

**BRAC 2005**  
**Technical Joint Cross-Service Group (TJCSG)**  
**Meeting Minutes of 25 August 2004**

Mr. Shaffer chaired the meeting. The agenda is enclosed in attachment 1. The list of attendees is enclosed in attachment 2. Pre-meeting documentation for the meeting is enclosed in attachment 3. The primary objective for the meeting was for the TJCSG principals to decide on three notional training scenarios to submit to the ISG for the Friday, 27 Aug 04, ISG Meeting. The TJCSG Principals were also to approve the Interim Capacity Analysis Report. The key points, decisions and action items from the meeting are as follows:

CIT/TJCSG Current Status with the WBS – COL DeSalva

**Key Points:**

- TJCSG is approximately one week behind schedule and will be approximately two weeks behind at the end of the analysis phase of the process

Review of E&T Capacity Issue – Dr. Foulkes

**Key Points:**

- First slide is not part of the presentation and was skipped over intentionally
- Ranges Subgroup was tasked to define Maximum Potential Capacity
- Concern is this is not measurable and the same tasking will be imposed on the TJCSG
- Peak Demonstrated Capacity is currently defined as the average of FY01, FY02 and FY03 demonstrated capacity
- Ranges are proposing definition of Maximum Potential Capacity as:  
$$MPC_{OAR} = \sum_{\text{Sub Ranges}} (\text{Max \# of simultaneous operations}) \times (\text{max range hours/day}) \times (\text{max days/yr})$$
- Each OAR would have its own MPC
- Data would need to be obtained at the sub-range level
- Notional data indicate extremely high values for  $MPC_{OAR}$
- Ranges Subgroup seeking TJCSG support to not use this equation as it could potentially create decisions to be driven from using a term such as this which is not very meaningful
- OSD BRAC office will not allow any additional data calls so the sub range level data is not obtainable anyway
- Excess Capacity = Current Capacity – Current Usage – Surge

**Decisions:**

- TJCSG will take the position of using the current definitions for capacity and not changing these

- TJCSG will meet with the E&T JCSG to come to agreement on this issue in hope both JCSGs will be able to proceed with the definitions as previously agreed to. COL Buckstad will work it at the Council of Colonels level and Mr. Shaffer will meet with Mr. Hallett of the E&T JCSG. Mr. Shaffer and COL Buckstad will report back to the TJCSG on the resolution.

#### Proposed Notional Training Scenarios – Mr. Shaffer

#### **Key Points:**

- Three notional training scenarios are due to the ISG by noon today, 25 August 2004
- Proposed scenarios from the CIT were:
  1. Electronic Warfare (EW) Integrated Test & Training Consolidation
  2. Consolidation of Aircraft RDAT&E
  3. Consolidation of Fixed-Wing Aircraft RDAT&E
  4. Consolidation of Rotary-Wing Aircraft RDAT&E
  5. Consolidation of Armaments RDAT&E
  6. Consolidation of Guns & Ammo RDAT&E
  7. Consolidation of Missile/Bomb RDAT&E
  8. Joint C4ISR D&A Training Scenario
  9. Combined Enabling Technology Research Locations
- Several of these scenarios would require Sub-DTAP data and the OSD BRAC office has indicated the JCSGs will not be permitted to go out with additional data calls.
- Some of the TJCSG Principals express concern for including 6.2 and 6.3 funding in the Combined Enabling Technology Research Locations

#### **Decisions:**

- C4ISR scenario will go forward but will be changed to not specify the National Capitol Region
- TJCSG selected the three following notional training scenarios for submittal to the ISG:
  1. Joint C4ISR D&A Training Scenario with the reference of moving it to the National Capitol Region being omitted. It will include all RDA not just D&A.
  2. Consolidation of Aircraft RDAT&E specifying requirement for additional sub-DTAP data
  3. Consolidation of Armaments RDAT&E specifying requirement for additional sub-DTAP data
- TJCSG members were asked to review the chosen scenarios and to provide comments to Ms Felix prior to 1100 hrs EDT so she can incorporate them prior to submittal to the ISG at 1200 hrs today
- TJCSG decided not to use the LOM for cross-bin scenarios.
- CIT will finalize the Rules for the LOM

Requirement for Supplementary Data Calls (Issue Paper #08-18-04-02) – Mr. Mathes

**Key Points:**

- Supplemental Data Call is required for analysis of Sub-DTAP areas.
- Since additional data calls will not be permitted by the OSD BRAC Office, the LOM will be run at the DTAP level and Sub-DTAP data will be gathered in the Scenario Data Call.

**Decisions:**

- TJCSG will request clarification of data for specific Sub-DTAP areas
- TJCSG will raise the necessity for Sub-DTAP data at the ISG Meeting.

Sub-Capability Identification within the current DTAP Collection Framework (Issue Paper #08-25-04-01) – Mr. Cahill

Time did not permit.

