

United States General Accounting Office Report to the Chairman, Subcommittee on Defense, Committee on Appropriations, House of Representatives

June 1989

# MILITARY LOGISTICS

Air Force's Management of Backordered Aircraft Items Needs Improvement





GAO/NSIAD-89-82

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

National Security and International Affairs Division

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June 2, 1989

The Honorable John P. Murtha Chairman, Subcommittee on Defense Committee on Appropriations House of Representatives

Dear Mr. Chairman:

This report, which was prepared at the request of the former Chairman, addresses improvements needed in the Air Force's management of backordered aircraft items.

Copies of the report are being sent to the Chairman, Subcommittee on Defense, Senate Committee on Appropriations; the Chairmen, Senate and House Committees on Armed Services; the Secretaries of Defense and the Air Force; the Director, Office of Management and Budget; and other interested parties.

This report was prepared under the direction of Harry R. Finley, Director, Air Force Issues. Other major contributors are listed in appendix II.

Sincerely yours,

Jank C. Conchan

Frank C. Conahan Assistant Comptroller General

## **Executive Summary**

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Purpose	During 1987 the Air Force had a quarterly average of over 400,000 out- standing orders (backorders) for aircraft spare parts valued at \$7.7 bil- lion. The longer ordered material remains outstanding, the greater the chances are that it will no longer be needed because of changes in cus- tomer requirements. Prompt detection and cancellation of invalid back- orders is essential to avoid unnecessary procurement, repair, and transportation costs. At the request of the Chairman, Subcommittee on Defense, House Com- mittee on Appropriations. One reviewed the Air Ferrer's menodement of
	mittee on Appropriations, GAO reviewed the Air Force's management of backorders for aircraft spare parts. GAO's primary objective was to eval- uate the effectiveness of the Air Force's procedures and practices for detecting and canceling invalid backorders. GAO also evaluated the accu- racy of backorder data used in requirement computations.
Background	Individual Air Force units requisition needed material from retail (base level) supply activities. The retail supply activities maintain stocks of materiels to support their customers and replenish their stocks as neces- sary by requisitioning from the appropriate wholesale supply source— one of the five air logistics centers. A retail supply activity fills a cus- tomer's requisition immediately if sufficient stocks are on hand. If the ordered material is not in stock and is urgently needed by the customer, the retail supply activity sends the requisition to the wholesale supply source, which fills the requisition if stock is available or places it on backorder status pending receipt of additional stock.
	Department of Defense (DOD) policy and Air Force implementing proce- dures require the periodic reconciliation and validation of backorders shown on the records of retail supply activities and wholesale supply sources. Invalid backorders detected by these periodic checks are sup- posed to be canceled promptly.
Results in Brief	GAO's review showed that the Air Force has significant amounts of inva- lid backorders that are not being detected and canceled by periodic vali- dation checks. GAO also found that the Air Force's requirements for aircraft spare parts are overstated because (1) available depot supply level assets are not used to offset requirements for aircraft items pro- cured with stock funds, <sup>1</sup> (2) depot maintenance backorders are included
, , , , , , , , , , , , , , , , , , ,	<sup>1</sup> Aircraft items that cannot be repaired and reused (consumables) are procured with stock funds that are generated from sales to customers.

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	Executive Summary
	twice in requirement computations for aircraft items procured with appropriated funds, <sup>2</sup> and (3) requirements for stock-funded aircraft items are sometimes based on erroneous backorder data. Additionally, GAO found that the Air Force's process for ensuring com- patibility between wholesale and retail level backorder records contin- ues to experience problems. As a result, the Air Force is missing opportunities to cancel invalid backorders.
Principal Findings	
Invalid Backorders Not Detected	At over 200 customer activities located at 9 U.S. and overseas Air Force bases, GAO reviewed the validity of 850 backorders for aircraft items valued at \$18.2 million. GAO found that 332, or 39 percent, of these back- orders, valued at \$5.9 million, were no longer valid, even though records showed they had been periodically revalidated by Air Force activities. The invalid backorders GAO identified included orders for parts to repair equipment that the requisitioner did not have or had already repaired, orders for material in excess of authorization, orders for the wrong item, and duplicate orders. The failure to detect or cancel these invalid back-
Budgeted Buy Requirements Overstated	orders resulted from weaknesses in procedures and practices for peri- odic backorder validation and retail supply computer deficiencies. GAO's analysis showed that the Air Force's fiscal year 1989 requirements for stock-funded aircraft items did not consider \$185.2 million of appli- cable depot supply level assets that were available to satisfy these
	<ul> <li>requirements. As a result, requirements for the affected items were overstated.</li> <li>GAO also found that depot maintenance backorders were included twice in annual computations for procurement of appropriation-funded aircraft items. GAO's analysis indicated that elimination of the duplicate inclusion of these backorders would have resulted in a reduction of \$13.5 million to the Air Force's fiscal year 1989 requirements for aircraft replenishment spares. Elimination of the duplicate inclusion would</li> </ul>
	<sup>2</sup> Aircraft items that can be repaired and reused are procured with funds appropriated annually by the Congress.

