

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | | | | | | | | DATE February, 1995 | |
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| BUDGET ACTIVITY 4 - Demonstration And Validation | | | PE NUMBER AND TITLE 0603617F Cmd Control & Comm Applics | | | | | | | |
| COST (In Thousands) | FY 1994 Actual | FY 1995 Estimate | FY 1996 Estimate | FY 1997 Estimate | FY 1998 Estimate | FY 1999 Estimate | FY 2000 Estimate | FY 2001 Estimate | Cost to Complete | Total Cost |
| Total Program Element (PE) Cost | 9,107 | 5,218 | 6,437 | 7,902 | 8,202 | 8,550 | 8,805 | 9,067 | Continuing | TBD |
| 2314 Tactical Air Surveillance | 573 | 935 | 1,039 | 1,108 | 836 | 482 | 496 | 510 | Continuing | TBD |
| 2317 Tactical Air Information Production & Distribution | 3,541 | 1,143 | 1,581 | 3,912 | 2,938 | 3,339 | 3,439 | 3,542 | Continuing | TBD |
| 2321 Tactical Battle Information Management | 4,802 | 2,901 | 3,533 | 2,603 | 4,055 | 4,353 | 4,483 | 4,616 | Continuing | TBD |
| 3804 Tactical Air Forces Systems Integration | 191 | 239 | 284 | 279 | 373 | 376 | 387 | 399 | Continuing | TBD |
| <p>(U) A. Mission Description and Budget Item Justification : Rapidly transitions development in the Science and Technology base to existing C3 programs or directly to warfighting commands. Projects are directly responsive to operational requirements for improved battle management, communications, theater missile defense, and surveillance capability. Takes advantage of advanced technology developments throughout the services and industry as well as off-the-shelf technology. This research is in Category, Demonstration and Validation. Its products are primarily advanced development models, rapid prototype efforts, and software developed through evolutionary acquisition methods. Program also defines system architectures and develops communications technology for modernization and improving the Air Force portion of the Tri-Service communications networks which the Defense Information Systems Agency (DISA) oversees. Beginning in FY 1994, the Tactical Air Information Production and Distribution project has included funding and tasks from PE 0303126F, Long Haul Communications, including the Secure Survivable Communications Network (SSCN).</p> | | | | | | | | | | |
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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2) | | | | | DATE February, 1995 |
| 4 - Demonstration And Validation | | | 0603617F Cmd Control & Comm Applies | | |
| (U) B. Program Change Summary (\$ in Thousands) | | | | | |
| | <u>FY 1994</u> | <u>FY 1995</u> | <u>FY 1996</u> | <u>FY 1997</u> | <u>Total Cost</u> |
| (U) Previous President's Budget | 9,395 | 5,402 | 6,469 | 7,942 | Continuing |
| (U) Appropriated Value | 9,395 | | | | |
| (U) Adjustments to Appropriated Value | | | | | |
| a. General Congressional Deductions | (126) | (93) | | | |
| b. BTR | (33) | | | | |
| c. SBIR | | (91) | | | |
| (U) Adjustments to Budget Years Since FY95 PB | | | (32) | (40) | |
| (U) Current Budget Submit/President's Budget | 9,107 | 5,218 | 6,437 | 7,902 | Continuing |
| (U) Change Summary Explanation: | | | | | |
| Funding: N/A | | | | | |
| Schedule: N/A | | | | | |
| Technical: N/A | | | | | |
| (U) C. Other Program Funding Summary (\$ in Thousands) See individual projects. | | | | | |
| Related RDT&E: See individual projects. | | | | | |
| (U) D. Schedule Profile See individual projects. | | | | | |

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| BUDGET ACTIVITY 4 - Demonstration And Validation | | | | PE NUMBER AND TITLE 0603617F Cmd Control & Comm Applics | | | | | PROJECT 2314 | |
