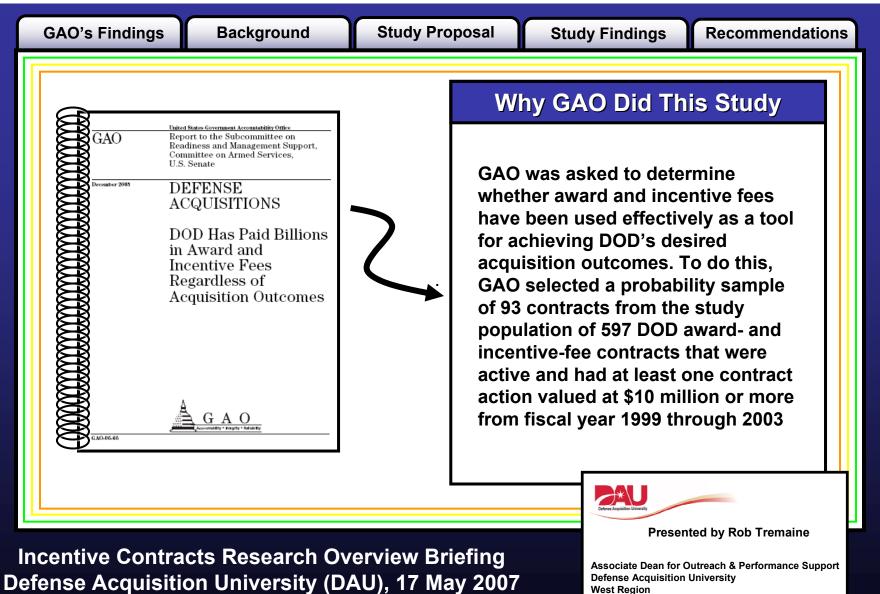


Award and Incentive Fee Contracts



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The PROBLEM: GAO Found Award/Incentive Fee Generally Ineffective

	United States Government Accountability Office
GAO	Report to the Subcommittee on Readiness and Management Support,
	Committee on Armed Services, U.S. Senate
December 2005	DEFENSE
	ACQUISITIONS
	DOD Has Paid Billions
	in Award and
	Incentive Fees
	Regardless of
	Acquisition Outcomes
	ACAO
	Accordability bringsty - Fieldability
GAO-06-66	

What GAO Found

The power of monetary incentives to motivate excellent contractor performance and improve acquisition outcomes is diluted by the way DOD structures and implements incentives. While there were two examples in our sample in which the Missile Defense Agency attempted to link award fees directly to desired acquisition outcomes, such as demonstrating a capability within an established schedule, award fees are generally not linked to acquisition outcomes. As a result, DOD has paid out an estimated \$8 billion in award fees to date on the contracts in our study population, regardless of outcomes. The following selected programs show this disconnect.

Program Performance and Award-Fee Payments on Selected DOD Development Programs										
	Comanche	F/A-22 Raptor	Joint Strike	Space-Based						
	reconnaissance	tactical fighter	Fighter tactical	Infrared						
Acquisition outcomes	attack helicopter	aircraft	fighter aircraft	System High						
Research and	\$3.7 billion	\$10.2 billion	\$10.1 billion	\$3.7 billion						
development cost	41.2 percent	47.3 percent	30.1 percent	99.5 percent						
increase over baseline										
Acquisition cycle time	33 months	27 months	11 months	More than 12						
increase over baseline	14.8 percent	13.3 percent	5.9 percent	months						
Percentage and total	85 percent	91 percent	100 percent	74 percent						
award fee paid to prime	\$202.5 million	\$848.7 million	\$494.0 million	\$160.4 million						
systems contractor	paid through 2004									
(adjusted for rollover) a										

Sources: DOD submissions to GAO, contract documentation, and GAO-05-301 (data); GAO (analysis).

^aWhen calculating the percentage of award fee paid (i.e., percentage of award fee paid = total fee paid to date / (total fee pool – remaining fee pool)), we included rolled-over fees in the remaining fee pool when those fees were still available to be earned in future evaluation periods.

Despite paying billions in fees, DOD has little evidence to support its belief that these fees improve contractor performance and acquisition outcomes. The department has not compiled data, conducted analyses, or developed performance measures to evaluate the effectiveness of award and incentive fees. In addition, when contracts have utilized different fee strategies to focus the contractor's attention on specific acquisition outcomes,

contracting officials have stated that DOD has few mechanisms to share lessons learned and innovative practices outside the local level.

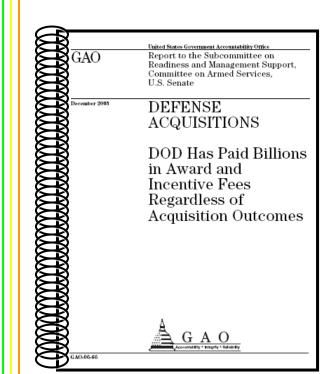
What GAO Recommends

GAO recommends that DOD improve its use of fees by specifically tying them to acquisition outcomes in all new award- and incentive-fee contracts, maximizing contractors' motivation to perform, and collecting data to evaluate the effectiveness of fees. In its comments on a draft of this report, DOD concurred or partially concurred with all of the recommendations.



