TRANSITION TOPIC: Review of Acquisition Program Costs

TASK: Review historical data on cost growth in Major Defense Acquisition Programs (MDAPs) and look for trends that might explain the source of this growth. Recommend best practices and management tools that could help alert the Department’s senior leadership to potential program cost growth and that could help contain otherwise avoidable cost growth.

TASK GROUP:

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ISSUE:

- Total acquisition budget for all Major Defense Acquisition Programs has more than doubled in the past seven years – from $783B to $1,702B
  - 44% of that growth ($401B) caused by program cost growth
  - 36% of that growth ($328B) caused by changes to program baselines
  - Rising program costs increases unit costs – Augustine’s Curve, limiting ability to recapitalize the force

IMPORTANCE:

- Acquisition program cost overruns consume money that otherwise could be used to increase quality/quantities of systems warfighters need now and in the future
- The Secretary of Defense will need all available resources invested as effectively as possible in order to maintain operational readiness
- It is as much a cultural problem as a management issue, and in times of budget stress, could threaten the core of the institution.
- Thus only the Secretary’s personal involvement can reverse this trend, he can not delegate it to the Deputy or the AT&L
Recent buildup is characterized by fewer new programs, increases in existing baseline budgets, and increases in engineering and estimating costs.

* Figures reflect Compound Annual Growth Rates (CAGRs)
** Includes all changes between a program’s initial ‘baseline estimate’ and its current ‘baseline estimate’ (as of 2Q 2007 SAR);
BMDS engineering cost changes were reclassified as ‘baseline changes’ due to unique program budgeting process.

Source: OUSD(C) Study, DoD Selected Acquisition Reports, 1978 – 2007 (2nd Quarter)

Numbers may not add due to rounding
(Dollars in Billions)

Total acquisition budget for all Major Defense Acquisition Programs (MDAP) more than doubled from $782.5B to $1,702.0B in the past 6+ years.

MDAP Budget Growth 2000-2007(Q2)

* Includes all changes between a program's initial 'baseline estimate' and its current 'baseline estimate' (as of 2Q 2007 Service Acquisition Reports (SAR)); BMDS engineering cost changes were reclassified as 'baseline changes' due to unique program budgeting process.

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2000 – 2007 Major Defense Acquisition Program Portfolio Cost Growth by Category

(Dollars in Billions)

Managed Costs

Estimating, engineering, schedule changes equal 84% of program cost increases

$401B in Overall Program Cost Growth

A reduction in quantities is often used to offset the increase in cost

Source: DoD Selected Acquisition Reports, 2000 – 2007 (2nd Quarter)

Numbers may not add due to rounding
2000 - 2007 Major Defense Acquisition Program Portfolio
Cost Growth by Program

(Dollars in Billions)

Cost growth in Only Five Programs accounted for $206B or 51% of the total

Program Cost Growth $401B
Baseline Changes* $328B
New Programs $190B

- Future Combat Systems $69.7
- Joint Strike Fighter (F-35) $66.8
- SSN 774 Attack Submarine $27.3
- Chemical Demilitarization** $23.4
- Evolved Expendable Launch Vehicle (EELV) $18.5
- 91 Additional MDAPs ($195B) including:
  - C-17A ($17.6B)
  - EFV ($7.2B)
  - DDG 51 ($6.9B)
  - C-5 RERP ($6.4B)
  - SBIRS ($5.8B)

Source: DoD Selected Acquisition Reports, 2000 – 2007 (2nd Quarter)

* Includes all changes between a program’s initial ‘baseline estimate’ and its current ‘baseline estimate’ (as of 2Q 2007 SAR);
** BMDS engineering cost changes were reclassified as ‘baseline changes’ due to unique program budgeting process;
** Combines 3 Chemical Demilitarization programs into 1 to match earlier SARs

Numbers may not add due to rounding

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DISCUSSION:

• The total acquisition budget for all Major Defense Acquisition Programs (MDAP) has more than doubled in the past seven years (from $783B to $1,702B)

• Of the approximately $919B in increased portfolio budget from 2000 – 2007, nearly half ($401B) is for program cost growth over the baseline. The other half is for new programs or baseline changes (any change between a program’s initial baseline estimate and its current or final baseline estimate)

• Estimating, engineering, and schedule changes are responsible for over 80% of the cost growth from 2000 to 2007

• The true nature of associated cost growth is lost once re-baselining decisions occur, managerial insight is lost

• Five programs accounted for over 50% of the program cost growth over the baseline – Future Combat System (Army), Joint Strike Fighter (Navy / AF), SSN 774 (Navy), Chemical Demilitarization (Army), and Evolved Expendable Launch Vehicle (EELV)
DISCUSSION:

- This is not just an acquisition problem – the requirements, budget and acquisition processes are all drivers

- Fundamental to this problem is an atrophy of the acquisition workforce (skills, numbers, capabilities)
RECOMMENDATIONS

1. The Secretary must work with AT&L and the Service Secretaries to drive a targeted reversal of this trend which addresses the previously listed key drivers of program baseline changes and program cost growth
   a) Maintain metrics for each re-baselining decision to track/monitor drivers of growth
   b) Focus on fundamental drivers not on “fixing” symptoms, including the human capital issues
   c) Set and then propagate the cultural change necessary to reverse behavior
   d) Establish non negotiable objectives and supporting metrics; hold the leadership accountable for achieving them

2. Hold industry executives accountable to the same objectives and supporting metrics as DoD
   a) Initiate dialogue with industry independent of the requirements process to minimize future program baseline and estimate changes

3. Develop joint management tools to fix and manage the authority, responsibility, incentives and accountability across the relevant parts of DoD and industry