

Perspectives

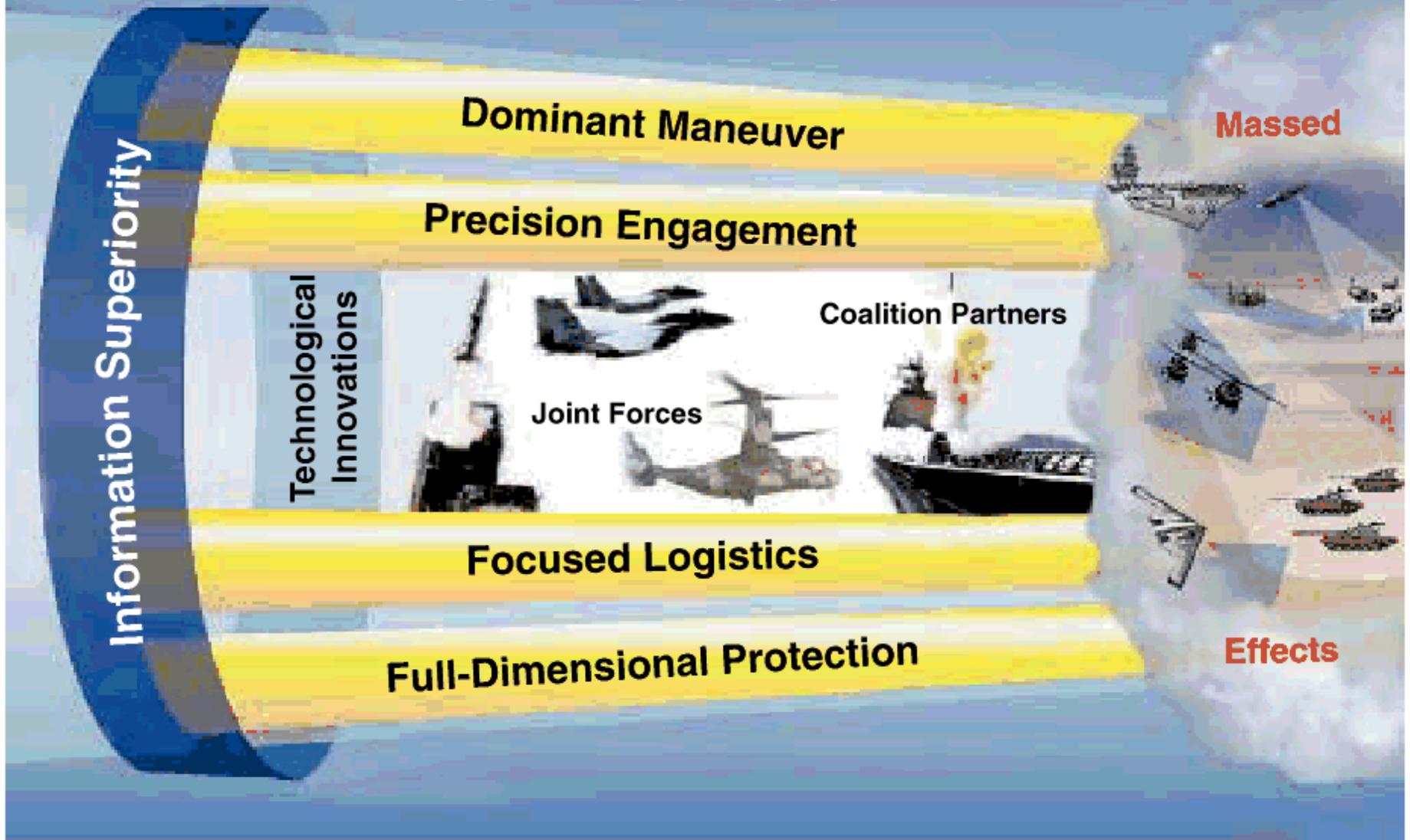


- The Warfighter cares about Credibility.
- The Developer cares about Completeness.
- The Program Manager cares about Cost.

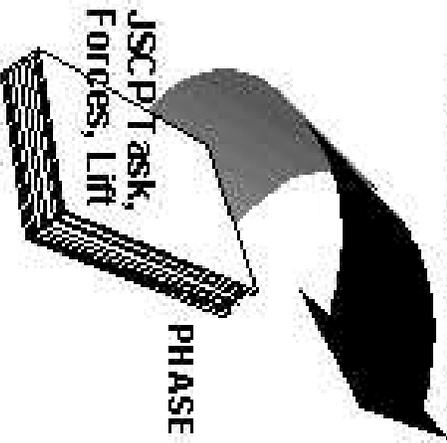
Achieving all three requires Content
Composability

Emerging Operational Concepts

Joint Vision 2010



The Deliberate Planning Process



PHASE I INITIATION

CINC receives planning task and guidance from CJCS
Major forces and strategic lift assets available for
planning are apportioned

PHASE II CONCEPT DEVELOPMENT

Mission statement is deduced
Subordinate tasks are derived
Alternative courses of action are analyzed
Concept of operations is developed and documented
THE PRODUCT: CINC'S STRATEGIC CONCEPT

