

Report to the Commander, Armament Division, U.S. Air Force Systems Command

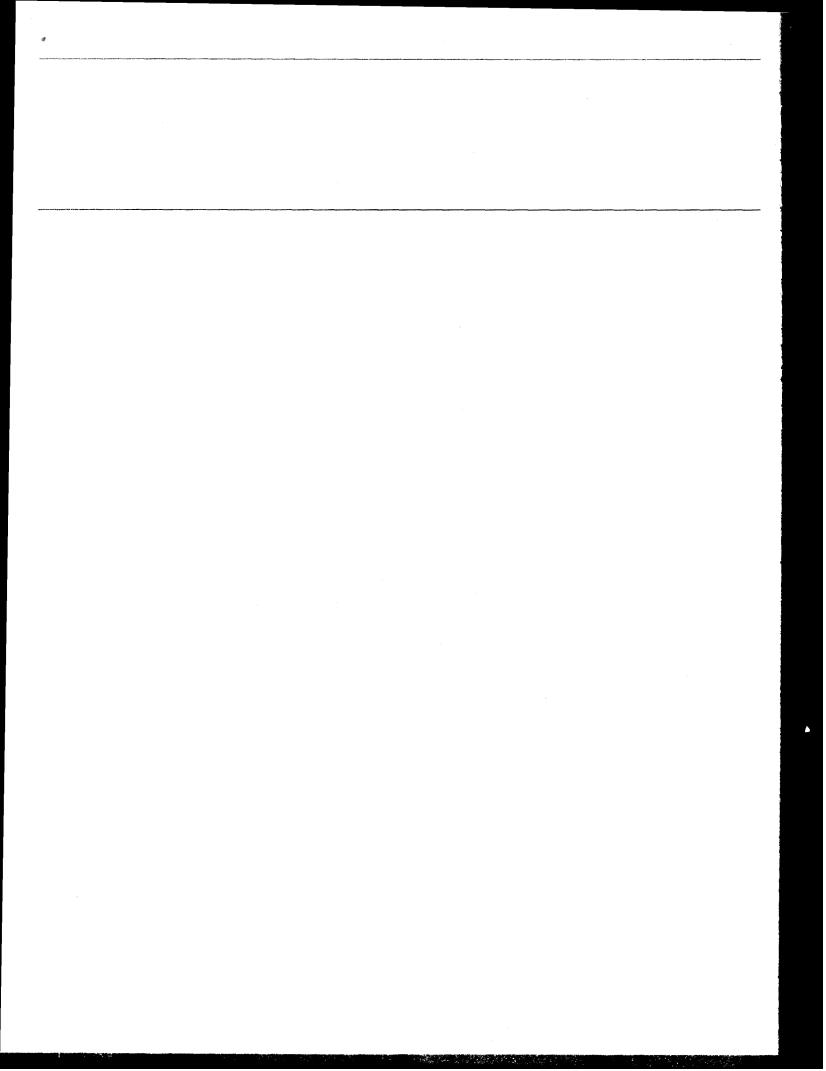
April 1989

CONTRACT PRICING

Material Prices Overstated on GBU-15 Bomb Weapon System







GAO

United States General Accounting Office Washington, D.C. 20548

Atlanta Regional Office

101 Marietta Tower-Suite 2000 Atlanta, GA 30323

B-219741

April 27, 1989

Brigadier General K. E. Staten Commander, Armament Division U.S. Air Force Systems Command Eglin Air Force Base, FL 32542

Dear General Staten:

As part of our continuing review of compliance with the Truth in Negotiations Act, we reviewed material prices under firm fixed-price contract F08635-84-C-0119, awarded to Rockwell International Corporation, Missile Systems Division, Duluth, Georgia. The Armament Division awarded Rockwell the contract to produce module sets¹ for the GBU-15 Modular Guided Weapon System. The GBU-15 weapon system is a precision guided bomb capable of destroying various targets.