Capacity Measures for LOM Runs (Issue Paper # 07-30-04-02) – Mr. Mleziva

**Key Points:**

- FTEs need to be added as a capacity measure to the D&A and T&E Functions to facilitate cross-Function analysis.

**Decisions:**

TJCSG approved the recommendation to include FTEs as a capacity measure for the D&A and T&E function

Decision Criteria for Candidate Recommendations (Issue Paper #07-30-04-05) Mr. DeYoung

**Key Points:**

- TJCSG was requested to review this paper

**Decisions:**

- CIT will refine this and present at next TJCSG Meeting

August Capacity Analysis Report – COL Evans

**Key Points:**

- TJCSG is required to submit an updated interim capacity report today.

**Decisions:**

- TJCSG approved the paper (5 pager only) and decided to send the paper without the attachments as these attachments require additional work

**Final Comments:**

TJCSG will begin showing Data Status at each meeting

**Action Items:**

1. TJCSG will meet with the E&T JCSG to come to agreement on this issue in hope both JCSGs will be able to proceed with the Capacity definitions as previously agreed to. COL Buckstad will work it at the Council of Colonels level and Mr. Shaffer will meet with Mr. Bob Hallitt of the E&T JCSG. Mr. Shaffer and COL Buckstad will report back to the TJCSG on the resolution. A draft memo will be prepared from Dr. Sega to Mr. Abell prior to the 2 Sep 04 TJCSG Meeting.

(Action Officer: COL Buckstad)

2. TJCSG members were asked to review the chosen scenarios and to provide comments to Ms Felix prior to 1200 hrs EDT so she can incorporate them prior to submittal to the ISG. Due by 1100 hrs today, 25 Aug 2004, with final submittal at noon. (TJCSG Principal Members)

3. TJCSG will request ISG to allow supplemental data call to allow collection of sub-DTAP data for those areas of primary interest in scenarios. Due: 27 Aug 2004 ISG Meeting (Action Officer: Mr. Shaffer)

4. CIT to Refine DeYoung Paper regarding Decision Criteria for Candidate Recommendations (Issue Paper #07-30-04-05). Prepare recommendation for approval by TJCSG at next TJCSG Meeting, 8 Sep 2004. (Action Officer: Mr. Shaffer)

5. Analysis Team will work with Col Walling on the Capacity Report to finalize the attachments for the submittal of the final Capacity Report. Due ? (Action Officers: Col Evans and Col Walling)

- TJCSG Meeting (VTC) for 1 Sep 04 was cancelled.
- Next TJCSG Meeting (VTC) is scheduled for 8 September 2004, 0900-1000 hrs EDT, Pentagon VTC Rm 4C1061.

August 25, 2004

BRAC FOUO

Approved: \_\_\_\_\_



Mr. Alan R. Shaffer

Acting Chairman, Technical Joint Cross Service Group

Attachments:

1. Outline -Agenda
2. List of Attendees
3. Pre-meeting documentation

# **Technical Joint Cross Service Team (TJCSG) Meeting (VTC)**

**25 Aug 2004, 0900 - 1000 Hrs EDT**

**Pentagon, Room 4E987**

## **Agenda**

- 1. Review of E&T capacity issue (John Foulkes will discuss)**
- 2. Issue Papers:**
  - a. Don Deyoung's Paper on Decision Support Criteria (07-30-04-05, Decision Criteria for Candidate Recommendations)**
  - b. Tom Mathes paper on Sub DTAP level collection (08-18-04-02, LOM Scenario Data Call)**
- 3. Proposed Training Scenarios**
- 4. 20 Aug Capacity Report**

**Attachment 2**  
**Technical JCSG Meeting**  
**August 25, 2004**  
**Attendees**

**Members:**

Mr. Al Shaffer, TJCSG Chairman (Alternate for Dr. Ron Sega)  
Dr. Dan Stewart, AF (via VTC)  
Dr. J. Foulkes, Army  
Dr. Barry Dillon, Marines (via VTC)  
Mr. George Ryan, Navy (alternate for RADM Jay Cohen)

**Other:**

Mr. Don DeYoung, Navy CIT Alternate  
Mr. Al Goldstyan, AF CIT Rep  
Dr. Bob Rohde, Army CIT Rep  
Dr. Larry Schuette, Navy  
COL Pete DeSalva, Marines  
Mr. Gary Strack, OSD  
Mr. Thom Mathes, Army (via telephone)  
Mr. Steve Kratzmeier, Army  
Mr. Pete Cahill, Army  
Dr. Jim Short, OSD  
Mr. Jerry Schiefer, OSD BRAC  
Col Eileen Walling, AF (via VTC)  
COL Joe Kennedy, Marines  
Mr. Brian Simmons, Army, (via VTC)  
Maj Ron Mahn, OSD  
Ms. Marie Forlini-Felix, OSD