PHASE III PLAN DEVELOPMENT

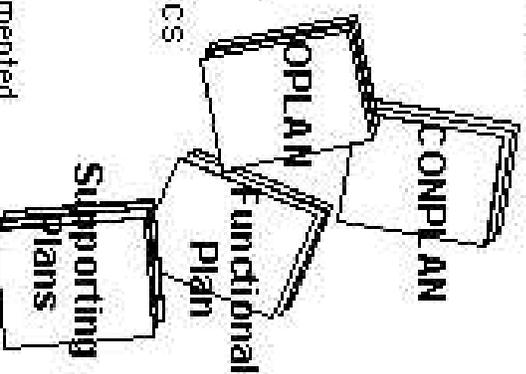
Forces are selected and time-phased
Support requirements are computed
Strategic deployment is simulated
Shortfalls are identified and resolved
Operation Plan is documented
THE PRODUCT: A COMPLETED PLAN

PHASE IV PLAN REVIEW

Operation Plan is reviewed and approved by CJCS
CINC revises plan (AW) review comments
THE PRODUCT: AN APPROVED PLAN

PHASE V SUPPORTING PLANS

Supporting plans are completed, documented,
and validated
THE PRODUCT: A FAMILY OF PLANS

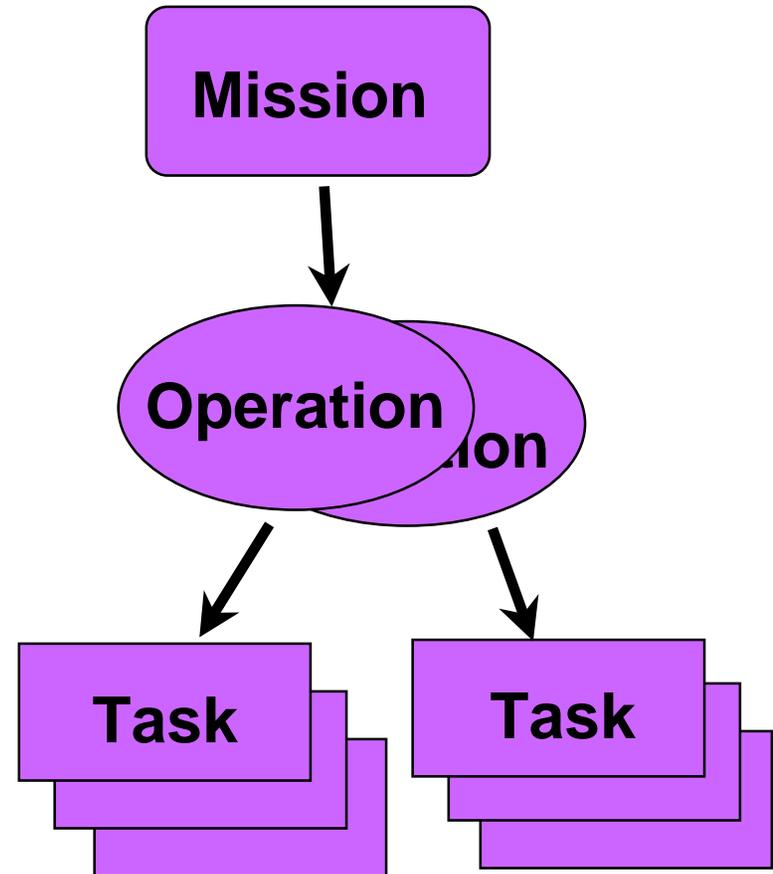


Phase III: Plan Development

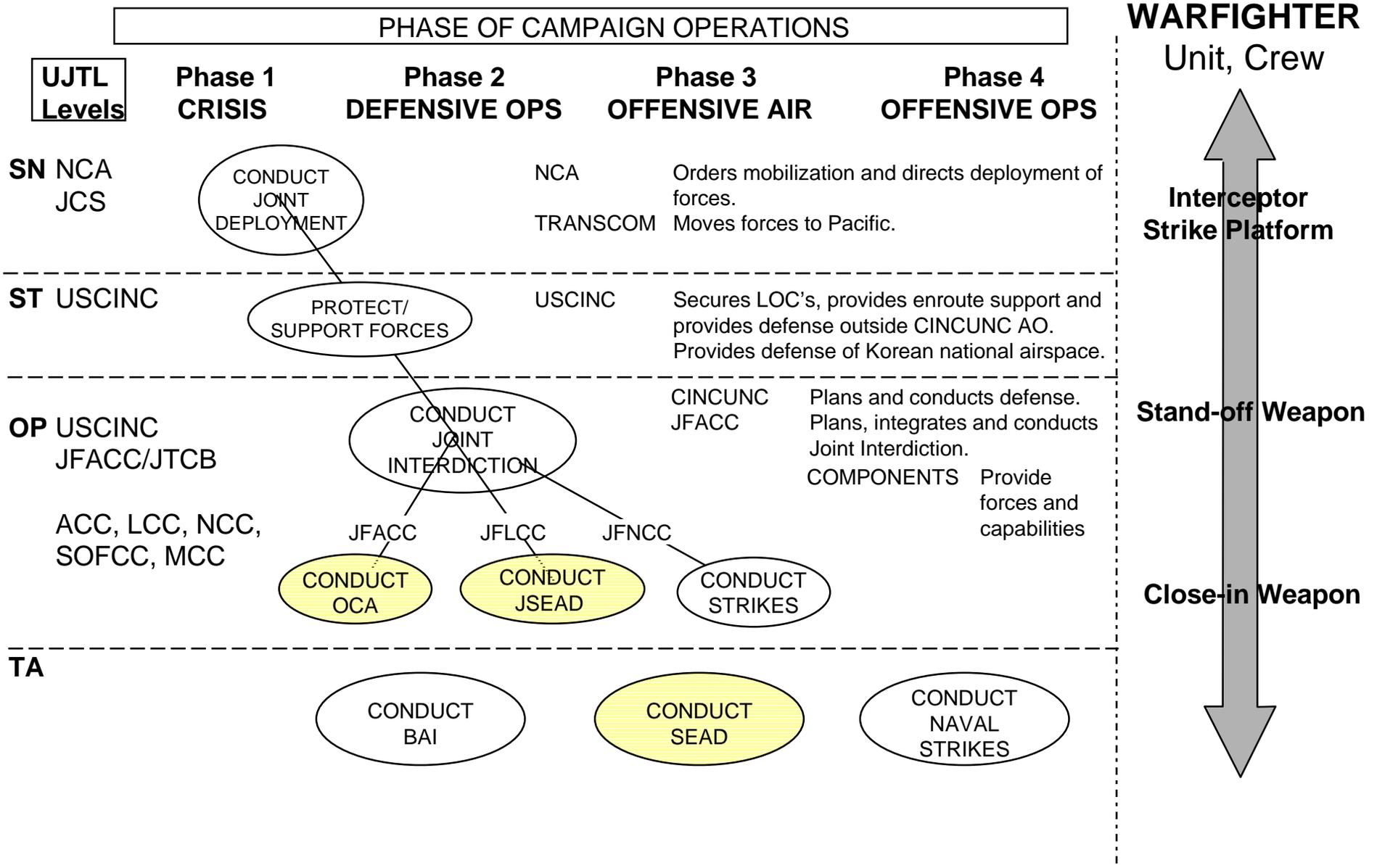
- Operational Plans & Orders (OPLAN, OPORD) are the initiation point for military operations.
- In a typical situation, the operational staff:
 - Receive commander's guidance for a mission.
 - Identify the tasks required to complete the mission.
 - Identify the resources required to execute the tasks.
 - Develop the OPORD and task-organize the force by iterating between required tasks and available resources in the context of commander's guidance.

