elements, tactical command post.

PROCESSOR: G3, G2, FSCoord.

4.4.2.1 Determine Friendly Vulnerability.

PROCESS DESCRIPTION: To determine the vulnerability to nuclear weapons effects of those units which are currently located or projected to be located in within minimum safe distance zones at the time of the detonation(s). (FM 3-100, pp. 2-14, 2-15)

INPUTS: Zone 1 minimum safe distance; Zone 2 minimum safe distance; Zone 3 minimum safe distance; Times on target; Maneuver unit current locations; Maneuver unit activities; Commander's course of action description; Guidance on troop safety requirements.

OUTPUTS: Friendly forces located within minimum safe distances; Risk to friendly forces.
(Requests for friendly unit current and projected locations and activities may be directed to the "Determine Information Needs" function.)

LOCATION: Current operations and fire support cells, main command post; Operations and fire support elements, tactical command post.

PROCESSOR: G3, FSCoord.

4.4.2.1.1 Identify Affected Units.

PROCESS DESCRIPTION: To determine friendly ground units and aircraft which are located or are projected to be located within the zones of warning of a nuclear detonation or group of detonations. (Derived)

INPUTS: Zone 1 minimum safe distance; Zone 2 minimum safe distance; Zone 3 minimum safe distance; Times on target; Maneuver unit current locations.

OUTPUTS: Friendly forces located within minimum safe distances.
(Requests for friendly unit current and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Current operations and fire support cells, main command post; Operations and fire support elements, tactical command post.

PROCESSOR: G3, FSCoord.

4.4.2.1.2 Determine Affected Unit Protection Level.

PROCESS DESCRIPTION: To determine the current and projected level of protection of units located in zones of warning. (FM 3-100, p. 2-14)

INPUTS: Friendly forces located within minimum safe distances; Times on target, Maneuver unit current locations; Maneuver unit activities; Commander's course of action description.

OUTPUTS: Friendly unit protection levels.

(Requests for friendly unit current locations and activities and projected locations may be directed to the "Examine Requests for Information" function.)

LOCATION: Current operations cell, main command post; Operations element, tactical command post.

PROCESSOR: G3.

4.4.2.1.3 Determine Risk To Friendly Units.

PROCESS DESCRIPTION: To determine the risk to friendly units based upon their location and level of protection (FM 3-100, p. 2-14)

INPUTS: Friendly forces located within minimum safe distances; Friendly unit protection levels; Specification of acceptable risk to friendly forces; Guidance on acceptable operational exposure levels; Guidance on acceptable friendly force vulnerability postures.

OUTPUTS: Risk to friendly forces.

LOCATION: Current operations cell, main command post; Operations element, tactical command post.

PROCESSOR: G3.

4.4.2.2 Examine Operational Requirements.

PROCESS DESCRIPTION: To analyze the situation in order to determine whether certain units will receive a nuclear strike warning based on security or time considerations or on the opportunity to exploit successful, surprise employment. (FM 3-100, p. 2-14)

INPUTS: Times on target; Friendly forces located within minimum safe distances; Risk to friendly forces; Maneuver unit locations; Maneuver unit activities; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Commander's course of action description; Commander's statement of intent; Description of the purpose of nuclear weapons in combat operations; Guidance on the role of nuclear weapons employment activities in deception operations; Nuclear employment counterintelligence guidance; Doctrine on protection of nuclear weapons indicators; Tactical SOP on criteria for issue of warning messages.

OUTPUTS: Listing of friendly forces to be warned.

(Requests for enemy and friendly unit current and projected locations and activities may be directed to the "Determine Information Needs" function.)

LOCATION: Current operations cell, main command post; Operations element, tactical command post.

PROCESSOR: G3.

4.4.2.3 Determine Time Of Warning.

PROCESS DESCRIPTION: To determine the most opportune time of warning based on friendly force preparation requirements and surprise to the enemy. (FM 3-100, p. 2-14)

INPUTS: Times on target; Listing of friendly forces to be warned; Maneuver unit locations; Maneuver unit activities; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Commander's course of action description; Commander's statement of intent.

OUTPUTS: STRIKEWARN times.

(Requests for enemy and friendly unit current and projected locations and activities may be directed to the "Determine Information Needs" function.)

LOCATION: Current operations and intelligence cells, main command post; Operations element, tactical command post.

PROCESSOR: G3, G2.