# Combined Enabling Technology Research Locations

Scenario	Drivers/Assumptions
<ul style="list-style-type: none"><li>■ <b>Enabling Technology Research Programs</b> of the Military Services &amp; Defense Agencies are planned &amp; conduct at two locations<ul style="list-style-type: none"><li>• Includes all 6.1, much 6.2, some 6.3</li><li>• Enabling technology defined as research within all 13 DTAPs which may be applicable to multiple weapon systems or multiple platforms</li><li>• Physical integration of Military Service &amp; Defense Agency staff @ each location</li><li>• No other change in Service/Defense Agency business procedures are mandated in the scenario (Joint is an optional scenario)</li></ul></li></ul>	<ul style="list-style-type: none"><li>■ <b>Principle:</b> Defense research information readily available to all Military Services &amp; Defense Agencies at the location</li><li>■ <b>Transformational Options:</b> Facilitates inter-Service &amp; inter-Agency sharing and application of research information</li><li>■ <b>Other:</b><ul style="list-style-type: none"><li>• Applied research, highly integrated into a Service weapons system or platform, is more appropriately planned and conducted in a Military Service laboratory</li><li>• Two sites protect against single point failure &amp; foster intellectual competition</li></ul></li></ul>
Justification/Impact	Potential Conflicts
<ul style="list-style-type: none"><li>■ <b>Potential realignments or closures:</b> ARL, NRL, AFRL, some research functions @ Army Research, Development &amp; Engineering Centers &amp; ARO, some research functions @ Navy Warfare Centers &amp; ONR, some research functions @ AFOSR, some research functions @ Defense Agencies</li></ul>	<ul style="list-style-type: none"><li>■ Adverse impact of separating enabling research from applied research at the existing “wide-spectrum” locations (e.g., NRL, RDECS, Warfare Centers, ARO, ONR, AFOSR, Defense Agencies)</li></ul>

**REQUIREMENT FOR SUPPLEMENTARY DATA CALLS**  
**Issue 08-18-04-02**

**Issue:** REQUIREMENT FOR SUPPLEMENTARY DATA CALLS

**Point of Contact:** Thom Mathes

**Issue Summary:**

- The fidelity of the data (DTAP level) that is currently being obtained to support a number of potential scenarios (sub-DTAP level) being considered by the TJCSG is not at that level of indenture.
- To analyze potential sub-DTAP scenarios the LOM requires maximum capacity, capacity and MIL VAL for those facilities doing that work. Right now the TJCSG is only obtaining data at the DTAP level.
- An additional supplementary data call is needed to provide the means to obtain maximum capacity, capacity data and MIL VAL with which to perform a LOM analysis at the sub-DTAP level.
- The IG also noted that should the TJCSG seek to obtain a lower level of data it will not be validated by the military audit agency.

**Recommendation(s):**

- That the TJCSG meet with OSD BRAC office to establish the criteria that needs to be met to obtain additional certified data necessary to support the potential scenario analytical process.
- That the TJCSG meet for the purpose of reviewing and prioritizing potential scenarios proposed by the sub-groups, CIT and TJCSG that should go forward. For those potential scenarios identified by the TJCSG requiring additional data at the sub-DTAP level, the TJCSG would authorize a supplemental data call IAW OSD BRAC office guidance to those technical facilities identified as doing that work.
- Should a decision be made not to go out for a supplemental data call in support of a potential scenario, the default decision will be for the sub-groups to use the data it has and operate the LOM at the "bin" level for selected facility sets. The subgroups will use the LOM on all facilities or some logical constrained subset determined by "expert" military judgment to identify gaining and losing technical facilities for those candidate/notional scenarios at the sub-DTAP level (i.e., rotocraft & fixed wing; bombs, guns, missiles, etc.). Another possible option would be to convene a group of outside experts to meet, deliberate, and take their documented recommendations into scenario.

**Army Position:** concur

**AF Position:** concur

**Navy Position:** concur

**Marine Corps Position:** concur

**JCS Position:** concur



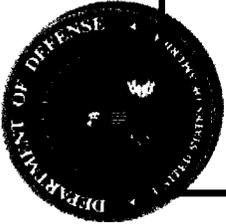
# Electronic Warfare(EW)Integrated Test & Training Consolidation