CONDUCT MISSION ANALYSIS

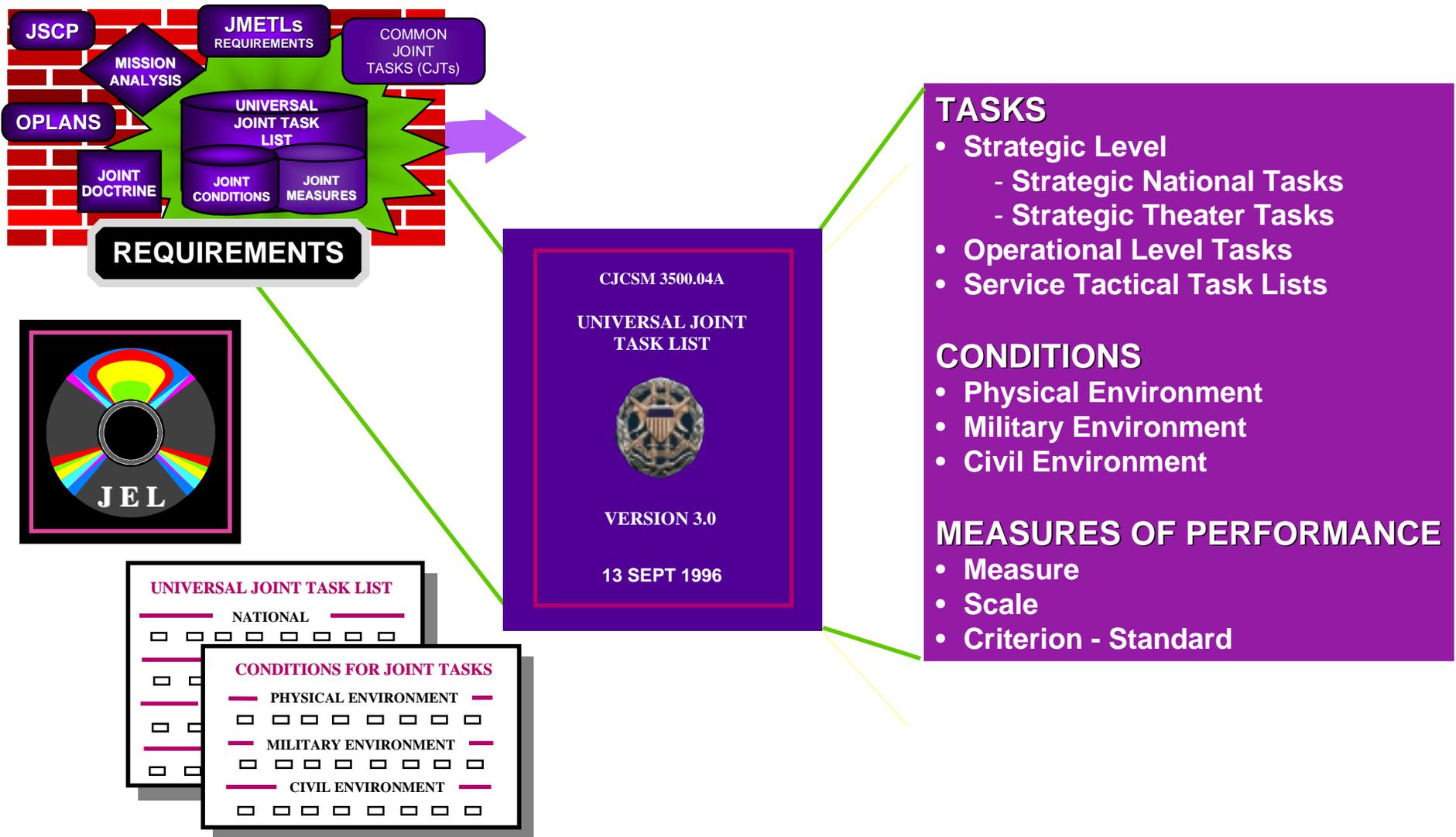
- **Mission** is assigned to CINC. Concept of operations may include a number of operations.
- **Operations**, the building blocks of mission planning, are comprised of multiple tasks.
- **Tasks** are the fundamental building blocks of missions, and are executed by specific units or organizations.