Award and Incentive Fee Contracts

Background





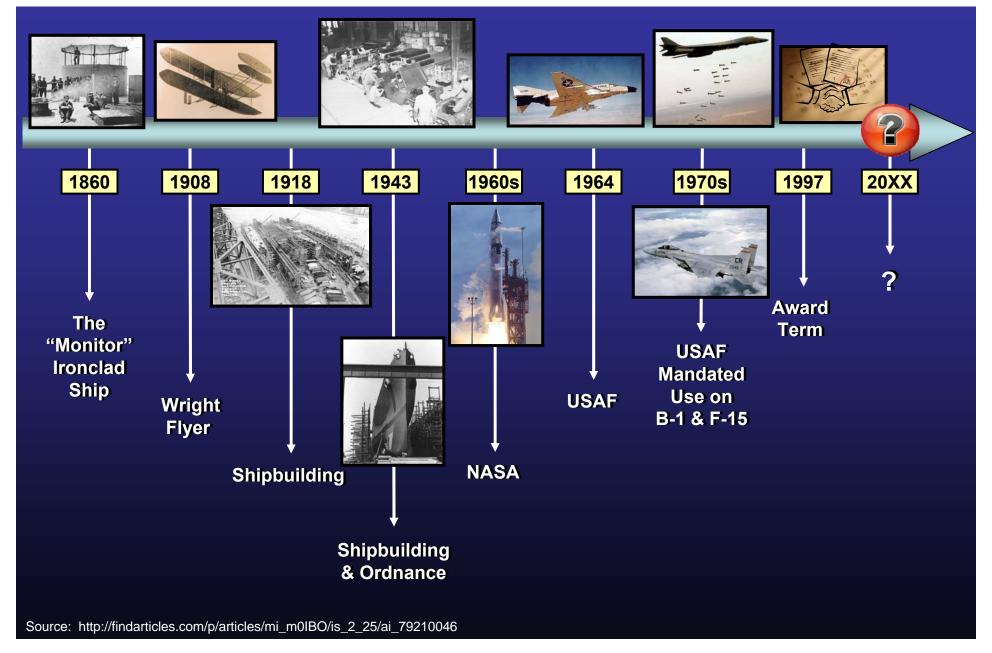
Why GAO Did This Study

GAO was asked to determine whether award and incentive fees have been used effectively as a tool for achieving DOD's desired acquisition outcomes. To do this, GAO selected a probability sample of 93 contracts from the study population of 597 DOD award- and incentive-fee contracts that were active and had at least one contract action valued at \$10 million or more from fiscal year 1999 through 2003

Incentive Contracts Research Overview Briefing Defense Acquisition University (DAU), 17 May 2007



Incentive Contracts Have Been Used in Various Forms for Some Time



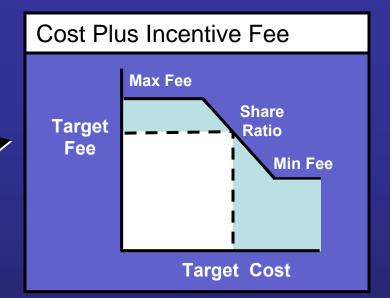


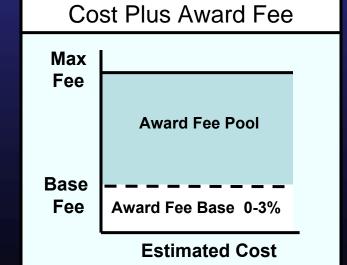
Simplified View of Incentive Contracts

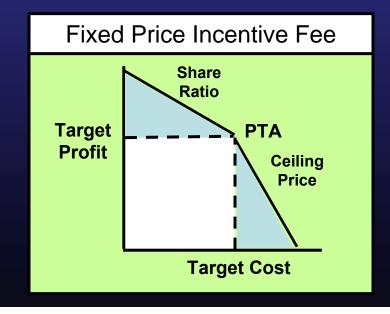
INCENTIVE CONTRACTS

(FAR 16.401)

- Designed to obtain <u>specific</u> <u>acquisition</u> <u>objectives</u>
- Establishes reasonable and attainable targets that are <u>clearly</u> communicated
- Includes appropriate incentive arrangements designed to:
 - <u>Motivate</u> contractor efforts that might not otherwise be emphasized
 - <u>Discourage</u> contractor inefficiency and <u>waste</u>









Incentive Contracts: A Sampling of Recent Assessments and Guidance



Army (ACA) Award Fee Board Member Guide (September 2003)