<p><b>Scenario</b></p> <ul style="list-style-type: none"><li>■ Examine consolidating electronic warfare (EW) integrated Test and Training in the Southwestern US.</li></ul>	<p><b>Drivers/Assumptions</b></p> <ul style="list-style-type: none"><li>■ Principles:</li><li>■ Transformational Options:</li><li>■ Other: Continued Services RDT&amp;E and O&amp;M Funding</li></ul>
<p><b>Justification/Impact</b></p> <ul style="list-style-type: none"><li>■ Others – EW synergy in Southwestern US<ul style="list-style-type: none"><li>• Joint National Training Capability (JNTC)<ul style="list-style-type: none"><li>– Ft Erwin, 29 Palms, and Nellis</li></ul></li></ul></li></ul>	<p><b>Potential Conflicts</b></p> <ul style="list-style-type: none"><li>■ Service leads versus location of function<ul style="list-style-type: none"><li>• Headquarters/Field Units</li><li>• Scheduling Priorities</li></ul></li></ul>



# Consolidation of Aircraft RDAT&E

Scenario	Drivers/Assumptions
<ul style="list-style-type: none"><li>■ Examine consolidating Aircraft RDAT&amp;E at a reduced number of sites<ul style="list-style-type: none"><li>• Includes fixed-wing and rotary wing</li><li>• Includes manned and unmanned</li></ul></li></ul> <h3>Justification/Impact</h3> <ul style="list-style-type: none"><li>■ Potential for significant realignments and/or closures<ul style="list-style-type: none"><li>• Wright Patterson, Edwards, Redstone, Ft Rucker, Ft Eustis, Pax River, China Lake have significant capability</li><li>• Reduce footprint and/or cost</li></ul></li><li>■ Achieve Jointness and/or Consolidated Services Integration</li></ul>	<ul style="list-style-type: none"><li>■ Principles:</li><li>■ Transformational Options:<ul style="list-style-type: none"><li>Consolidation of RDAT&amp;E functions</li></ul></li><li>■ Other: Each Services Requires Core Capabilities (aligned to their missions) in Aircraft RDAT&amp;E</li></ul> <h3>Potential Conflicts</h3> <ul style="list-style-type: none"><li>■ Headquarters Location and Acceptable Joint Management construct</li></ul>



# Consolidation of Armament RDAT&E

Scenario	Drivers/Assumptions
<p><b>Justification/Impact</b></p> <ul style="list-style-type: none"> <li>■ Potential for significant realignments and/or closures               <ul style="list-style-type: none"> <li>• Eglin, Redstone, Aberdeen, Picatinny, White Sands, China Lake, Pt Mugu, Dahlgren, Indian Head have significant capability</li> <li>• Reduce footprint and/or cost</li> </ul> </li> <li>■ Achieve Jointness and/or Consolidated Services Integration</li> </ul>	<ul style="list-style-type: none"> <li>■ Principles:</li> <li>■ Transformational Options:               <ul style="list-style-type: none"> <li>Consolidation of RDAT&amp;E functions</li> <li>Other: Each Services Requires Core Capabilities (aligned to their missions) in Armament RDAT&amp;E</li> </ul> </li> </ul> <p><b>Potential Conflicts</b></p> <ul style="list-style-type: none"> <li>■ Headquarters Location and Acceptable Joint Management construct</li> </ul>



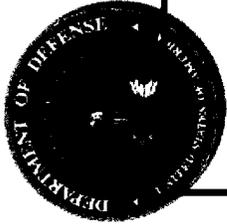
# Electronic Warfare(EW)Integrated Test & Training Consolidation

<p><b>Scenario</b></p> <ul style="list-style-type: none"><li>■ Examine consolidating electronic warfare (EW) integrated Test and Training in the Southwestern US.</li></ul>	<p><b>Drivers/Assumptions</b></p> <ul style="list-style-type: none"><li>■ Principles:</li><li>■ Transformational Options:</li><li>■ Other: Continued Services RDT&amp;E and O&amp;M Funding</li></ul>
<p><b>Justification/Impact</b></p> <ul style="list-style-type: none"><li>■ Others – EW synergy in Southwestern US<ul style="list-style-type: none"><li>• Joint National Training Capability (JNTC)<ul style="list-style-type: none"><li>– Ft Erwin, 29 Palms, and Nellis</li></ul></li></ul></li></ul>	<p><b>Potential Conflicts</b></p> <ul style="list-style-type: none"><li>■ Service leads versus location of function<ul style="list-style-type: none"><li>• Headquarters/Field Units</li><li>• Scheduling Priorities</li></ul></li></ul>



# Consolidation of Aircraft RDAT&E

Scenario	Drivers/Assumptions
<ul style="list-style-type: none"><li>■ Examine consolidating Aircraft RDAT&amp;E at a reduced number of sites<ul style="list-style-type: none"><li>• Includes fixed-wing and rotary wing</li><li>• Includes manned and unmanned</li></ul></li></ul> <h3>Justification/Impact</h3> <ul style="list-style-type: none"><li>■ Potential for significant realignments and/or closures<ul style="list-style-type: none"><li>• Wright Patterson, Edwards, Redstone, Ft Rucker, Ft Eustis, Pax River, China Lake have significant capability</li><li>• Reduce footprint and/or cost</li></ul></li><li>■ Achieve Jointness and/or Consolidated Services Integration</li></ul>	<ul style="list-style-type: none"><li>■ Principles:</li><li>■ Transformational Options:<ul style="list-style-type: none"><li>Consolidation of RDAT&amp;E functions</li></ul></li><li>■ Other: Each Services Requires Core Capabilities (aligned to their missions) in Aircraft RDAT&amp;E</li></ul> <h3>Potential Conflicts</h3> <ul style="list-style-type: none"><li>■ Headquarters Location and Acceptable Joint Management construct</li></ul>