Joint Interdiction Mission Decomposition



(UJTL)



DEFINITION OF MEASURE

Measures **distinguish among varying levels of task performance**. More than one measure may be specified for any single task.

Task:

OP 2.2.1 Collect Information on Operational Situation

Measures:

SCALE	MEASURE
Time	To retask collection asset
Time	Since most current intel. info. was collected
Percent	Of collection requirements filled
Percent	Of collection reqmts filled by multiple sources
Percent	Of targets accurately located
Percent	Of targets accurately identified

MISSION-BASED TASK STANDARDS

Standards express the **degree to which** (how well) a **military organization** or force **must perform** a **task*** under a specified set of **conditions**.

A **criterion** defines **acceptable levels of performance** for a measure and is often expressed as a minimum acceptable level of performance.

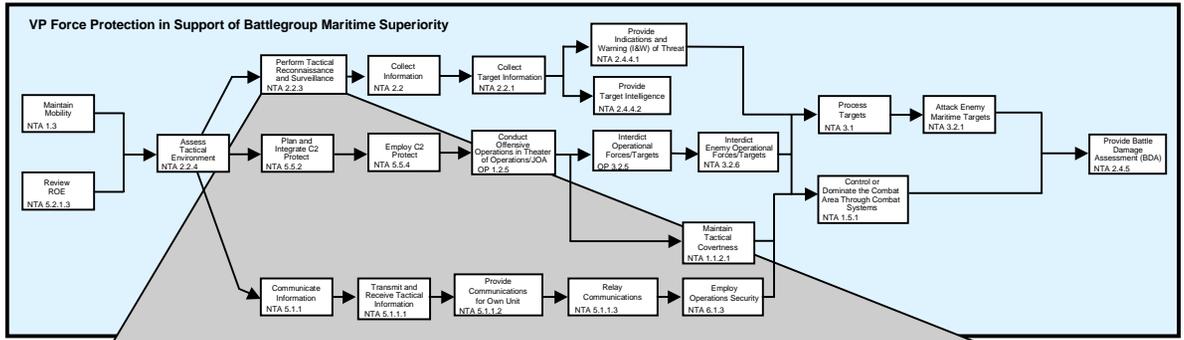
Standard:

<u>Criterion</u>	<u>Scale</u>	<u>Measure</u>
100	km x km	sector search area
5	minute	sector search time
90	percent	probability of detecting threat
1	percent	false alarm rate