Army (ACA) Award Fee Contracts Guide (September 2003)

Air Force (AFMC) Award Fee & Award Term Guide, Dec 2002



Army (ACA) Cost & Price Analysis Handbook, February 2004

Air Force (Secretary of the Air Force) Contract Incentives Policy 06A-003 - April 04, 2006



Army (U.S. Army Audit Agency) - Best Practices for Using Award Fees, Audit Report AA 01-169, February 2001

Air Force Award Fee Guide - March 2002



2001 Incentive Strategies for Defense Acquisitions Guide



DCAA Contract Audit Manual, March 2006



OUSD Award Fee Contracts (FAR 16, DFARS 215, DFARS 216) Policy Memo, March 29, 2006



DFARS SUBPART 216.4--INCENTIVE CONTRACTS (Revised March 21, 2006)



2006 Secretary of the Air Force for Acquisition Directorate (SAF/AQX) Contract Incentives Study



USAID Guidance for Award Fee Contracting



Air Force Space Command's Space & Missile Center (SMC) 2006 Draft Incentives Guide

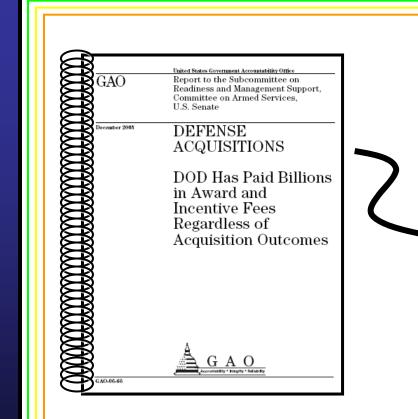


Air Force (SAF/AQC) Award Term/Incentive Options Guide - January 2003 2007 National Defense Authorization Act, PUBLIC LAW 109–364—OCT. 17, 2006, SEC. 814



Award and Incentive Fee Contracts

Study Proposal



Why GAO Did This Study

GAO was asked to determine whether award and incentive fees have been used effectively as a tool for achieving DOD's desired acquisition outcomes. To do this, GAO selected a probability sample of 93 contracts from the study population of 597 DOD award- and incentive-fee contracts that were active and had at least one contract action valued at \$10 million or more from fiscal year 1999 through 2003

Incentive Contracts Research Overview Briefing Defense Acquisition University (DAU), 17 May 2007



Research Problem Statement & Objective

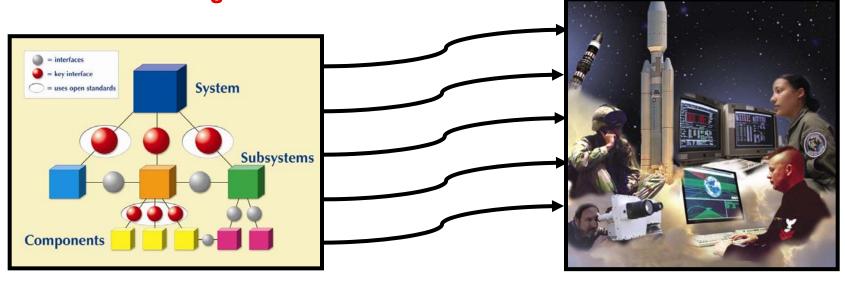
Problem Statement

• The Implementation of Award/Incentive Fee contracts in DoD are not producing the desired/intended outcomes. In some cases, the Acquisition community may not be implementing Award Fee/Incentive contracts, correctly.

Research Objective

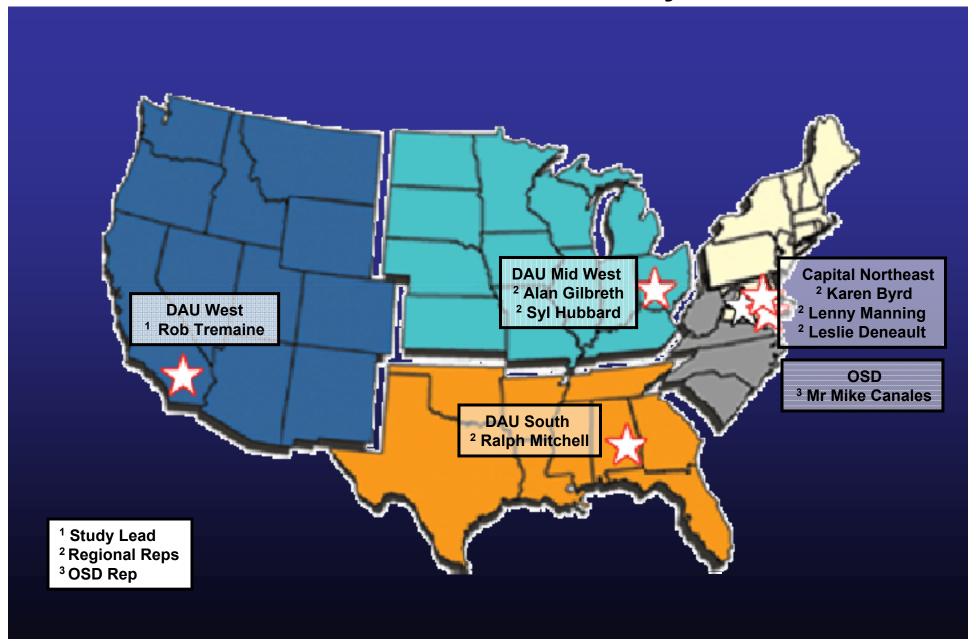
 DAU needs to understand where Award Fee/Incentive Fee made a favorable difference and why.