# Consolidation of Armament RDAT&E

## Scenario

- Examine consolidating Armament RDAT&E at a reduced number of sites
  - Includes guided and unguided missiles and bombs
  - Includes guns and guided and unguided ammunition

## Drivers/Assumptions

- Principles:
  - Transformational Options:
    - Consolidation of RDAT&E functions
    - Other: Each Services Requires Core Capabilities (aligned to their missions) in Armament RDAT&E

## Justification/Impact

- Potential for significant realignments and/or closures
  - Eglin, Redstone, Aberdeen, Picatinny, White Sands, China Lake, Pt Mugu, Dahlgren, Indian Head have significant capability
  - Reduce footprint and/or cost
- Achieve Jointness and/or Consolidated Services Integration

## Potential Conflicts

- Headquarters Location and Acceptable Joint Management construct



# Joint C4ISR Development & Acquisition (D&A) Training Scenario

<p><b>Scenario</b></p> <ul style="list-style-type: none"><li>■ Establish a Jointly staffed C4ISR D&amp;A <u>Headquarters</u> in the NCR with overall budget authority</li><li>■ Realign MILDEP Technical Facilities to report to the Joint headquarters</li></ul>	<p><b>Drivers/Assumptions</b></p> <ul style="list-style-type: none"><li>■ Principles: Systems Born Joint</li><li>■ Transformational Options: N/A</li><li>■ Other: No Disruption of Warfighter Support</li></ul>
<p><b>Justification/Impact</b></p> <ul style="list-style-type: none"><li>■ Develop Joint capabilities vice MILDEP specific capabilities</li><li>■ Precludes unwarranted duplication</li><li>■ Work efforts may not be as responsive to MILDEP urgent operational needs</li></ul>	<p><b>Potential Conflicts</b></p> <ul style="list-style-type: none"><li>■ HSAJCSG Coordination Required</li></ul>



# Combined Enabling Technology Research Locations

<p style="text-align: center;"><b>Scenario</b></p> <ul style="list-style-type: none"> <li>■ <b>Enabling Technology Research Programs</b> of the Military Services &amp; Defense Agencies are planned &amp; conduct at two locations <ul style="list-style-type: none"> <li>• Includes all 6.1, much 6.2, some 6.3</li> <li>• Enabling technology defined as research within all 13 DTAPs which may be applicable to multiple weapon systems or multiple platforms</li> <li>• Physical integration of Military Service &amp; Defense Agency staff @ each location</li> <li>• No other change in Service/Defense Agency business procedures are mandated in the scenario (Joint is an optional scenario)</li> </ul> </li> </ul>	<p style="text-align: center;"><b>Drivers/Assumptions</b></p> <ul style="list-style-type: none"> <li>■ <b>Principle:</b> Defense research information readily available to all Military Services &amp; Defense Agencies at the location</li> <li>■ <b>Transformational Options:</b> Facilitates inter-Service &amp; inter-Agency sharing and application of research information</li> <li>■ <b>Other:</b> <ul style="list-style-type: none"> <li>• Applied research, highly integrated into a Service weapons system or platform, is more appropriately planned and conducted in a Military Service laboratory</li> <li>• Two sites protect against single point failure &amp; foster intellectual competition</li> </ul> </li> </ul>
<p style="text-align: center;"><b>Justification/Impact</b></p> <ul style="list-style-type: none"> <li>■ <b>Potential realignments or closures:</b> ARL, NRL, AFRL, some research functions @ Army Research, Development &amp; Engineering Centers &amp; ARO, some research functions @ Navy Warfare Centers &amp; ONR, some research functions @ AFOSR, some research functions @ Defense Agencies</li> </ul>	<p style="text-align: center;"><b>Potential Conflicts</b></p> <ul style="list-style-type: none"> <li>■ Adverse impact of separating enabling research from applied research at the existing “wide-spectrum” locations (e.g., NRL, RDECS, Warfare Centers, ARO, ONR, AFOSR, Defense Agencies)</li> </ul>

## **DECISION CRITERIA FOR CANDIDATE RECOMMENDATIONS**

**Issue # 07-30-04-05**

**Issue:** *Candidate Recommendations* will be developed from: (1) options proposed by the private sector, OSD, and the TJCSG, and (2) options generated by the Linear Optimization Model. To become candidate recommendations, all options must be systematically evaluated for effectiveness and feasibility. This paper proposes some criteria both to assist in that evaluation process and to help provide an “audit trail” to support each decision. Candidate recommendations that pass through this decision filter become, with ISG approval, scenarios for COBRA (Cost of Base Realignment Actions) analysis.