*e.g.; **Collect Information on Operational Situation (OP2.2.1)**

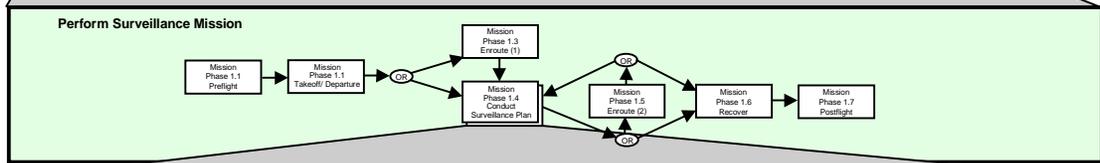
Mission-Based Training Hierarchy

Operations Template

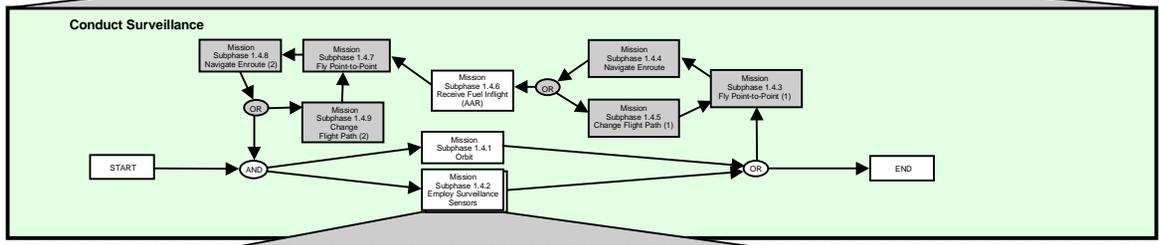


Operations and Tasks

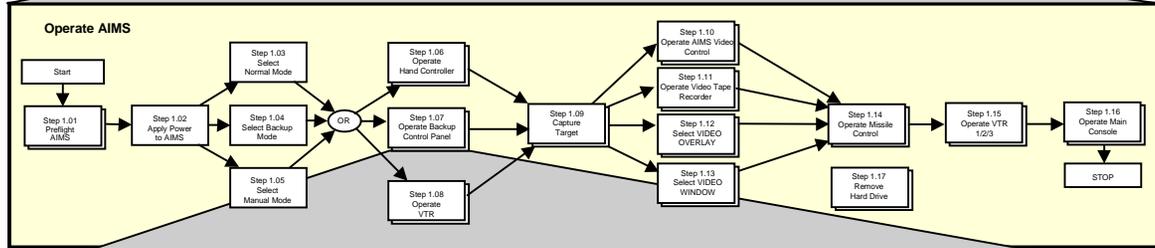
Mission Template



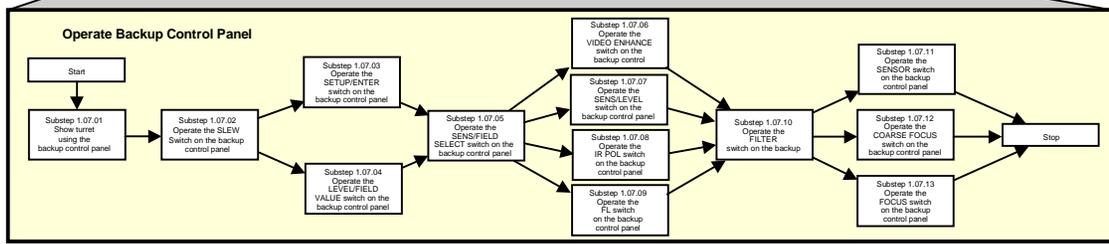
Missions, Phases, and Tasks



Task Template

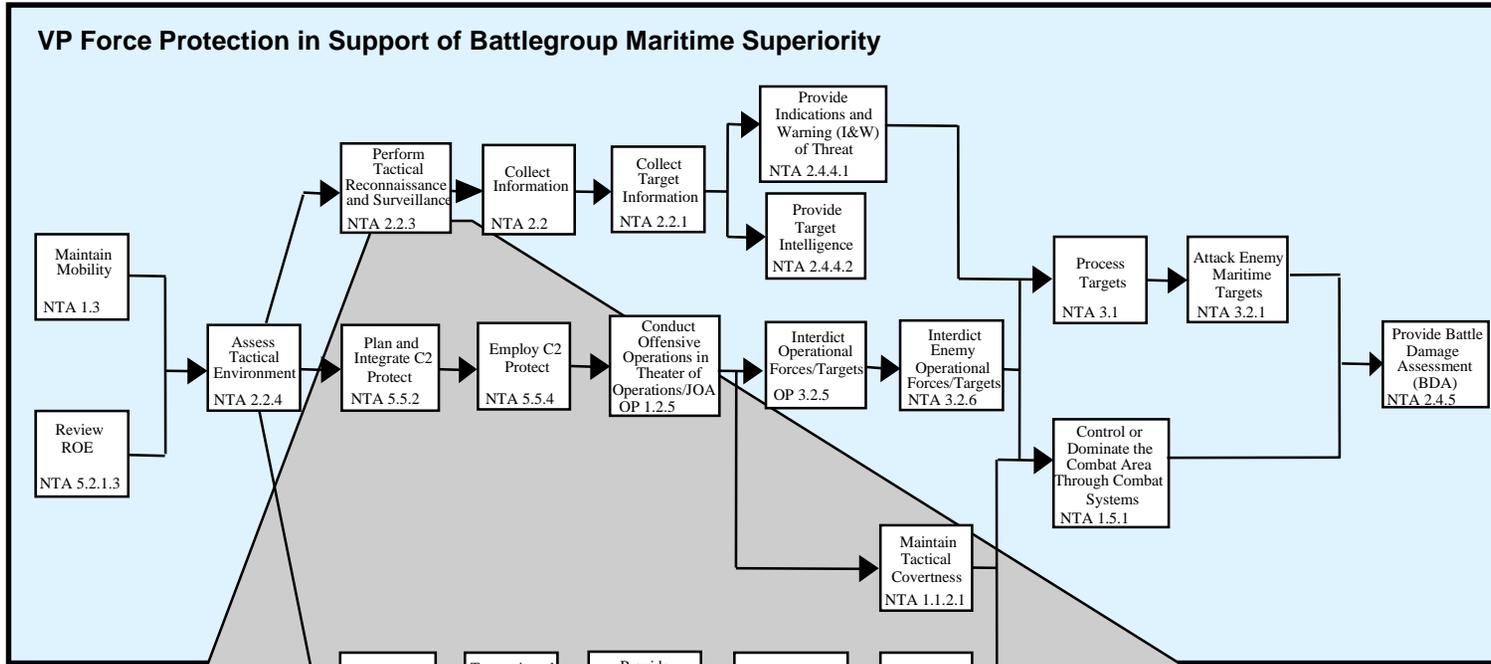


Individual/ Collective Tasks, Steps, and Substeps



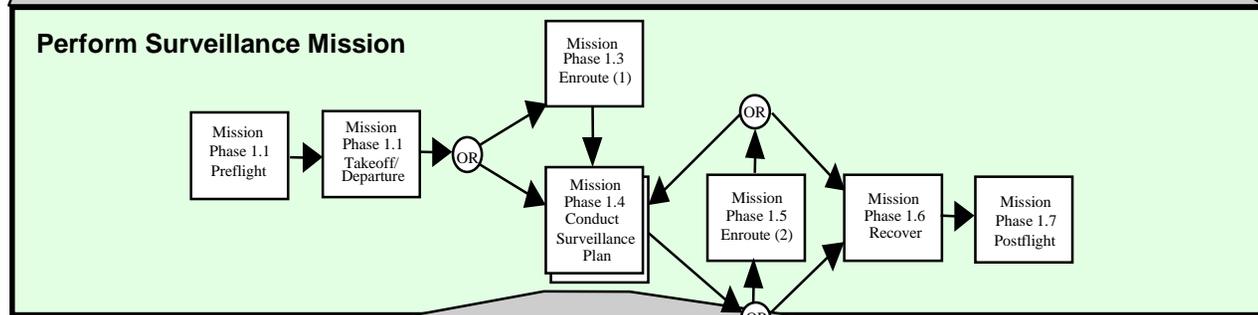
Mission-Based Training Hierarchy

Operations
Template



Operations
and Tasks

Mission
Template



Missions,
Phases,
and Tasks

PERFORMANCE ASSESSMENT

TASK: Perform Tactical Recce and Surveillance (NTA 2.2.3)