The Teams' Outcome Will Be A Research Project Rather than a Re-clama to the GAO Findings





Multi-Regional Award/Incentive Fee Study Team





Research Assumptions

Award/Incentive Fee Assumptions:

- 1. Improved Contractor Performance Has Not Always Been Achieved Through the Use Of Award Fee/Incentive Fee Contracts.
- 2. GAO Has Identified Numerous Award/Incentive Fee Contracts that Have Cost the Government Millions Without Always Producing Desired Contractual Outcomes.
- 3. In DoD Contracting, Award/Incentive Fee Contracts Can Be Powerful Tools to Favorably Influence Contractor Performance in conjunction with good acquisition fundamentals.
- 4. Empirical Evidence/Measurable Results Should Play a Pivotal Role In Award/Incentive Fee Determinations.
- 5. GAO Conclusions on the Ineffectiveness Of Award/Incentive Fee Contracting May Be A Result Of Certain Ineffective Practices that Could Be Undermining Policy



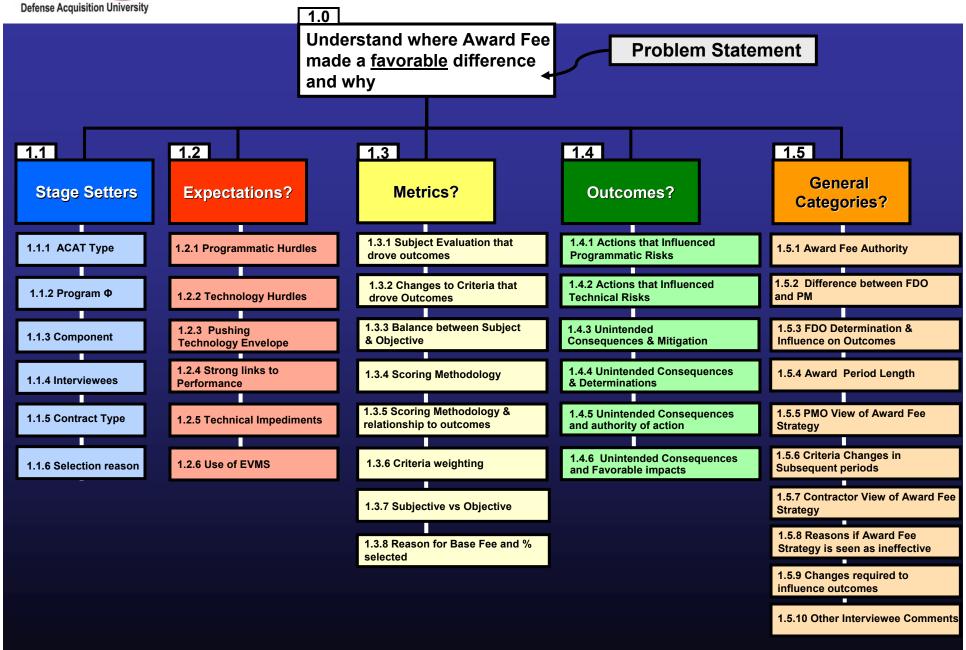
Exchange with the GAO

Met with Mr Tom Denomme and Mr Ron Schwenn on 20 Jun 06 at GAO HQ in DC— very informative exchange—their comments:

- Research effort looked for connection between AF/IF and favorable outcomes but they found little evidence to substantiate relationship
- Process seemed to be well understood—no chronic problems
- Found no issues with Policy
- Service Guidelines governing implementation of AF/IF is different—should it be?
- Award Fee sometimes drives requirements creep
- Performance outcomes were sometimes unrealistic--contractor couldn't deliver
- Surprisingly, TPMs didn't seem to play much into the equation
- GAO did not evaluate weighting methodology--would it have made a difference?
- In some cases, AF was seen and used by PM as a "Risk Management" device—is that a bad idea?
- FDO's final evaluation letters don't contain much substantiation—why is it so general?
- The contractor isn't encouraged to pursue alternate COAs especially if they or the government run into [anticipated] programmatic obstacles