**Point of Contact:** Don DeYoung

### **Issue Summary:**

- Options generated by the Linear Optimization Model (LOM) are filtered by quantitative parameters, such as excess capacity and military value. The LOM has two advantages. The first is that a limited number of options are produced from a large universe of potential options. For example, given 10 activities, there are 175 alternatives that close 1, 2, or 3 activities.<sup>1</sup> The second advantage is that it provides an objective means by which to defend the selected set of scenarios. The disadvantage is that it does not provide “answers”, but instead serves as a decision aid.
- Transformational options are limited only by imagination, which is appropriate for an innovative endeavor. The advantage of deriving options in this manner is the potential for transformational payoff. The disadvantage lies in the difficulty we will have justifying our selected set of candidate recommendations when a much larger universe of potential options was not considered. This problem is compounded by the ISG’s (a) request for notional candidate recommendations (for which some JCSGs identified “winners” and “losers”), and (b) process for registering such recommendations beginning in early September — both of which will have occurred before the data was collected, and the excess capacity and military value of each site was calculated.
- Each option, however it is derived, can be evaluated by decision criteria grouped in two sets: those for *effectiveness* and for *feasibility*.
- Decision criteria for effectiveness are:
  - Do the components of the option possess the required workforce skill set and expertise?
  - Do the components of the option possess the required physical plant and scientific/engineering equipment?
  - Do the components of the option have an established track record of success? If not, does the gaining site have adequate technical and acquisition talent in a related technical area?
  - Do the components of the option possess an average military value equal to or greater than that of the original configuration? If not, is the decrease justifiable in military and economic terms?
  - Can the components of the option satisfy DoD required capacity (based upon their demonstrated historical peak capacity)?
  - Does the option increase or decrease synergy?
  - Does the option have the potential to increase interoperability or “jointness” of systems delivered to the warfighter?
  - Does the option increase average intellectual capital?
  - Does the option decrease unwarranted duplication, or does it diminish a needed capability?

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<sup>1</sup> DON IAT Briefing, “Proposed Optimization Methodology: Generating Alternatives.”

- Decision criteria for feasibility are:
  - Does the installation proposed for a consolidated mission have sufficient FTEs to perform the work or can sufficient FTEs be obtained from local industry or academic partners?
  - Does the installation proposed for a consolidation mission provide all of the essential physical conditions (e.g., weather, geography) essential to the conduct of the new mission element?
  - Does the installation proposed for a consolidated mission possess sufficient physical space (i.e., available square footage) and/or buildable acres to accommodate the workload? If not, is leased space an option?
- Keeping in mind the requirement “to provide a fair process”<sup>2</sup>, both the LOM-generated and transformational options must be evaluated by the same decision criteria.

**Recommendation:** Evaluate all options — LOM-generated, transformational, and any others — by the effectiveness and feasibility criteria identified above.

**Army Position:**

**AF Position:**

**Navy Position:**

**Marine Corps Position:**

**JCS Position:**

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<sup>2</sup> Public Law 101-510, as amended through the National Defense Authorization Act of Fiscal Year 2003, SEC. 2901. (b)

**ISSUE # 08-24-04-01: Subcapability identification within the current DTAP data collection framework**

**Issue:** Subcapability identification within the current DTAP data collection Framework

**Point of Contact:** Pete Cahill

**Issue Summary:**

- Issue 08-18-04-02 (Requirement For Supplementary Data Calls) addresses the issues associated with evaluating potential scenarios at the sub-DTAP level, given that the TJCSG is only obtaining data at the DTAP level.
- An additional supplementary data call is needed to provide the means to obtain maximum capacity, capacity data and MIL VAL with which to perform complete LOM analysis at the sub-DTAP level.
- That Issue Paper recommends that the TJCSG authorize a supplemental data call IAW OSD BRAC office guidance to those technical facilities identified as doing work in priority sub-DTAP scenarios
- The inability to analyze scenarios at the sub-DTAP level due to methodological problems is not acceptable.
- The best solution is to obtain Capacity and MIL VAL information for selected scenarios at the sub-DTAP level.
- Absent additional data collection, it may not be possible to parse the MIL Val of a facility (bin) that performs work in multiple sub-DTAPs
- The Budget submission provides an auditable framework to parse reported capabilities into sub-DTAP for analysis purposes.