Our objective was to determine whether Rockwell complied with the Truth in Negotiations Act, Public Law 87-653, as amended, by providing accurate, complete, and current cost or pricing data to the contracting officer. We found that Rockwell did not disclose accurate, complete, and current cost or pricing data for 13 material items. The nondisclosures caused the contract to be overpriced by \$5,580,724, including overhead, profit, and warranty costs.

Rockwell officials do not believe the nondisclosures caused the contract to be overpriced. We disagree with their position and believe this report provides a basis for you to initiate action to recover the overstated material prices from Rockwell. We recommend that you take such action.

Appendix I contains detailed information on the material overpricing and the views of Rockwell officials and the contracting officer. We would appreciate being informed of any action taken on this matter.

Copies of this report are being sent to the Vice President and General Manager, Missile Systems Division, Rockwell International Corporation, Duluth, Georgia; the Department of Defense, Office of the Inspector General, Washington, D.C.; and the Regional Director, Defense Contract Audit Agency, Eastern Region, and the Commander, Defense Contract

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¹A module set consists of four components—target detecting device, control unit, airfoil group, and guidance section adapter—which are attached to a 2,000-pound bomb.

Administration Services, Atlanta Region, Marietta, Georgia. Copies will also be made available to others upon request.

The major contributors to this report are listed in appendix II.

Sincerely yours,

ames D. Martin

James D. Martin Regional Manager

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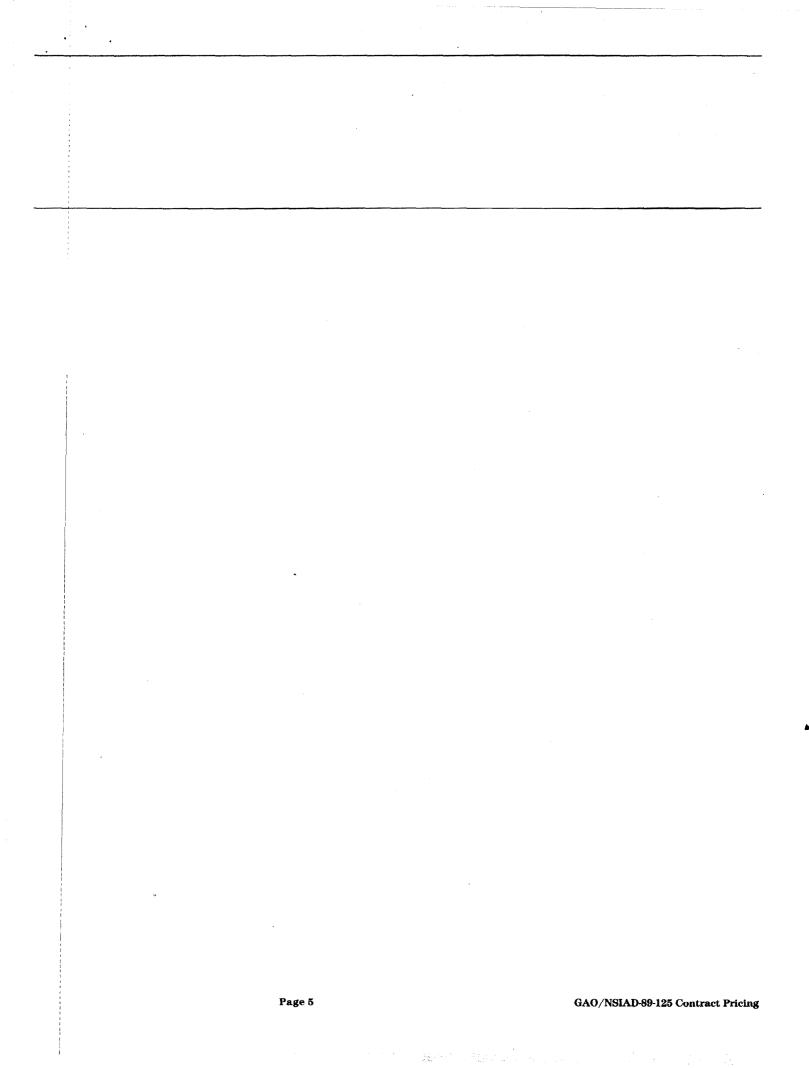
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Background	The Truth in Negotiations Act, Public Law 87-653, as amended, requires that, with certain exceptions, contractors submit cost or pricing data to support proposed prices for noncompetitive contracts. The act also requires contractors to certify that the data submitted are accurate, complete, and current. When Public Law 87-653 applies, the government has the right to a price reduction if the contracting officer determines that the contract price was overstated because the data submitted were not accurate, complete, or current.							
	Rockwell's contract proposal to the Air Force provided for 350 module sets for a 1984 basic buy and 530 ¹ sets for a 1985 option buy. After entering contract negotiations in December 1983, the Air Force increased the quantity for the basic buy to a maximum of 533 module sets. Rockwell did not revise its proposal to reflect the increased quanti- ties. Instead, the Air Force and Rockwell negotiated a price for the basic buy of 350 module sets, then used this price as a basis for negotiating the prices for the other quantities.							
	Based on this methodology, the Air Force and Rockwell agreed to the contract price for the 1984 basic and 1985 option buys on January 27, 1984. Rockwell issued a Certificate of Current Cost or Pricing Data for the contract on February 3, 1984, and certified that data supplied to the government were accurate, complete, and current as of January 27, 1984.							
	The Air Force awarded f Rockwell for 1,063 GBU- shown in table I.1.							
able I.1: Negotiated Contract Quantities		. 1	·····					
nd Prices	Contract action	Date	Quantity	Price				
	Basic buy—1984:							
j .	Basic award	03/14/84	438	\$47,521,518				
	Modification P00001	06/27/84	95	10,272,78				
	Option buy—1985:							
ļ	Modification P00004	12/21/84	530	56,192,169 \$113,986,47 0				
	Total		1,063					