| COST (In Thousands) | FY 1994 Actual | FY 1995 Estimate | FY 1996 Estimate | FY 1997 Estimate | FY 1998 Estimate | FY 1999 Estimate | FY 2000 Estimate | FY 2001 Estimate | Cost to Complete | Total Cost |
| 2314 Tactical Air Surveillance | 573 | 935 | 1,039 | 1,108 | 836 | 482 | 496 | 510 | Continuing | TBD |
| <p>(U) A. <u>Mission Description and Budget Item Justification</u> Develops advanced technology and demonstrates equipment improvements to the Theater Air Control System (TACS) ground surveillance radars. Investigates non-radar and/or adjunct radar sensors to address the Combat Air Forces (CAF) surveillance, detection, and tracking requirements not satisfied by an active radar.</p> <p>(U) <u>FY 1994</u></p> <ul style="list-style-type: none"> - (U) Initiated multiple Sidelobe Canceller/Mainlobe Noise Canceller (MSLC/MNC) development/demonstration for AN/TPS-75 radar (\$395). - (U) Initiated solid state transmitter panel performance and reliability and maintainability (R&M) testing (\$178). <p>(U) <u>FY 1995</u></p> <ul style="list-style-type: none"> - (U) Assess near-term availability of solid state high power devices for the AN/TPS-75 Solid State Transmitter (\$50). - (U) Complete MSLC/MNC development (\$560). - (U) Complete solid state transmitter panel performance and R&M testing (\$125). - (U) Initiate design for distributed tube based transmitter for AN/TPS-75, and build one transmit panel (\$200). <p>(U) <u>FY 1996</u></p> <ul style="list-style-type: none"> - (U) Continue development of tube based transmitter panel for AN/TPS-75 (\$900). - (U) Develop specification for design/waveform signal processor (\$139). <p>(U) <u>FY 1997</u></p> <ul style="list-style-type: none"> - (U) Complete tube based transmitter panel for AN/TPS-75 (\$208). - (U) Initiate tube based transmitter panel performance evaluation (\$200). - (U) Initiate waveform and signal processor impact evaluation (\$600). - (U) Analyze solid state versus tube based transmitter (\$100). | | | | | | | | | | |
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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2) | | | | DATE February, 1995 | |
| Exhibit ACTIVITY 4 - Demonstration And Validation | PE NUMBER AND TITLE 0603617F Cmd Control & Comm Applies | | | PROJECT 2314 | |
| (U) B. <u>Program Change Summary (\$ in Thousands)</u> | | | | | |
| | <u>FY 1994</u> | <u>FY 1995</u> | <u>FY 1996</u> | <u>FY 1997</u> | Total <u>Cost</u> |
| (U) Previous President's Budget | 576 | 951 | 1,044 | 1,114 | Continuing |
| (U) Appropriated Value | 576 | | | | |
| (U) Adjustments to Appropriated Value | | | | | |
| a. General Congressional Reductions | | | | | |
| b. SBIR | (3) | (16) | | | |
| (U) Adjustments to Budget Years since FY95 PB | | | (5) | (6) | |
| (U) Current Budget Submit/President's Budget | 573 | 935 | 1,039 | 1,108 | Continuing |
| (U) Change Summary Explanation: | | | | | |
| Funding: See explanation, page 2 | | | | | |
| Schedule: Tube Based Development efforts combined into one contractual vehicle; causing contract award delay of 2 quarters. | | | | | |
| Technical: N/A | | | | | |
| (U) C. <u>Other Program Funding Summary (\$ in Thousands): N/A</u> | | | | | |
| <u>Related Activities:</u> | | | | | |
| (U) PE 0602702F, Command, Control, and Communications | | | | | |
| (U) PE 0603789F, C3I Advanced Development | | | | | |
| (U) PE 0207412F, Tactical Air Control System Improvements | | | | | |
| (U) PE 0603260F, Intelligence Advanced Development | | | | | |
| (U) PE 0208010F, Joint Tactical Communications | | | | | |