**Recommendation(s):**

- For those potential scenarios identified by the TJCSG requiring additional data at the sub-DTAP level, TJCSG authorize a supplemental data call IAW OSD BRAC office guidance to those technical facilities identified as doing that work.
- Should a decision be made not to go out for a supplemental data call in support of a potential scenario, the sub-group must use the data it has and operate the LOM at the "bin" level for selected facility sets at the sub-DTAP level (i.e., rotocraft & fixed wing; bombs, guns, missiles, etc.). Using the Budget submit information the subgroup can determine which facilities should be included in the set. An included facility which operates in multiple sub-DTAP (e.g. fixed and rotary) will require examination of budget submit including R2 forms to determine the % of work performed in each sub-DTAP. This % will then be multiplied by the

reported DTAP Capability for that facility to determine what capability should be included in the set. The bin Mil Val will be used for the sub-DTAP in the LOM.

**Army Position:**

**AF Position:**

**Navy Position:**

**Marine Corps Position:**

**JCS Position:**

**ISSUE # 07-30-04-02: CAPACITY MEASURES for LINEAR OPTIMIZATION MODEL RUNS**

**ISSUE:** The TJCSG previously adopted a set of Linear Optimization Model (LOM) Capacity Measures for each Function (e.g., FTEs and Funding for Research) – the Off-Site group that developed the *Timeline (Best Case)* recommends FTEs be added as a Capacity Measure to the D&A and T&E Functions to facilitate cross-Function analysis.

**POINT OF CONTACT:** Matt Mleziva

**ISSUE SUMMARY:**

- The TJCSG has to approve any changes to the Capacity Measures used in the Linear Optimization Model (LOM)