 $^{\rm l}$ Rockwell's proposal was based on providing 525 target detecting devises and control units, 12 training control units, and 537 airfoil groups and guidance section adapters. The Air Force considered these components to be equivalent to 530 module sets.

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· · · · · · · · · · · · · · · · · · ·	Appendix I GBU-15 Material Prices Overstated					
	Responsibility for administerin ferred from the Air Force Syste the Ogden Air Logistics Center, 1986.	ms Command's	s Armament Di	vision to		
Noncompliance With Public Law 87-653 Resulted in Overstated Material Prices	The contract price was overstated by \$5,580,724, including overhead, profit, and warranty costs because Rockwell did not disclose accurate, complete, and current pricing data for 13 material items. Specifically, Rockwell did not disclose lower subcontractor price quotations, informa- tion obtained during fact-finding visits to subcontractor plants, a com- pany negotiation position for one of the subcontractors, and actions to negotiate a long-term purchase agreement. Table I.2 summarizes the overstated material costs.					
able I.2: Summary of Overstated						
faterial Costs		Beele huur	Ontion hund	Amount		
	Cause of overstatement	Basic buy	Option buy			
	Fact-finding information	\$284,410 1,060,358	\$272,122	\$556,53		
	Price negotiation position	(952)	1,302,289	2,362,64		
	Long-term purchase agreement	181,753	283,500	465,25		
	Total	1,525,569	1,968,811	3,494,38		
	Overhead, profit, and warranty costs	902,031	1,184,313	2,086,34		
	Total	\$2,427,600	\$3,153,124	\$5,580,72		
	^a Overhead and profit were calculated by usin puted by using the rate negotiated between			sts were com-		
			lower price au			
	Rockwell did not disclose that it from its suppliers for seven of t 1984, contract price agreement overstated by a net of \$556,532	he material ite date. As a resu	ms before the . lt, material cos	January 27		
	from its suppliers for seven of t 1984, contract price agreement	he material ite date. As a resu	ms before the . lt, material cos	January 27		
	from its suppliers for seven of t 1984, contract price agreement	he material ite date. As a resu	ms before the . lt, material cos	January 27		
Nondisclosure of Lower Available Price Quotations	from its suppliers for seven of t 1984, contract price agreement	he material ite date. As a resu	ms before the . lt, material cos	January 27		