4.4.2.3.1 Determine Unit Preparation Time.

PROCESS DESCRIPTION: To determine the minimum time required for friendly units located in zones of warning to come to a level of protection commensurate with established guidance on troop safety. (Derived)

INPUTS: Listing of friendly forces to be warned; Maneuver unit locations; Maneuver unit activities; Commander's course of action description.

OUTPUTS: Friendly unit protection preparation time.
(Requests for friendly unit current and projected locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Current operations cell, main command post; Operations element, tactical command post.

PROCESSOR: G3.

4.4.2.3.2 Determine Target Reaction Capability.

PROCESS DESCRIPTION: To determine the minimum time it would take for enemy nuclear targets to move or protect themselves from the effects of nuclear weapons if they were to learn of the attacks. (Derived)

INPUTS: Times on target; Current enemy locations; Current enemy activities; Projected enemy locations; Projected enemy activities; Commander's course of action description; Commander's statement of intent.

OUTPUTS: Target reaction capabilities.
(Requests for enemy current and projected locations and activities may be directed to the "Examine Requests for Information" function.)

LOCATION: Intelligence cell, main command post; Operations element, tactical command post.

PROCESSOR: G2.

4.4.2.3.3 Set Warning Time.

PROCESS DESCRIPTION: To establish warning times for affected friendly units based on troop safety and operational requirements. (FM 3-100, p. 2-14)

INPUTS: Friendly unit protection preparation time; Target reaction capabilities.

OUTPUTS: STRIKEWARN times.

LOCATION: Current operations cell, main command post; Operations element, tactical command post.

PROCESSOR: G3, G2.

4.4.3 Prepare Warning.

PROCESS DESCRIPTION: To prepare a strike warning for dissemination by gathering all required warning data elements and determining the recipients of the warning. (FM 101-31-1, pp. 9, 10)

INPUTS: List of friendly forces to be warned; Maneuver unit locations; Schedule of nuclear fires; Nuclear weapons employment analysis procedures; Tactical SOP on warning messages; Minimum safe distances (MSDs).

OUTPUTS: Formatted STRIKEWARN message.

LOCATION: Current operations and fire support cells and NBCC, main command post; Operations and fire support elements, tactical command post.

PROCESSOR: G3, FSCoord, chemical officer.

4.4.3.1 Record Detonation Data.

PROCESS DESCRIPTION: To record all necessary data concerning the detonation(s) to include code words, date-time groups, coordinates, type bursts, and MSD's. (FM 101-31-1, p. 10)

INPUTS: Weapons to be fired; Times on target; Target locations; Heights of burst; Zone 1 minimum safe distance; Zone 2 minimum safe distance; Zone 3 minimum safe distance.

OUTPUTS: Recorded detonation data.

LOCATION: Fire support cell, main command post; Fire support element, tactical command post.

PROCESSOR: FSCoord.

4.4.3.2 Establish Protective Measures.

PROCESS DESCRIPTION: To prepare brief instructions concerning specific protective measures to be taken by friendly units which will be affected by nuclear detonations. (FM 101-31-1, pp. 10,11)

INPUTS: Recorded detonation data; Listing of friendly forces to be warned; Maneuver unit locations; Maneuver unit activities; Doctrine on MSD protective measures.

OUTPUTS: Protective measure requirements.

LOCATION: Current operations cell, main command post; Operations element, tactical command post.

PROCESSOR: G3.

4.4.4 Format STRIKEWARN.

PROCESS DESCRIPTION: To place warning code words, detonation data, and minimum safe distance data in the established STRIKEWARN format. (Derived)

INPUTS: Recorded detonation data; Listing of friendly forces to be warned; Protective measure requirements; Tactical SOP on warning message formats.

OUTPUTS: Formatted STRIKEWARN message.

LOCATION: NBCC, main command post.

PROCESSOR: Chemical officer.

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TRC

15 April 1997

MEMORANDUM FOR DEFENSE TECHNICAL INFORMATION CENTER
ATTN: OMI/MR. BILL BUSH

SUBJECT: Report Distribution Changes

The Defense Special Weapons Agency (Formerly Defense Nuclear Agency) has reviewed the following reports under FOIA actions:

DNA-TR-90-33-V1, AD-B150535
DNA-TR-90-33-V2, AD-B150536
DNA-TR-90-33-V3, AD-B150824
DNA-TR-90-33-V4, AD-B150825

Under FOIA action, these reports are approved for **public release**. Distribution statement "**A**" now applies.

Arldith Jarrett
ARDITH JARRETT
Chief, Technical Resource Center