**CIT RECOMMENDATION:** Add FTEs to the Capacity Measures for D&A and T&E in the LOM.

**AF Position:** Concur

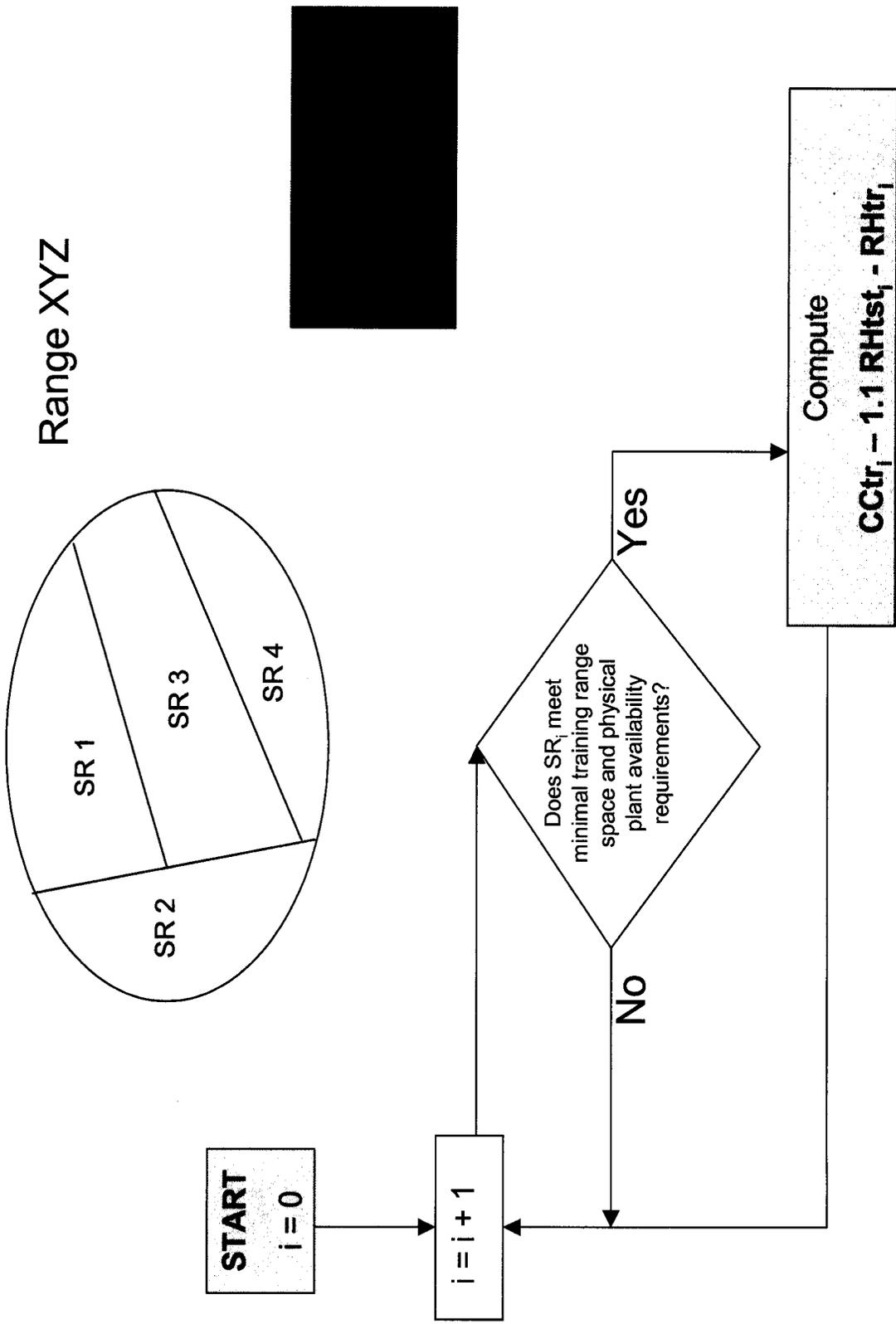
**Army Position:** Concur

**Navy Position:** Concur

**Marine Corps Position:** Concur

**JCS Position:** N/A

# Integration Formula



# T&E Capacity Definitions

- T&E capacity definitions were developed to determine Excess Capacity for conducting T&E on ranges where T&E is performed.
- In addressing the action from the 12 August E&T JCSG meeting, two approaches were considered:
  - (1) Develop a calculation for Maximum Potential Capacity (MPC), leaving other 3 terms (Current Capacity, Current Usage, Surge) defined as before;
  - (2) Use Current Capacity calculation (“peak demonstrated”) as MPC, and develop new expression for Current Capacity, adopting a “standardization” approach.
- Approach (2) was determined not to be practical.
  - Wide variety of usage. (28 Army installations reported between 1 and 35,000 test events per year ( $\mu = 3,000$ ;  $\Sigma = 7,000$ )).
  - Dependent on range capability and customer requirements.

# Maximum Potential Capacity

$$\text{MPC}_{\text{OAR}} = \sum_{\text{Sub\_Ranges}} (\text{Maximum number of simultaneous operations}) \times (\text{maximum range hours/day}) \times (\text{maximum days/year})$$

- Each OAR would have its own MPC.
  - For each distinct range operation on an OAR, the 3 terms are identified, and a value computed for that “sub-range”. These values are summed to produce an MPC for that OAR.
- Data would need to be obtained at the sub-range level
- Notional data indicate extremely high values for  $\text{MPC}_{\text{OAR}}$

# Critical Unresolved Issues (As of 24 Aug 04)

Reference Number	Issue	Issue Paper Author/Date of Submittal to CIT	Required TJCSCG Executive Action/Date of Next TJCSCG Mtg	CIT Recommendations
07-16-04-05	Scenario Conflict Adjudication	Mr. Don DeYoung	Tabled at 9 Aug 04 CIT Mtg	Army -- AF -- Navy -- Concur Marines --
07-16-04-07	Execution Model Update	Dr. Higgins/Dr. Short	Tabled at 9 Aug 04 CIT Mtg	Need CIT Recommendation

# Critical Unresolved Issues (As of 24 Aug 04)

Reference Number	Issue	Issue Paper Author/Date of Submittal to CIT	Required TJCSG Executive Action/Date of Next TJCSG Mtg	CIT Recommendations
07-30-04-02	Capacity Measures for LOM Runs	Mr. Mleziva	Needs TJCSG Approval	Army – Concur AF – Concur Navy – Concur Marines – Concur
07-30-04-05	Decision Criteria for Scenario Options	Mr. Don DeYoung	Needs CIT Recommendation	Army – AF – Navy – Concur Marines –
07-30-04-06	BRAC Scenario Coordination Among JCSGs and Military Departments	COL Walt Hamm	Needs CIT Recommendation	Army – AF – Navy – Marines – Concur

# Critical Unresolved Issues (As of 24 Aug 04)

Reference Number	Issue	Issue Paper Author/Date of Submittal to CIT	Required TJCSG Executive Action/Date of Next TJCSG Mtg	CIT Recommendations
08-17-04-01	Rules for Scenario Options	Mr. Shaffer	Need CIT Recommendation	Army – AF – Navy – Marines –
08-18-04-01	TJCSG Schedule Adjustment	COL Buckstad	Need TJCSG Approval	Army – Concur AF – Concur Navy – Concur Marines – Concur
08-18-04-02	LOM Scenario Data Call	Mr. Mathes	Needs CIT Recommendation	Army – Concur AF – Navy – Marines –

# Critical Unresolved Issues (As of 24 Aug 04)

Reference Number	Issue	Issue Paper Author/Date of Submittal to CIT	Required TJCSCG Executive Action/Date of Next TJCSCG Mtg	CIT Recommendations
08-23-04-01	ACAT #	Mr. Ryan	Need CIT Recommendation	Army -- AF -- Navy -- Concur Marines --
08-24-04-01	Sub-capability Identification	Mr. Cahill	Need CIT Recommendation	Army -- Concur AF -- Navy -- Marines --