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Table I.3: Overstated Material Costs Resulting From Nondisclosure of Lower Vendor Price Quotations

		Unit price			Number	Amount of
Nomenclature	Contract buy	Disclosed	Not disclosed	Difference	of units	overpricing
Roll gyroscope	Basic	\$2,155.00ª	\$2,025.00ª	\$130.00	533	\$69,290
	Option	2,201.46ª	2,162.90 ^a , ^b	38.56	525	20,244
Total						89,534
Directional gyroscope	Basic	2,951.76ª	2,775.00ª	176.76	533	94,213
:	Option	3,048.89ª	2,963.98 ^a , ^b	84.91	525	44,578
Total						138,791
Optical lens assembly	Basic	468.00	491.21	(23.21)	533	(12,371
	Option	468.00	385.58	82.42	525	43,271
Total						30,900
Optical dome	Basic	260.00	213.00	47.00	533	25,051
	Option	260.00	216.00	44.00	525	23,100
Total						48,151
Battery	Basic	2,606.03	2,425.53	180.50	533	96,207
	Option	2,788.87	2,590.71 ^b	198.16	525	104,034
Total	,					200,241
Strake assembly:				·		
Painted	Basic	178.60	172.88	5.72	1,672	9,564
Unpainted	Basic	166.95	161.61	5.34	460	2,456
Painted	Option	197.06	184.65 ^b	12.41	2,148	26,657
Total						38,677
Guidance casting	Option	148.50	129.00	19.50	525	10,238
Total		a, 11 11. ₀₀ ,				\$556,532

^aExcludes proposed testing costs.

^bOur option buy unit price was calculated by escalating the basic buy price quotation to account for inflation associated with the later delivery date.

The following two examples illustrate the overpricing conditions we found for these seven material items.

Optical dome—Rockwell proposed to provide optical domes for the 1984 basic and 1985 option buys at a unit price of \$260. Rockwell based its proposed price on a Pacific Optical quotation dated August 15, 1983. In response to Rockwell's request, Alpha Optical Systems, Incorporated² on November 28, 1983, quoted unit prices of \$213 and \$216 for the basic and option buys, respectively.

 $^2 \rm Rockwell$ visited Alpha Optical Systems, Incorporated on June 17, 1983, and found the subcontractor to be a qualified supplier.

	Appendix I GBU-15 Material Prices Overstated
	Rockwell did not disclose Alpha Optical Systems' lower quotations to the contracting officer. As a result, Rockwell's proposed material costs for the basic and option buys were overstated by \$48,151, as shown in table I.3. After contract award, Rockwell purchased the optical domes from Alpha Optical Systems, Incorporated for the 1984 basic and 1985 option buys for \$182 each.
	Battery—Rockwell proposed unit prices for batteries of \$2,606.03 and $$2,788.87$ for the 1984 basic and 1985 option buys, respectively. The proposed price for the basic buy was based on a revised Yardney Corporation quotation dated November 9, 1983, for 362 batteries, and the proposed price for the option buy was based on a Yardney quotation dated October 27, 1983, for 527 batteries.
	On January 5, 1984, Rockwell requested that Yardney provide a quota- tion for 525 batteries, plus or minus 25 batteries, for the basic buy. Rockwell requested a quotation for this quantity because the Air Force increased the basic buy requirement from 350 to a maximum of 533 module sets during contract negotiations.
	On January 9, 1984, Yardney responded by quoting a \$2,425.53 unit price. Rockwell did not disclose the lower quotation to the contracting officer. As a result, Rockwell's proposed material costs for the basic buy were overstated by \$96,207, as shown in table I.3. After contract award, Rockwell purchased the 1984 basic buy batteries for \$2,100.37 each.
	The nondisclosure of the basic buy quotation also caused the 1985 option buy to be overstated. Yardney's January 9, 1984, quotation for the basic buy showed that Rockwell could obtain a lower unit price for the 1985 option buy. Had the relevant cost or pricing data been dis- closed, the contracting officer could have made an appropriate adjust- ment to Rockwell's proposed price for the 1985 option buy.
v	To determine the amount of overpricing, we calculated the option buy unit price by increasing Yardney's nondisclosed January 9, 1984, basic buy quotation to account for inflation resulting from the later option buy delivery schedule. We used the same inflation factors that Rockwell would have used. We then compared our calculated option buy unit price with the option buy price Rockwell proposed. The nondisclosure resulted in Rockwell's proposed material costs for the option buy being overstated by \$104,034, as shown in table I.3. After contract award, Rockwell purchased the 1985 option buy batteries for \$2,021.02 each.
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Nondisclosure of Fact-Finding Information