| (U) PE 0207438F, Theater Battle Management C4I | | | | | |
| (U) There is no unnecessary duplication of effort within the Air Force or the Department of Defense. | | | | | |

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| EXHIBIT 4 - Demonstration And Validation | | | | | PE NUMBER AND TITLE 0603617F Cmd Control & Comm Applies | | | | | PROJECT 2314 | | | | | | |
| (U) D. <u>Schedule Profile</u> | | | | | | | | | | | | | | | | |
| | | <u>FY 1994</u> | | | | <u>FY 1995</u> | | | | <u>FY 1996</u> | | | | <u>FY 1997</u> | | |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| (U) Multiple Sidelobe Cancellor/ Mainlobe Noise Cancellor development and demonstration | | | X* | | | | | X** | | | | | | | | |
| (U) Solid state transmitter panel performance and R&M testing | X* | | | | | | | X** | | | | | | | | |
| (U) Initiate tube based developments | | | | | | | X* | | | | | | | | | |
| (U) Initiate tube based versus solid state eval | | | | | | | | | | | | | | | | X* |

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| BUDGET ACTIVITY 4 - Demonstration And Validation | | | | PE NUMBER AND TITLE 0603617F Cmd Control & Comm Applics | | | | | PROJECT 2317 | |
| COST (In Thousands) | FY 1994 Actual | FY 1995 Estimate | FY 1996 Estimate | FY 1997 Estimate | FY 1998 Estimate | FY 1999 Estimate | FY 2000 Estimate | FY 2001 Estimate | Cost to Complete | Total Cost |
| 2317 Tactical Air Information Production & Distribution | 3,541 | 1,143 | 1,581 | 3,912 | 2,938 | 3,339 | 3,439 | 3,542 | Continuing | TBD |
| <p>(U) A. <u>Mission Description and Budget Item Justification:</u> Transitions advanced communications to the Theater Deployable Communications (TDC) program in support of Theater Battle Management (TBM) command and control enhancements. Capabilities include Multi-Level Security (MLS), survivability, deployability, interoperability, and control for communications networks ranging from base communications to the global Defense Information System Network (DISN). Project includes funding and tasks consolidated from PE 0303126F, Long Haul Communications, beginning in FY94.</p> <p>(U) <u>FY 1994</u></p> <ul style="list-style-type: none"> - (U) Initiated roadmap to transition networking technologies into AF needs in Theater Deployable Communications (TDC) (\$105). - (U) Continued development of the Secure Survivable Communications Network (SSCN) (\$1,800). - (U) Installed SSCN node at Langley AFB and integrate it into a joint demonstration (\$287). - (U) Continued development of the International Policy Gateway (\$187). - (U) Completed modeling and simulation for congestion control (\$62). - (U) Continued cooperative intelligent system for communications management (\$100). - (U) Completed TBM system integration simulation capability (\$1,000). <p>(U) <u>FY 1995</u></p> <ul style="list-style-type: none"> - (U) Complete SSCN development and prepare for joint demonstration (\$574). - (U) Complete cooperative intelligent system for communications management and transition to networking (\$122). - (U) Initiate SSCN Phase II for fielding and complete transition plan into Theater Deployable Comm Program (\$447). <p>(U) <u>FY 1996</u></p> <ul style="list-style-type: none"> - (U) Continue SSCN Phase II (\$1,581). <p>(U) <u>FY 1997</u></p> <ul style="list-style-type: none"> - (U) Complete SSCN Phase II (\$3,394). - (U) Prepare for joint demonstration (\$518). | | | | | | | | | | |
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| EXHIBITIVITY | PE NUMBER AND TITLE | | | | PROJECT |
| 4 - Demonstration And Validation | 0603617F Cmd Control & Comm Applics | | | | 2317 |
