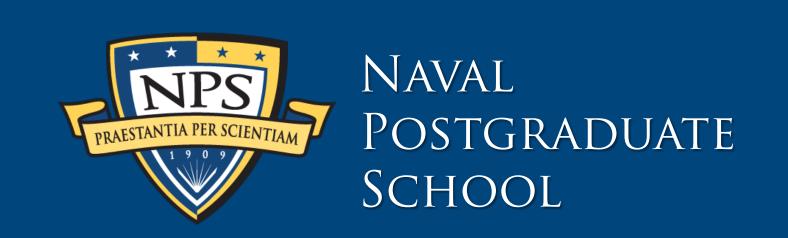
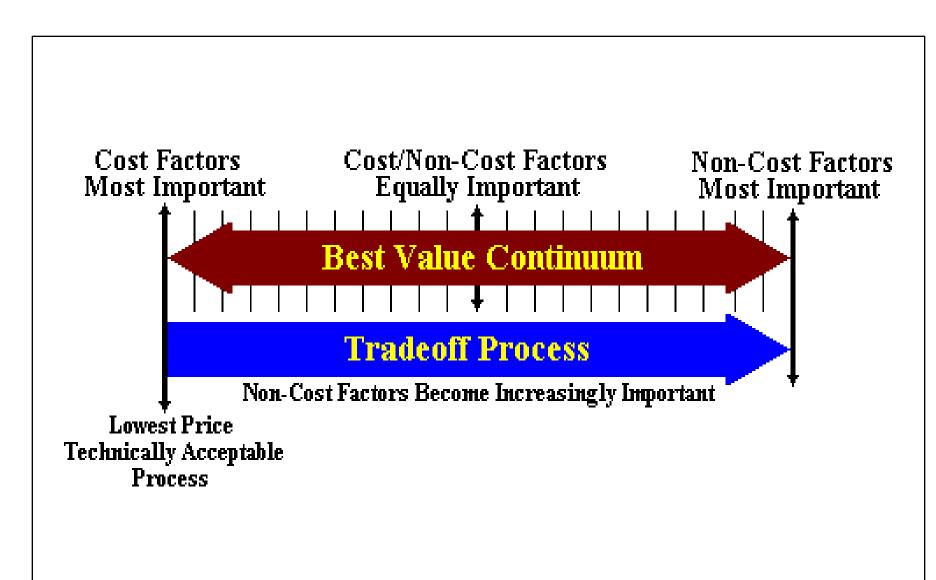
Contract Source Selection: An Analysis of Lowest Price Technically Acceptable and **Tradeoff Strategies**



Abstract

Source selection planning is an integral part of the acquisition process. Use of an appropriate source selection strategy is key to minimizing risk and ensuring best value to the customer, the service, and the taxpayer. Based on thorough market research, acquisition professionals must decide at an early stage whether to use a lowest price technically acceptable (LPTA) or tradeoff source selection strategy to evaluate proposals and determine which offer presents the best value to the government.

The purpose of this research is to determine if a relationship exists between source selection strategy (LPTA or Tradeoff) and successful contract outcomes. Contract outcomes include procurement administrative lead-time, Contractor Performance Assessment Reporting System (CPARS) ratings, and, where available, earned value management (EVM) assessments. This research is part of an ongoing acquisition research stream. Our research incorporates new data extracted from a sample of 50 contract files and related documentation within two major systems commands: Space and Naval Warfare Systems Command and Naval Supply Systems Command.



Is there a relationship between source selection strategy and contract outcomes?

Data Collection Catagories									
Environmental Factor		Outcome Variables				Other			
# Reviews	# Team Locations	PALT - Requirement Receipt Date	Protest	EVM CV	RFP Amendment Reason 2	# Evaluation Notices			
Review 1 Date	ACE Support	PALT - RFP Issue Date	Protest Level	EVM SV	RFP Amendment Reason 3	# ENs Pre- Competitive Range			
Review 2 Date	MIRT Support	PALT - Proposals Received Date	Protest Results	EVM CPI	RFP Amendment Reason 4	# ENs Post- Competitive Range			
Review 3 Date	Use of Collaboration Tools	PALT - Contract Award Date	Corrective Action (Describe)	EVM SPI	RFP Amendment Reason 5	# Rounds of ENs			
Review 4 Date	Abundance/Lack of File Documentation Rating	PALT - Days	CPAR Cost	Nunn- McCurdy Breach	RFP Amendment Reason 6	# Clarification Requests			
# Personnel on Source Selection Team	State of the Economy	Early Strategy and Issues Session (ESIS) Date (>\$100M)	CPAR Quality	# of RFP Amendment s	Earned Award Fee %	# Deficiency Reports			
		ASP Date	CPAR Business Relationship	RFP Amendment Reason 1	Earned Incentive Amount/ Available	Basis for Award			

Methodology

- The research team performed a literature review on the contract management process, specifically focusing on the best value continuum and its role in the source selection process.
- The research team reviewed 50 contracts and related documentation from two major systems commands (SPAWAR and NAVSUP) to gather the data required for analysis.
- After reviewing the contract files, the research incorporated a statistical data analysis that examined the relationship between source selection strategy and specified contract outcomes.

Results

- Using PALT as the dependent variable, the results indicate that, on average, tradeoff source selections take 105% longer than LPTA. For tradeoff source selection strategies, there is a strong relationship between the number of reviews and PALT.
- Using CPARS as the dependent variable, source selection strategy does not produce significantly different CPARS ratings (more CPARS data required to confirm results).
- The Kruskal-Wallis H Test confirms the findings regarding the relationship between source selection strategy and CPARS ratings.

Descriptive Statistics									
Variable	Obs	Mean	Standard Deviation	Min	Max				
	30	1,576.4670	7,291.57100	14	40,163				
PALT (days)	18	126.1111	81.24682	14	370				
	12	3,752.0000	11,469.61000	84	40,163				
Average CPARS Rating	20	3.571667	0.6885467	2.2	5				
	5	3.600000	0.5477226	3.0	4				
	7	3.478571	0.9406811	2.2	5				
Value	44	\$24,000,000.00	\$41,300,000.00	\$27,819.07	\$250,000,000.00				
	18	\$1,368,585.00	\$1,380,352.00	\$27,819.07	\$4,499,432.00				
	14	\$45,900,000.00	\$64,500,000.00	\$99,999.43	\$25,000,000.00				
Number of Evaluation Factors	31	2.709677	1.1311810	1	5				
	17	2.058824	0.6586528	1	3				
	14	3.500000	1.0919280	2	5				
Number of Reviews	31	7.258065	6.956856	2	25				
	18	4.44444	5.260533	2	25				
	13	11.153850	7.312616	2	24				
Number of Offers	43	3.348837	3.279690	1	12				
	18	3.833333	4.514682	1	12				
	14	3.500000	2.103111	1	8				
Number of CLINs *Blue = Total for all of	31	17.35484	51.52834	1	290				
	18	22.00000	67.09782	2	290				
	13	10.92308	13.51827	1	47				
	13		13.51827	1					

Areas for Further Research

- How would the inclusion of additional EVM data alter research findings and the implications thereof?
- With the release of the latest DOD Source Selection Procedures (DFARS PGI Subpart 215.3 dated 31 March 2016), how would the identified procedures and best practices affect source selection strategy determination?



LPTA



Trade-off

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