Survey Approach Used A WBS Approach





Data Collection Instrument

INCENTIVE FEE and AWARD FEE SURVEY QUESTIONS

SECTION I. PROGRAMMATICS

- 1. What best describes your program?
 - a. ACAT I b. ACAT IA

 - c. ACAT II
 - d. ACAT III
 - e. Other
- 2. What best characterizes your program
 - a. System Development & Demons
 - b. Production and Deployment
 - c. Operations & Support
 - d. Other
- 3. What is your service component?
 - a Army
 - b. Navy
 - c. Air Force
 - d Other
- 4. What is your principle role?
 - a. Program Manager/Director/Proje
 - b. Contracting Officer
 - c. Systems Engineer
- 5. Did you choose an incentive fee or av
 - a. Incentive Fee
 - b. Award Fee
- c. Award Fee with Incentives
- d. Other
- 6. What were the principal reasons you s question 5?
- 7. If you chose an **Incentive** Fee, go to §
- 8. If you chose an Award Fee, go to Sec

SECTION II: INCENTIVE FEE (defined as CPIF and FPIF type contracts)

A. EXPECTATIONS

- 1. What incentives did you use?
- 2. Why did you choose these incentives
- 3. Did the incentives you chose create 4. If you faced funding issues, what ac
- contractor to help sustain favorable

B. METRICS

- 1. How did you determine the minimum motivated the contractor to perform 2. What metric(s) did you use to incen
- of methodology did you use?
- 3. How did your methodology lead to

C. OUTCOMES

- 1. Did the contractor stay within the co what were the outcomes in terms o
- 2. If as a result of the incentives used t mitigate those consequences in futu
- In retrospect, which of the incentive overcome unintended consequences performance outcomes?

D. GENERAL CATEGORY

- 1. How does your organization view yo your response.
 - a. Very effective in motivating the
 - b. Moderately effective in motivating c. Somewhat in motivating the con-
 - d. Not very effective in motivating
- 2. If you answered "D" above, what is Incentive Fee as "not very effective"
- a. Not everyone is well-trained on I
- b. Not everyone is aware of the con and developing the incentives.
- c. Other (explain)
- 3. How does your contractor view your a. Very Effective

 - b. Moderately effective c. Not very effective
- 4. In retrospect, what changes, if any, influence performance outcomes eve
 - a. None-it worked just fine
 - b. More vigorously apply ...
- 5. What other comments do you have c

SECTION III. AWARD FEE (Defined as CPAF and FP.

A. EXPECTATIONS

- 1. What were your primary programmatic hurdles?
- 2. What were your primary technology hurdles?
- 3. Where are you pushing the technology envelope? 4. What were your award fee objectives that created
- 5. How did you establish the criteria used in the awar
- 6. What programmatic and/or technical impediments reconciled during the Award Fee periods?
- 7. Did you and, if so, how did you use EVMS to influ
- 8. If you faced funding issues, what Award Fee actio contractor to help sustain favorable performance o

B. METRICS

- 1. What were your subjective evaluation criteria that
- 2. What changes did you make to the award fee criter that drove favorable outcomes and why?
- 3. How did you determine the balance/share between and what had the most favorable impact on perform
- 4. What was your scoring methodology?
- 5. How did your scoring methodology (and rating de performance outcomes?
- 6. What criteria did you weigh more heavily that had outcomes?
- 7. What did you weigh evenly and why did this weigh performance outcomes?
- 8. Could you have replaced any of the subjective crite have favorable impacts on performance outcomes
- 9. If you used a Base Fee, why did you use it and who

C. OUTCOMES

- 1. What specific Award Fee actions did you take that a. Programmatic risks?
- b. Technical risks?
- 2. In retrospect, what worked consistently in the Awa favorable performance outcomes?
- 3a. If your expected performance outcomes led to uni how did you mitigate those unintended consequen
- 3b. Did those unintended consequences have an impa contractor?
- 3c. Did you have the authority to change or eliminate a result of unintended consequences?
- 3d. In retrospect, what methods did you find that wor overcome unintended consequences and still pror performance outcomes?

D. GENERAL CATEGORY

1. Who made the final Award Fee determination?

Under Configuration Control: 2006 0702 Version 6

- 2. If the Award Fee Determination Official (FDO) was different from the Program Manager/Program Director, was the Award Fee decision different than what the PM recommended? If so, why?
- 3. How did the FDO determination favorably influence the expected outcome?
- 4 If earlier Award Fee decisions realized less tangible outcomes, what subjective or objective criteria/weighting were changed in subsequent award fee periods to influence favorable performance outcomes and why?
- 5. What is the length of time between your award fee periods? Why did you select that period of time? Were they too short or too long?
- 6. How does your organization view your Award Fee strategy? Please elaborate after vour response.
- a. Very effective in motivating the contractor
- b. Moderately effective in motivating the contractor
- c. Somewhat effective in motivating the contractor
- c. Not very effective in motivating the contractor.
- 7. If you answered "D" above, what is the principle reason your organization might view Award Fee as "not very effective"? Please elaborate after your response.
 - a. Not everyone is well-trained on Award Fee
 - b. Not everyone is aware of the complicating factors that are considered in the
- 8. How does your contractor view your Award Fee strategy?
- 9. In retrospect, what changes, if any, would you make to the Award Fee Plan to influence performance outcomes even more?
- 10. What has been your Contractor response to your determinations?
- 11. What other comments to you have concerning Award Fee?