| (U) B. Program Change Summary (\$ in Thousands) | | | | | |
| | <u>FY 1994</u> | <u>FY 1995</u> | <u>FY 1996</u> | <u>FY 1997</u> | Total Cost |
| (U) Previous President's Budget | 4,505 | 1,174 | 2,089 | 4,932 | Continuing |
| (U) Appropriated Value | 4,505 | 1,174 | | | |
| (U) Adjustments to Appropriated Value | | | | | |
| a. General Congressional Reductions | (62) | (11) | | | |
| b. Below Threshold Reprogramming | (902) | | | | |
| c. SBIR | | (20) | | | |
| (U) Adjustments to Budget Years Since FY95 PB | | | (508) | (920) | |
| (U) Current Budget Submit/President's Budget | 3,541 | 1,143 | 1,581 | 3,912 | Continuing |
| (U) Change Summary Explanation: | | | | | |
| Funding: Required adjustments resulting from contractual negotiation and actions. | | | | | |
| Schedule: N/A | | | | | |
| Technical: N/A | | | | | |
| (U) C. Other Program Funding Summary (\$ in Thousands): N/A | | | | | |
| Related Activities: See Project 2314 | | | | | |

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| EXHIBIT 4 - Demonstration And Validation | | | | | PE NUMBER AND TITLE 0603617F Cmd Control & Comm Applies | | | | | PROJECT 2317 | | | | | | |
| (U) D. <u>Schedule Profile</u> | | | | | | | | | | | | | | | | |
| | FY 1994 | | | | FY 1995 | | | | FY 1996 | | | | FY 1997 | | | |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| (U) Secure Survivable Comm Net Phase I | | | | | | | | | | | | | | | | |
| Transition Plan Development | | X* | | | | X** | | | | | | | | | | |
| Joint Demo (On-going) | | | X* | | | | X** | | | | | | | | | |
| (U) International Policy Gateway | | | | | | | X** | | | | | | | | | |
| (U) M&S for Congestion Control | | | | X** | | | | | | | | | | | | |
| (U) Cooperative Intel System for Mgt | | | | | | | | X** | | | | | | | | |
| (U) Secure Survivable Comm Net Phase II | | | | | | | | | | | | | | | | |
| Transition Plan Development | | | | | | X* | X** | | | | | | | X** | | |
| Joint Demo | | | | | | | X* | | | | | | | | | X* |

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| BUDGET ACTIVITY 4 - Demonstration And Validation | | | PE NUMBER AND TITLE 0603617F Cmd Control & Comm Applies | | | | | | PROJECT 2321 | |
| COST (In Thousands) | FY 1994 Actual | FY 1995 Estimate | FY 1996 Estimate | FY 1997 Estimate | FY 1998 Estimate | FY 1999 Estimate | FY 2000 Estimate | FY 2001 Estimate | Cost to Complete | Total Cost |
| 2321 Tactical Battle Information Management | 4,802 | 2,901 | 3,533 | 2,603 | 4,055 | 4,353 | 4,483 | 4,616 | Continuing | TBD |
| <p>(U) A. Mission Description and Budget Item Justification: Field automated decision support systems for the Air Operations Center (AOC). Initial capability was the Advanced Planning System (APS) decision aid. APS supplies combat planners with an automated capability to pull together the information on resources, weaponeering options, and the current battle situation that will reduce time to generate the Air Tasking Order (ATO) by a factor of ten. Current development focus is the Force Level Execution (FLEX) system in support of the Combat Operations Division of the AOC. FLEX will provide automated execution management and control of operations.