PERFORMED BY: CVW 8

OBSERVED CONDITIONS:

- C 1.3.2.1 Light Negligible (overcast night)
- C 2.2.4.6 Personnel Fatigue Moderate
- C 2.6.7 Intelligence data base Adequate

OBSERVED PERFORMANCE:

5 Hours to respond to emergent tasking

95 Percent of time able to respond to collection requirements

90 Percent of collection requirements fulfilled by recce/surv assets

OBSERVATION DISCUSSION:

Personnel fatigue impaired
timely task execution.

RECOMMENDED ACTION:

Increase number of aircrews to reduce
fatigue. Increase training under low light
conditions.

PERFORMANCE ASSESSMENT

TASK: Conduct Surveillance Plan (Mission Phase 1.4)

PERFORMED BY: VP-46

OBSERVED CONDITIONS:

- C 1.3.2.1 Light Negligible (overcast night)
- C 2.2.4.6 Personnel Fatigue Severe
- C 2.6.7 Intelligence data base Adequate

OBSERVED PERFORMANCE:

7 Hours to respond to emergent tasking

90 Percent of time able to respond to collection requirements

95 Percent of collection requirements fulfilled by recce/surv assets

OBSERVATION DISCUSSION:

Personnel fatigue impaired
timely task execution.

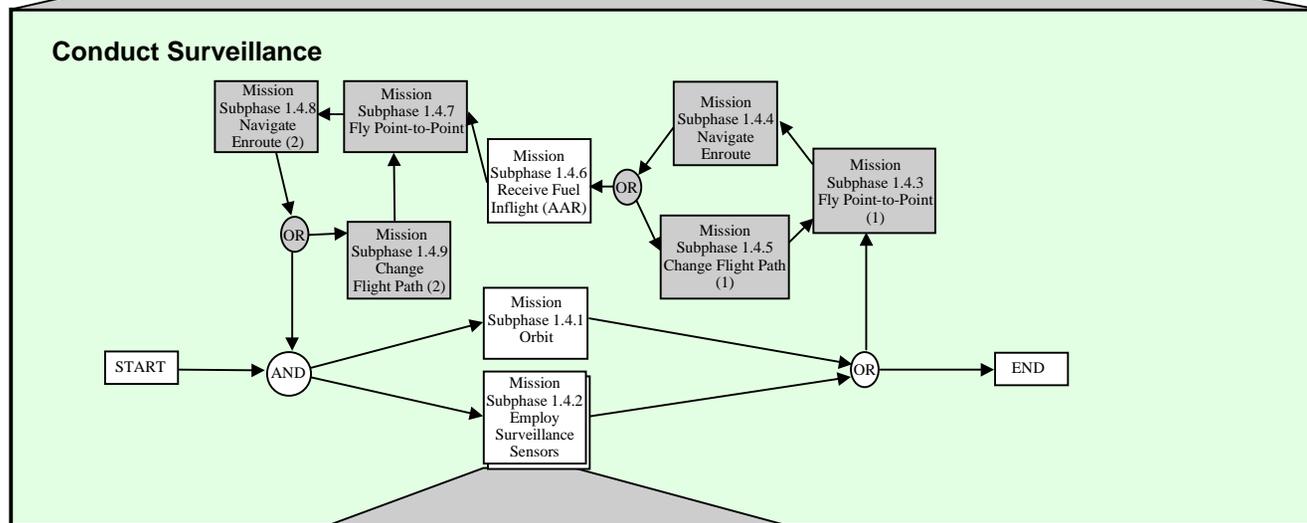
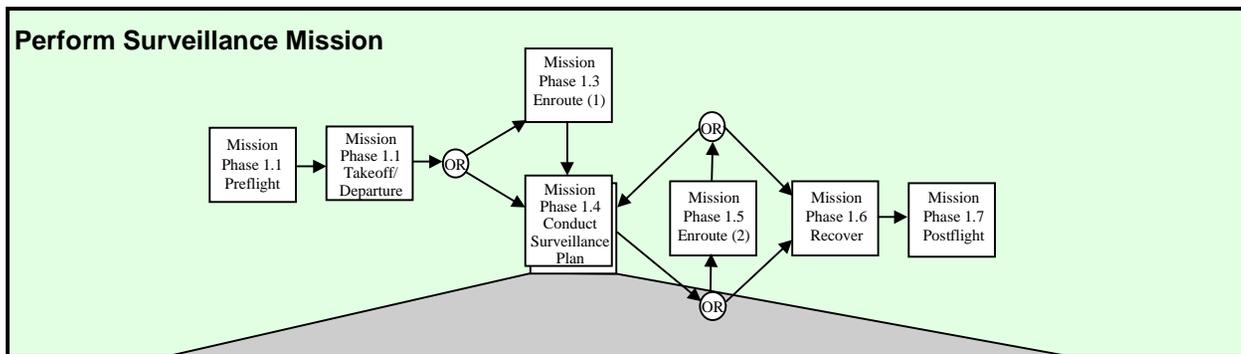
RECOMMENDED ACTION:

Increase number of aircrews to reduce
fatigue. Augment VP 46. Increase
training under low light conditions.