Incentive Contract Study Interviews By Region



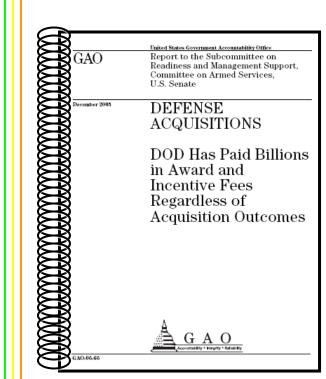
	West Region		Mid-West		South		CNE/MA
+	SBIRS High	+	B-2	+	Kinetic Weapons	+	MDA Sensors
+	GPS	+	C-17			+	MDA Targets and Countermeasures
+	RAIDRS	+	F-15			+	MDA Top Level
+	AEHF	+	F-16			+	ММА
+	STSS	+	Global Hawk			+	MDA C2BMC
+	AFSCN	+	Global Transportation Network			+	E2C
		+	AMC Contractor Tactical Terminal Operations			+	MH-60
		+	FCS			+	AV-8
		+	Total Integrated Engine Revitalization			+	EFV
		+	Biological Detection System				

+ Completed Interviews



Award and Incentive Fee Contracts

Study Findings





Why GAO Did This Study

GAO was asked to determine whether award and incentive fees have been used effectively as a tool for achieving DOD's desired acquisition outcomes. To do this, GAO selected a probability sample of 93 contracts from the study population of 597 DOD award- and incentive-fee contracts that were active and had at least one contract action valued at \$10 million or more from fiscal year 1999 through 2003

Incentive Contracts Research Overview Briefing Defense Acquisition University (DAU), 17 May 2007





1. Strongly Communicate Expectations and Continually **Provide Feedback**

Metrics?

- Establish Open dialogue at both Junior and Senior levels
- Ensure that Contractor is never surprised by what they get
- Employ "Emphasis letters" or "Barometer reports" during award periods to stress the importance of certain "outcomes" or "events"
- **Conduct Monthly reviews**
- Set and Maintain Unequivocal Expectations
- Enforce a strongly prepared and focused evaluation board that also garners upper management support



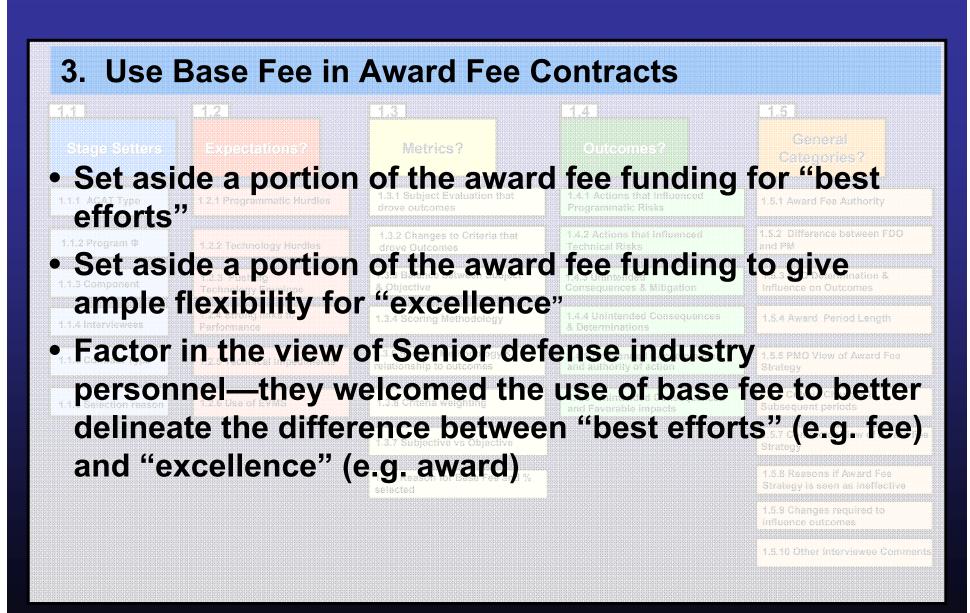


2. Use Relevant, Achievable and Enduring Measures Within an Evaluation Period

- "Hard-wire" measures to achievable outcomes
- Employ technical performance goals and cost controls
- Jointly develop incentive criteria with contractors since they tend to be more strongly correlated to outcomes
- Select Key outcomes that make evaluation periods more enduring by creating a bridge between one award fee period and the next revise that make evaluation periods more as a last unimended Consequences.
- Use subjective measures to drive critical processes, management responsiveness, and certain behavior
- Institute a combined objective and subjective measures strategy











4. Institute Training and Leverage Experienced Personnel to the Maximum Extent

- Incorporate the practical experience of many already embedded talented personnel
- Establish formalized instruction and continue to coach
 - personnel on use of incentives

- Require performance monitors to observe other assessments to help them appreciate the depth of
 - evaluations

Encourage "Specialty" training for key personnel who administer incentive contracts





20 July 2006 Industry Day <u>Themes</u> collected at DAU Headquarters

5. Carefully Weigh Industry Concerns

- "Government Construction of the Award Fee Plan (Including Metrics, Incentives, etc.)