From January 5 through 10, 1984, Rockwell made fact-finding visits to subcontractor plants for four material items. During these visits, Rockwell officials obtained cost and pricing data showing that the four items could be purchased at prices lower than those proposed to the government. Although the data were obtained before the January 27, 1984, price agreement date, Rockwell did not disclose the information to the Air Force contracting officer. The nondisclosure caused the proposed material costs for the four items to be overstated by \$2,362,647, as shown in table I.4.

Table 1.4: Overstated Material Costs Resulting From Nondisclosure of Fact-Finding Information

Nomenclature	Contract buy	Certified unit price	Cost of analysis information	Unit price difference	Quantity	Amount of overpricing
Gimbal platform	Basic	\$9,434.15	\$8,568.61	\$865.54	533	\$461,333
	Option	10,170.57	8,769.84	1,400.73	525	735,383
Total						1,196,716
Wing assembly:						
Painted	Basic	1,439.00	1,359.11	79.89	1,672	133,576
Unpainted	Basic	1,370.00	1,290.14	79.86	460	36,736
Painted	Option	1,516.00	1,434.23	81.77	2,148	175,642
Total						345,954
Control surface:						
Painted	Basic	379.00	351.75	27.25	1,672	45,562
Unpainted	Basic	357.00	329.59	27.41	460	12,609
Painted	Option	398.00	358.14	39.86	2,148	85,619
Total						143,790
Actuator	Basic	9,039.01	8,343.81	695.20	533	370,542
•	Option	9,386.27	8,804.09	582.18	525	305,645
Total					<u>,</u>	676,187
Total			- 1999			\$2,362,647

The following examples show the overpricing conditions we found.

<u>Gimbal platform</u>—Rockwell based its proposed unit prices of \$9,434.15 and \$10,170.57 for the 1984 basic and 1985 option buys, respectively, on an August 25, 1983, General Electric quotation. On January 10, 1984, Rockwell officials visited General Electric and obtained cost and pricing data which showed that the gimbal platforms could be purchased for less than Rockwell had proposed to the government.