Mission-Based Training Hierarchy

Mission Template

Missions, Phases, and Tasks



PERFORMANCE ASSESSMENT

TASK: Operate Advanced Imagery Multi-Spectral Sensor (AIMS)

PERFORMED BY: Radar Operator - Sensor 3 (SS3)

OBSERVED CONDITIONS:

- C 1.3.2.1 Light Negligible (overcast night)
- C 2.2.4.6 Personnel Fatigue Severe
- C 2.6.7 Intelligence data base Adequate

OBSERVED PERFORMANCE:

5 Hours to respond to emergent task

95 Percent of time able to respond to collection requirements

2 Percent of collection requirements fulfilled by recce/surv assets

OBSERVATION DISCUSSION:

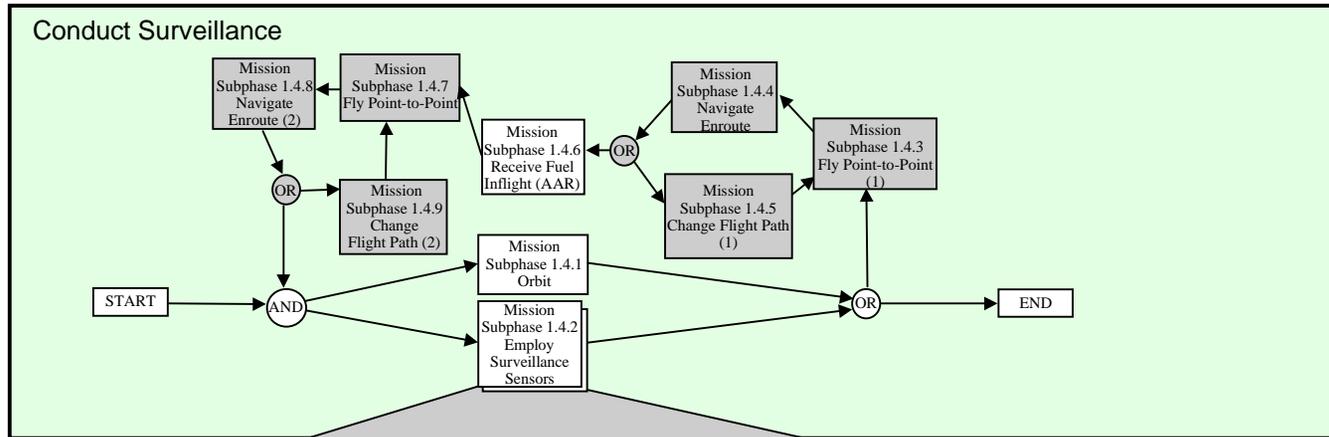
When main control panel failed due to overheating, personnel had difficulty operating backup control panel in timely manner.

RECOMMENDED ACTION:

Increase training on Backup Control Panel. Fix Main Control Panel cooling problem.

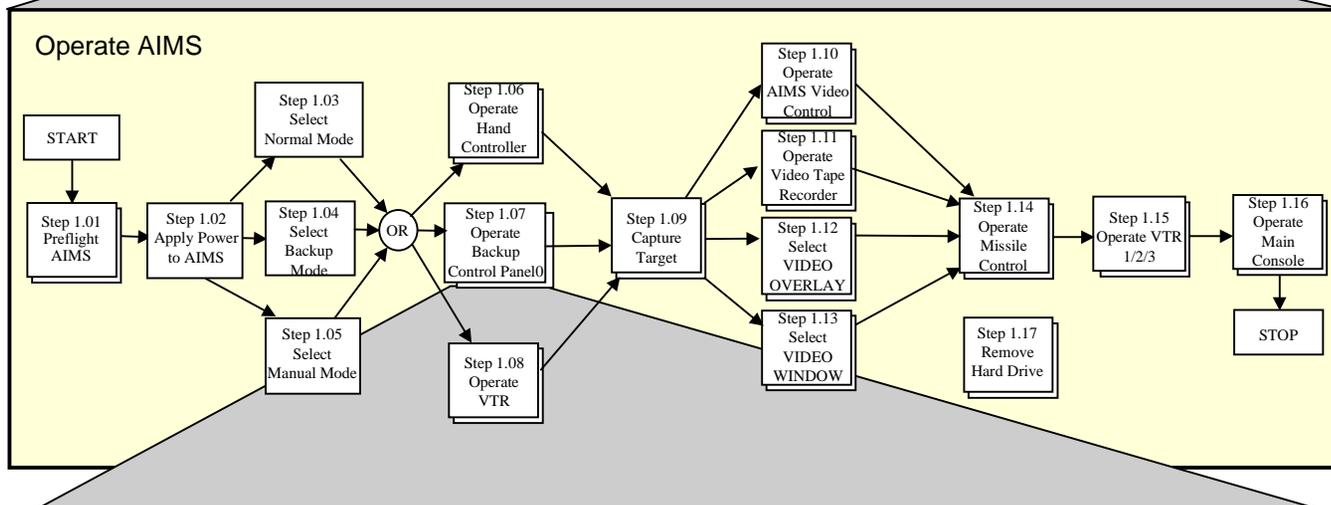
Mission-Based Training Hierarchy

**Mission
Template**



**Missions,
Phases,
and Tasks**

**Task
Template**



**Individual/
Collective
Tasks, Steps,
and Substeps**

PERFORMANCE ASSESSMENT

TASK: Operate Backup Control Panel

PERFORMED BY: Radar Operator - Sensor 3 (SS3)