</p> <p>(U) <u>FY 1994</u></p> <ul style="list-style-type: none"> - (U) Complete verification and validation of APS software (\$188). - (U) Initiate development of Force Level Execution (FLEX) automation for the Combat Operations Division of the Air Operations Center (AOC)(\$2,475). - (U) Continue Theater Missile Defense prototyping (\$1,945). - (U) Initiate Theater Battle Management (TBM) systems integration evaluations (\$194). <p>(U) <u>FY 1995</u></p> <ul style="list-style-type: none"> - (U) Continue FLEX development (\$2,444). - (U) Transition Theater Missile Defense prototyping (\$0). - (U) Continue TBM systems integration evaluations (\$242). - (U) Initiate planning for Operations-Intelligence integration development (\$215). <p>(U) <u>FY 1996</u></p> <ul style="list-style-type: none"> - (U) Continue FLEX development (\$2,967). - (U) Initiate Operations-Intelligence integration development (\$300). - (U) Continue TBM systems integration evaluations (\$266). <p>(U) <u>FY 1997</u></p> <ul style="list-style-type: none"> - (U) Complete FLEX development and initiate integration into CTAPS (\$256). - (U) Continue Operations-Intelligence integration development (\$2,138). - (U) Continue TBM systems integration evaluations (\$209). | | | | | | | | | | |
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| Exhibit ACTIVITY 4 - Demonstration And Validation | | PE NUMBER AND TITLE 0603617F Cmd Control & Comm Applics | | | PROJECT 2321 |
| (U) B. Program Change Summary (\$ in Thousands) | | | | | |
| | <u>FY 1994</u> | <u>FY 1995</u> | <u>FY 1996</u> | <u>FY 1997</u> | Total Cost |
| (U) Previous President's Budget | 4,122 | 2,992 | 3,051 | 1,716 | Continuing |
| (U) Appropriated Value | 4,122 | 2,992 | | | |
| (U) Adjustments to Appropriated Value | | | | | |
| a. Generic Congressional Reductions | (60) | (41) | | | |
| b. BTR | 869 | | | | |
| c. SBIR | (129) | (50) | | | |
| (U) Adjustments to Budget Years Since FY95 PB | | | 482 | 887 | |
| (U) Current Budget Submit/President's Budget | 4,802 | 2,901 | 3,533 | 2,603 | Continuing |
| (U) Change Summary Explanation: | | | | | |
| Funding: Required adjustments resulting from final contractual negotiations and adjustments. | | | | | |
| Schedule: N/A | | | | | |
| Technical: N/A | | | | | |
| (U) C. Other Program Funding Summary (\$ in Thousands): N/A | | | | | |
| <u>Related Activities:</u> See Project 2314 | | | | | |

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| EXHIBIT 4 - Demonstration And Validation | | | | | PE NUMBER AND TITLE 0603617F Cmd Control & Comm Applics | | | | | PROJECT 2321 | | | | | | | | | |
| (U) D. <u>Schedule Profile</u> | | | | | | | | | | | | | | | | | | | |
| | | <u>FY 1994</u> | | | | | <u>FY 1995</u> | | | | | <u>FY 1996</u> | | | | | <u>FY 1997</u> | | |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | |
| (U) APS Verification & Validation | | X** | | | | | | | | | | | | | | | | | |
| (U) FLEX Development | | | X* | | | | | | | | | | | X** | | | | | |
| (U) TBM Systems Integration Evaluations | | | X* | | | | | | | | | | | | | | | | |
| (U) OPS-INTEL Integration Development | | | | | | | | | | | | | | | | | | | |
| Advanced Technology Transition Development | | | | | | X* | X** | | | X* | | | | | | | | | |

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| BUDGET ACTIVITY 4 - Demonstration And Validation | | | | PE NUMBER AND TITLE 0603617F Cmd Control & Comm Applics | | | | | PROJECT 3804 | |
| COST (In Thousands) | FY 1994 Actual | FY 1995 Estimate | FY 1996 Estimate | FY 1997 Estimate | FY 1998 Estimate | FY 1999 Estimate | FY 2000 Estimate | FY 2001 Estimate | Cost to Complete | Total Cost |
| 3804 Tactical Air Forces Systems Integration | 191 | 239 | 284 | 279 | 373 | 376 | 387 | 399 | Continuing | TBD |