Appendix I **GBU-15 Material Prices Overstated** For example, Rockwell officials obtained manufacturing labor hours expended by General Electric on previous contracts and used the data to question 9,730 manufacturing labor hours proposed by General Electric. Rockwell officials also examined material price quotations provided to General Electric by its suppliers as well as General Electric's scrap allowance records. Rockwell used the data to question General Electric's proposed material costs. Although the data were available before the January 27, 1984, price agreement date, Rockwell did not disclose it to the contracting officer. Following the fact-finding visit, Rockwell prepared a negotiation plan dated March 5, 1984, setting out its objectives for price negotiations with General Electric. The negotiation objectives shown in table I.5 were taken from an undated Rockwell cost analysis report that was based on the pricing data Rockwell obtained during its January 10, 1984, factfinding visit. **Table I.5: Rockwell Negotiation Objectives for Gimbal Platform** Unit price objectives **Contract buy** Quantity Recommended **Upper limit** Basic 548 \$8,352.56 \$8,568.61 Option 526 8,464.48 8,769.84 Using Rockwell's upper limit negotiation objective, the nondisclosure of the fact-finding information caused proposed material costs to be overstated by \$1,196,716, as shown in table I.4. After contract award, Rockwell purchased the gimbal platforms from General Electric at unit prices of \$8,400 and \$8,575 for the basic and option buys, respectively. Wing assembly—Rockwell proposed unit prices of \$1,439 and \$1,370 for painted and unpainted wing assemblies, respectively, for the basic buy and \$1,516 for painted wing assemblies for the option buy. Rockwell's proposed prices were based on a Reynolds and Taylor, Inc., quotation dated October 21, 1983.

> On January 5 and 6, 1984, Rockwell officials visited Reynolds and Taylor and obtained cost and pricing data showing the wing assemblies could be purchased for less than Rockwell had proposed to the government. Although obtained before the January 27, 1984, price agreement date, Rockwell did not disclose the information to the contracting officer.

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Appendix I GBU-15 Material	Prices Overstated			
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hours for the to question al Rockwell offi Reynolds and tioned propos obtained info	three prior wing bout 10,500 labo cials also exami l Taylor by its su sed material esca rmation that the	g assembly pro or hours propos ned material pr appliers and, or alation costs. R ey used to ques	curements and used by Reynolds rice quotations p in the basis of the ockwell officials tion Reynolds an	used the dat and Taylor. provided to e data, ques s also nd Taylor's
dated March	19, 1984, setting	, out its objectiv	ves for price neg	-
0	.	0	Unit price o	
				Upper lim \$1,359.1
Basic		482		1,290.1
Option	Painted	2,158	1,236.37	1,434.2
analysis repo January 5 an Rockwell's up fact-finding in	rt based on prici d 6, 1984, fact-fi oper limit negoti nformation caus	ng data obtain Inding trip to R ation objective, ed proposed ma	ed by Rockwell (eynolds and Tay , the nondisclosu	during its ylor. Using tre of the
verters for th based its prop Inc. Varo upd	e 1984 basic and posed prices on a ated its quotatic	l 1985 option b a September 19 on on December	uys, respectivel, , 1983, quotation : 17, 1983, and a	y. Rockwell n from Varo
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tract buy	Disclosed	Not disclosed	Difference	Supplier	Quantity	overpricing
_		Unit prices				Amount of
le I.7: Overpricir	ng of Inverter Conve	rter Resulting From	Nondisclosure of Pr	ice Negotiation Po	sition	
			· · · · · · · · · · · · · · · · · · ·			
		\$109,948, as	shown in table I.	7.		
1		closure cause	ed Rockwell's pro	posed material	0	
		-	se the information			
			he presentation s f \$2,148.54 from			
		objective of §	\$2,222.31 from E	lbit and \$2,618.	03 from Varo. 1	For the
		For the basic	buy, the present	ation establishe	d a unit price i	negotiation
		Varo and Elt	pit.			
		procurement	officials recomm	nended that the	award be split	between
				•		
1		Appendix I GBU-15 Material	Prices Overstated			

	Unit prices					Amount of
Contract buy	Disclosed	Not disclosed	Difference	Supplier	Quantity	overpricing
		\$2,618.03	(\$76.03)	Varo	433	(\$32,921)
Basic	\$2,542.00					
		2,222.31	319.69	Elbit	100	31,969
Total					533	(952)
		2,923.43	(288.43)	Varo	194	(55,955)
Option	2,635.00					
		2,148.54	486.46	Elbit	343	166,856
Total					537	110,900
Total						\$109,948

After prime contract award, Rockwell purchased the inverter converters for \$159,750 less than the price certified to the government. Rockwell paid an average unit price of \$2,448 as compared with its \$2,542 proposed unit price for the basic buy. For the option buy, Rockwell paid an average unit price of \$2,431 as compared with its \$2,635 proposed unit price.