 May Not Link With the Offeror's Proposed Solution Or Motivations
- Award Fee Sometimes isn't Proper Contract Type to Achieve Program Outcomes
- In Some Cases, the Intended Goal(s) of Award Fee Contracts are Unclear
- Contracts Without Base Fee Can Cause Problems
- In Some Cases, the Government Does Not Follow Its Own Policies On Award Fee
- On Occasion, Award Fee Evaluation Criteria Are Poorly Explained Or Justified and Communication of Award Fee Goals and Criteria Are Not Clearly Explained
- It is Difficult to Establish the Relationship Between Awards For month-to-month Activities to the Goals Of A Multiple-Year Program. The Linkage is Not Always Apparent
- Administration of Award Fee Criteria Can Change Post Award and Create Problems
 During Contract Execution
- Government May Not Manage Or Evaluate Award Fee Criteria as Agreed /Planned
- Post-award administration of Award Fee contracts is time and resource intensive





20 July 2006 Industry Day <u>Themes</u> collected at DAU Headquarters

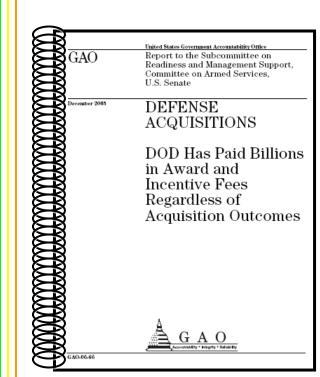
5. Carefully Weigh Industry Concerns

- Government Personnel Are Not Adequately Trained in Managing Award Fee Contracts
- Desired Outcomes Are Not Always Driven By The Award Fee Because Of Insufficient Funds Available and Subjectivity Of The Final Evaluation.
- Inconsistency In the Timing Of the Award In Line With The Evaluation Criteria
 And Uncertainly Of Expected Profitability Before Award Pose Additional Problems
- Contracting Parties /Stakeholders have Different Perceptions of Award Fees
 Purposes
- In Some Cases, There is Government Failure to Understand the Economics of Defense Contracting and its Impact On Government Contractors
- From Time to Time, There is Inappropriate Use Of Award Fee Contracts
- Award fee is not targeted at creating fair shareholder value (or financial advantage to the private company) in line with actual performance. Metrics are sometimes not meaningful and are "fuzzy" in line with "fuzzy" requirements. Sometimes they are too subjective and do not measure outcomes that are sought by DoD
- Award fees that require the contractor to exceed the requirements of the contract motivate requirements creep or "goldplating"



Award and Incentive Fee Contracts

Recommendations





Why GAO Did This Study

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Incentive Contracts Research Overview Briefing Defense Acquisition University (DAU), 17 May 2007



Recommendations

- Maximize two existing Continuous Learning Modules (CLMs) to help guide organizations with their incentive selection and subsequent pathway.
 - Contractual Incentives (CLC-018): focuses on balance between government and industry goals and objectives in crafting an effective incentive strategy
 - Provisional Award Fees (CLC-034): addresses the new 2003 rule that permits award fee payments to be made anytime prior to the interim or final evaluation.
- Exploit the increasingly popular collaborative medium called Communities of Practices (COPs)—DAU has already established a site on the ACC, "Award and Incentive Fee Contracts." (https://acc.dau.mil/CommunityBrowser.aspx?id=105550).
 - Provides access to a wide array of documented lessons learned regarding incentives
 - Provides the community a bridge to the source of experts who face incentive challenges every day
 - Reinforces useful incentive practices and techniques
- Develop a much more comprehensive Incentive Contracts CLM



David M. Walker Comptroller General of the United States

December 21, 2006 Responses to the Subcommittee on Defense, Committee on Appropriations, House of Representatives

2. Do you believe they are an effective way to create incentives with contractors? In other words, do they improve contractor performance?