| <p>(U) A. Mission Description and Budget Item Justification: Project provides systems engineering and integration support to the Combat Air Forces (CAF). Project addresses integration and interoperability issues associated with TBM General Officers Steering Group (GOSG) directed efforts, makes recommendations, identifies deficiencies, or establishes requirements for development efforts. No capability is fielded. Project transitions products either to the CAF or to the development efforts.</p> <p>(U) <u>FY 1994</u></p> <ul style="list-style-type: none"> - (U) Continued analysis of TBM core systems theater integration (\$90). - (U) Expanded analysis of operations/intelligence interface to include issues of joint operations (\$101). <p>(U) <u>FY 1995</u></p> <ul style="list-style-type: none"> - (U) Continue support of TBM Core Systems integration (\$120). - (U) Complete operations/intelligence interface analysis and expand to Defensive Planning functions (\$54). - (U) Expand TBM force level system prototype evaluations to joint arena (\$65). <p>(U) <u>FY 1996</u></p> <ul style="list-style-type: none"> - (U) Continue support of TBM core systems integration (\$120). - (U) Complete analysis of Defensive Planning and expand to Management of Aggregated Sensors (\$64). - (U) Continue evaluation of Force Level joint interoperability issues (\$100). <p>(U) <u>FY 1997</u></p> <ul style="list-style-type: none"> - (U) Prepare for AOC Defensive Planning Development (\$119). - (U) Complete Sensor Management analysis (\$160). | | | | | | | | | | |
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| EXHIBITIVITY | PE NUMBER AND TITLE | | | PROJECT | |
| 4 - Demonstration And Validation | 0603617F Cmd Control & Comm Applics | | | 3804 | |
| (U) B. Program Change Summary (\$ in Thousands) | | | | | |
| | <u>FY 1994</u> | <u>FY 1995</u> | <u>FY 1996</u> | <u>FY 1997</u> | Total Cost |
| (U) Previous President's Budget | 192 | 285 | 285 | 280 | Continuing |
| (U) Appropriated Value | 192 | 285 | | | |
| (U) Adjustments to Appropriated Value | | | | | |
| a. General Congressional Reductions | (1) | (41) | | | |
| b. SBIR | | (5) | | | |
| (U) Adjustments to Budget Years Since FY95 PB | | | (1) | (1) | |
| (U) Current Budget Submit/President's Budget | 191 | 239 | 284 | 279 | Continuing |
| (U) Change Summary Explanation: | | | | | |
| Funding: N/A | | | | | |
| Schedule: N/A | | | | | |
| Technical: N/A | | | | | |
| (U) C. Other Program Funding Summary (\$ in Thousands): N/A | | | | | |
| <u>Related Activities:</u> See Project 2314 | | | | | |

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| EXHIBIT 4 - Demonstration And Validation | | | | | PE NUMBER AND TITLE 0603617F Cmd Control & Comm Applies | | | | | PROJECT 3804 | | | | | | |
| (U) D. <u>Schedule Profile</u> | | | | | | | | | | | | | | | | |
| | <u>FY 1994</u> | | | | <u>FY 1995</u> | | | | <u>FY 1996</u> | | | | <u>FY 1997</u> | | | |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| (U) Analysis of TBM Core Systems theater integration | X | | | | X | | | | X | | | | X | | | |
| (U) Ops-Intel Integration Technology Analysis | | | | | | | | | | | | | | | | |
| Interfaces | X* | | | X** | | | | | | | | | | | | |
| Joint Operations | X* | | | X** | | | | | | | | | | | | |
| (U) Defensive Planning | | | | | | | | | | | | | | | | |
| Analysis | | | | X* | | | | X** | | | | | | | | |
| Develop Plan | | | | | | | | | X* | | | | X** | | | |
| (U) Sensor Management | | | | | | | | | | | | | | | | |
| Analysis | | | | | | | | X* | | | | | X** | | | |
| Develop Plan | | | | | | | | | | | | | | X* | | |
| (U) TBM Force Level System prototype evals | | | | | | | | | | | | | | | | |
| AOC Combat Operations | X* | | | | | | | | | | | | X** | | | |
| Joint Operations | | | | | X* | | | | | | | | X** | | | |
| : | | | | | | | | | | | | | | | | |