Nondisclosure of Long-Term Purchase Agreement

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Rockwell proposed unit prices of \$3,047 and \$3,246 for vidicon tube assemblies for the 1984 basic and 1985 option buys, respectively. Rockwell's proposed prices were based on a September 8, 1983, RCA Corporation quotation. On January 11, 1984, Rockwell's subcontract administrator and cost analyst visited RCA and discussed potential costreduction measures for the basic and option buys.

On January 20, 1984, Rockwell's Manager of Subcontracts Administration and RCA officials discussed a 5-year purchase agreement for the

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vidicon tube assemblies. According to the record of telephone discussions, the officials discussed specific terms for the agreement, including (1) Rockwell's use of RCA as the exclusive supplier for the part, (2) the procurement of 500 assemblies annually, and (3) the application of an inflation factor for future procurements. The record of telephone discussions also showed that Rockwell and RCA discussed \$2,706 as an initial base unit price.

Rockwell did not disclose any information about the long-term purchase agreement to the contracting officer. As a result, Rockwell's proposed material costs were overstated by \$465,253, as shown in table I.8.

Table I.8: Overpricing of Vidicon Tube Assemblies Resulting From			Unit prices			
Nondisclosure of Long-Term Purchase Agreement	Contract buy	Disclosed	Not disclosed	Difference	Quantity	Amount of overpricing
-	Basic	\$3,047.00	\$2,706.00	\$341.00	533	\$181,753
	Option	3,246.00	2,706.00	540.00	525	283,500
	Total					\$465,253

After prime contract award, Rockwell purchased the vidicon tube assemblies for the basic and option buys at average unit prices of \$2,703.24 and \$2,422.77, respectively.

Rockwell and Contracting Officer Views

Rockwell stated that it inadvertently failed to disclose accurate, complete, and current cost or pricing data for the 13 material items. However, Rockwell officials contend that the contracting officer did not rely on its cost or pricing data. Rockwell argues that the contracting officer relied on, or had available, data from Defense Contract Audit Agency audits of Rockwell's major subcontractors and an Air Force evaluation of the company's contract proposal, both of which recommended lower material prices. In addition, Rockwell notes that reductions were made during negotiations to recognize that the increased basic buy quantities would result in lower prices. As a result, Rockwell does not believe the nondisclosures caused the contract price to be overstated.

We disagree with Rockwell's position. Contrary to Rockwell's assertion, the Price Negotiation Memorandum shows that the contracting officer relied on all factual data provided by Rockwell, including the inaccurate, incomplete, and noncurrent data described in this report. In addition, the contracting officer's record of negotiations shows that the Defense

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	Appendix I GBU-15 Material Prices Overstated
	Contract Audit Agency's audit reports on major subcontractor proposals were not used in establishing the Air Force's negotiation objective.
	We agree that the Air Force and Rockwell negotiated a reduced price for the increased basic buy quantities. The reduction, however, amounted to less than \$100,000 and applied to all costs, including labor, material, and overhead. We do not believe it is appropriate to apply the negotiated reduction to the overpricing we found. Moreover, Rockwell had a dis- tinct negotiation advantage because it had more accurate, complete, and current cost or pricing data.
	We discussed the undisclosed cost or pricing data with the Air Force contracting officer, price analyst, and contract negotiator. The con- tracting officer confirmed that Rockwell did not disclose accurate, com- plete, and current cost or pricing data and told us that a different pricing technique would have been considered for negotiating material costs had the data been disclosed.
Objective, Scope, and Methodology	Our objective was to determine whether Rockwell complied with the Truth in Negotiations Act, Public Law 87-653, as amended, in providing accurate, complete, and current cost or pricing data in support of its proposed material prices. We conducted our review at Rockwell Interna- tional Corporation, Missile Systems Division, Duluth, Georgia; Arma- ment Division, Eglin Air Force Base, Florida; Ogden Air Logistic Center, Hill Air Force Base, Utah; and the Defense Contract Administration Ser- vices Plant Representative Office and the Defense Contract Audit Agency resident office located at Rockwell.
	To evaluate Rockwell's proposed material prices, we examined the com- pany's contract price proposals and the bills of material that supported Rockwell's February 3, 1984, Certificate of Current Cost or Pricing Data For 37 selected items with a unit price of over \$100, we examined vari- ous pricing information contained in the company's purchase order, cost analysis, and other files to identify cost and pricing data available to the company before the January 27, 1984, price agreement date and com- pared this data with Rockwell's certified prices.
	In addition, we examined the Air Force's contract files, proposal evalua-