Award and incentive fees can be an effective tool if properly designed and effectively administered. However, for these fees to be effective, DOD must address the underlying problems in its acquisition system and more directly link the fees to the outcomes it wants. Because the weapon system programs that result from this system are in many cases unexecutable and/or subject to changing "requirements" or funding levels, DOD has been unwilling to hold its programs or its contractors accountable for achieving the very acquisition outcomes it has identified. As a result, fees are paid even when outcomes do not meet expectations. Addressing these broader acquisition issues and strengthening the link between fees and acquisition outcomes can increase the accountability of DOD programs for fees paid, of contractors for results achieved, and the likelihood that these fees will motivate the contractors and be an effective tool for the government.

3. Do you believe we should discontinue the use of award and incentive fees?

No, we do not believe they should be discontinued. Award and incentive fees can be useful if they are used in the appropriate setting. Each contract type has a use based on the level of risk involved. The problem occurs when you proceed into programs without realistic requirements and sufficiently mature technologies on which to base realistic cost and schedule estimates and attempt to offset that increased risk by offering award fees to motivate the contractor to overcome that risk. The important question is: Have you adequately defined and established appropriate criteria that enable you to measure outcomes? And finally, how do you apply those criteria in determining the level of fee that can be justified? We have made several recommendations to this effect, and DOD has responded favorably with new guidance to link award fees to acquisition outcomes. However, as with other recommendations we have made related to DOD weapon system acquisitions, the key will be how this new policy is implemented.



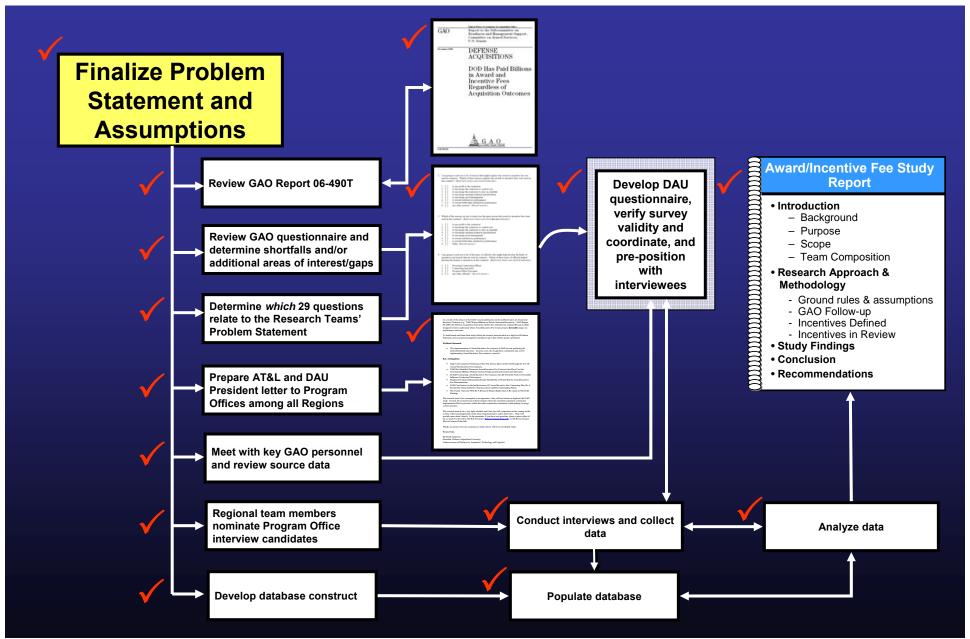
An Aggregate View

Relevant, Achievable and Enduring Measures Frequent and Unambiguous Communication/Feedback Key **Attributes Trained and Experienced Personnel** No Base Fee Base Fee **Cost Plus Incentive Fee (CPIF) Cost Plus Award Fee (CPAF)** Description Description Provides for the initially negotiated fee to be adjusted later by a Provides for a fee consisting of (1) a base amount fixed at formula based on the relationship of total allowable costs to total inception of the contract and (2) an award amount that the target costs; specifies a target cost, a target fee, minimum and contractor may earn in whole or in part during performance and maximum fees, and a fee adjustment formula. After contract **Differentiation** that is sufficient to provide motivation for excellence in such performance, the fee payable to the contractor is determined in areas as quality, timeliness, technical ingenuity, and costaccordance with the formula. The formula provides, within limits, effective management. The amount of the award fee to be paid is for increases in fee above target fee when total allowable costs determined by the Government's judgmental evaluation of the are less than target costs, and decreases in fee below target fee when total allowable costs exceed target costs. This increase or contractor's performance in terms of the criteria stated in the decrease is intended to provide an incentive for the contractor to contract. This determination and the methodology for manage the contract effectively. When total allowable cost is determining the award fee are unilateral decisions made solely at greater than or less than the range of costs within which the feethe discretion of the Government. adjustment formula operates, the contractor is paid total allowable costs, plus the minimum or maximum fee **Incentive Contracts** Suitable when a firm-fixed-price contract is not appropriate **Application** Motivates Contractor Efforts that Might not Otherwise be Emphasized

Discourages Contractor Inefficiency And Waste



How this Research Study Came Together





Back-Ups



Management Deliberation Center