OBSERVED CONDITIONS:

- C 1.3.2.1 Light Negligible (overcast night)
- C 2.2.4.6 Personnel Fatigue Severe
- C 2.6.7 Intelligence data base Adequate

OBSERVED PERFORMANCE:

5 Hours to respond to emergent task

95 Percent of time able to respond to collection requirements

2 Percent of collection requirements fulfilled by recce/surv assets

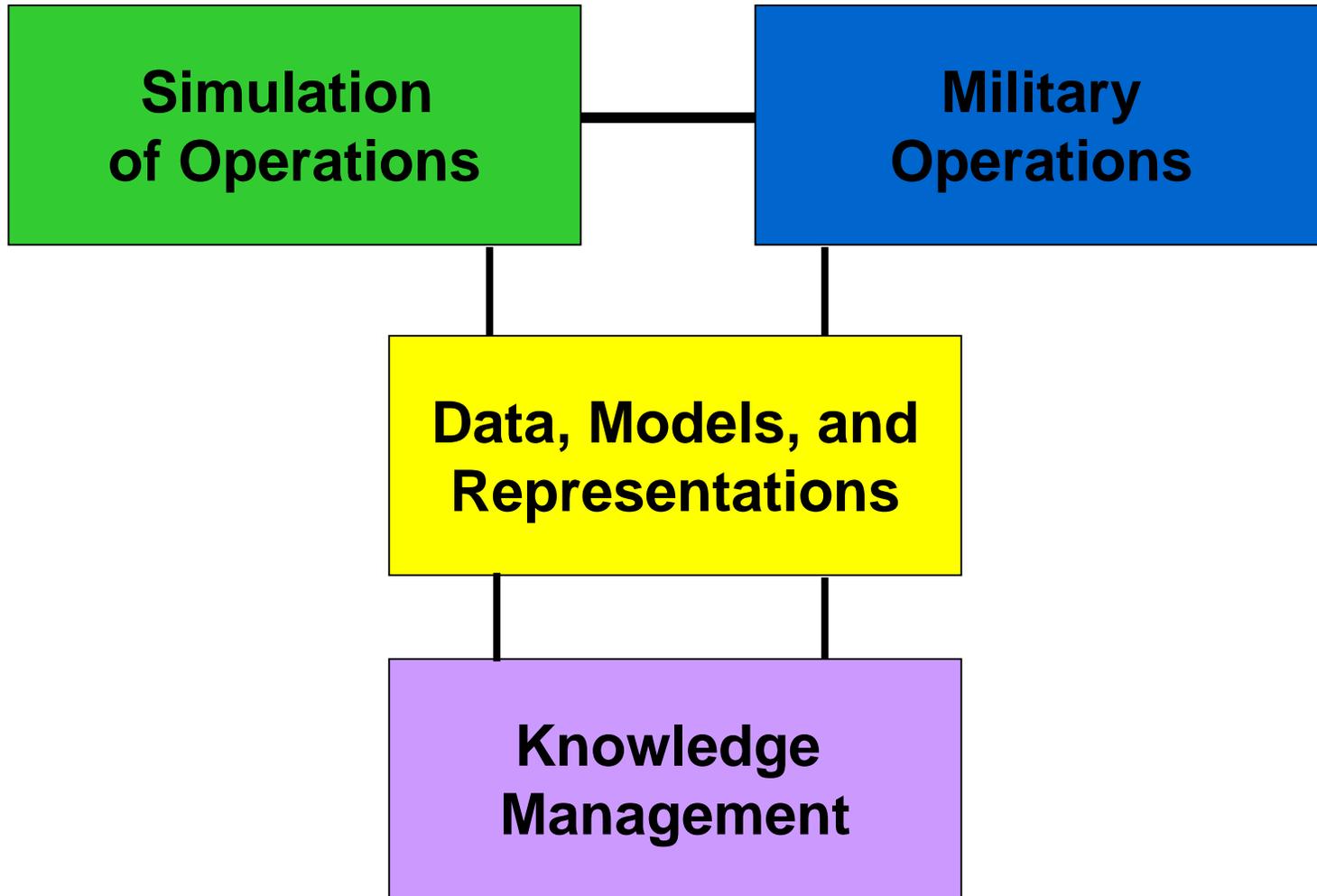
OBSERVATION DISCUSSION:

Personnel were unfamiliar with location of Backup Control Panel indicators and operator procedures.

RECOMMENDED ACTION:

Increase training on Backup Control Panel

Information-Intensive Warfare, Digitization of the Battle blurs distinctions between simulations and operations



Stating the Problem “the same old Physical Capabilities way”

Mission:

- Main Battle Tank closes with and destroys enemy

Key Performance Parameter:

- 90% probability of kill at 5000 meters.

***Will inevitably constrain the range of solutions to “ the same old... “
Monolithic Single-Platform, Mechanically-Integrated Physical Hunter-Killer***

Stating the Problem “the emerging Mission Capabilities way”

Mission:

- FCS halts OPFOR advance by drawing the enemy into the open for destruction by an affordable combination of direct and indirect fires.

Key Performance Parameter:

- Prevent OPFOR firing platform closure to lethal firing positions on manned FCS platforms using awareness, stealth, mobility, and fire.

***Will open the range of solutions to consider “ the emerging... “
Distributed Multi-Platform, Digitally-Integrated Virtual Hunter-Killer”***