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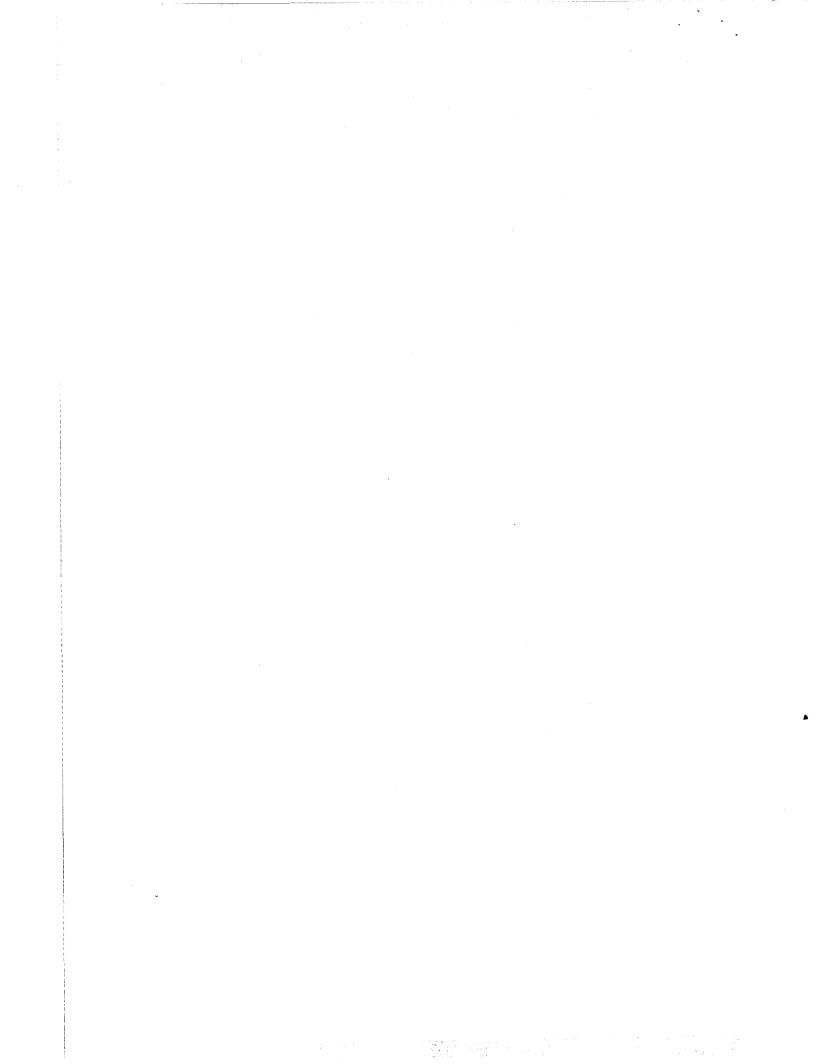
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Our review was performed in accordance with generally accepted government auditing standards between April and November 1988.

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Appendix II Major Contributors to This Report

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