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Agency Comments	cerning the need for improvem	AO's findings and recommendations con- ents in the Air Force's procedures and celing invalid backorders. DOD advised
Recommendation		etary of the Air Force take a number of Air Force's management of backorders.
	cancellation of backorders for quarterly backorder validation April 1987, the Air Force indef matic cancellation of backorder puter transmission problems. T automatic cancellation feature validation program has resulte efits. For one quarter alone, GA	menting procedures require automatic which there are no customer responses to requests from air logistics centers. As of finitely suspended its program for auto- rs because of continuing retail level com- the prolonged suspension of the of the Air Force's quarterly backorder ed in the loss of substantial economic ben- to estimates that the Air Force lost oppor- backorders valued at \$71.3 million.
Opportunity to Cancel Invalid Backorders Missed	1987 showed that retail supply tions of invalid backorders, ran \$1,005.2 million. However, Air tics centers canceled only about cancellation rate resulted from mand's automated program for In October 1987 the Air Force of quarter the reported backorder	backorder validations for 1985 through activities requested quarterly cancella- nging in value from \$665.7 million to Force statistics indicated that air logis- at 1 percent of these backorders. This low an error in the Air Force Logistics Com- r compiling backorder validation results. corrected the problem, and the following r validation results showed cancellation of , of the \$648.4 million of invalid back- was requested.
	items are sometimes overstated For example, the fiscal year 19 overstated by \$2.8 million beca	equirements for stock-funded aircraft d because of erroneous backorder data. 989 requirement for an aircraft item was ause the buy computation for this item ckordered units that had been shipped to arlier.
	have reduced updated fiscal ye million and \$14 million, respec	ears 1987 and 1988 requirements by \$70 tively.

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GAO of actions taken or planned by the Air Force to bring about the needed improvements.

DOD did not agree with GAO's recommendations to (1) use available depot supply level assets to offset applicable backordered and forecasted buy requirements for stock-funded aircraft items and (2) eliminate the duplicate inclusion of depot maintenance backorders from budgeted requirements for procurement appropriation-funded aircraft spare parts. DOD's rationale for not accepting GAO's recommendations is contained on pages 45 through 48. After considering DOD's objections, GAO continues to believe that these two recommendations are valid.

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## Abbreviations

AB	Air Base
AFB	Air Force Base
AFLC	Air Force Logistics Command
ALC	Air Logistics Center
DOD	Department of Defense
DOTM	Due-out-to-maintenance
GAO	General Accounting Office
NSN	National Stock Number
PACAF	Pacific Air Forces

# Introduction

Individual Air Force units and organizations performing depot maintenance normally requisition needed equipment, spare parts, and other materials from retail supply activities. The retail supply activities, referred to as base supply at most installations and as depot supply at the five depot maintenance locations, maintain stocks of materials to support their customers and replenish their stocks as necessary by requisitioning from the appropriate wholesale supply source. For Air Forcemanaged materials, the appropriate wholesale supply source is one of the five air logistics centers (ALC) operated by the Air Force Logistics Command (AFLC).

A retail supply activity normally fills a customer's requisition immediately if the ordered part is authorized for stockage and if a sufficient quantity is on hand. If the ordered part is not stocked or is out of stock and urgently needed by the customer, the retail supply activity records a due-out to the customer, sends the requisition to the wholesale supply source, and records a due-in from the supply source. The supply source then fills the requisition if stock is available or places it on backorder status pending receipt of additional stock. The supply source considers the backorder as a materiel obligation, which is defined as the unfilled portion of a requisition that is not immediately available for issue but is recorded as a commitment for future issue.

Because backordered requisitions represent requirements the ALCS either have obligated or will obligate funds to fill, prompt detection and cancellation of invalid orders is important. Cancellation of invalid backorders avoids unnecessary procurement, repair, and transportation. In this regard, Department of Defense (DOD) Manual 4140.17-M prescribes policies and procedures for periodically validating supply source materiel obligations and deleting those that are no longer valid. The purpose of the policy is to (1) ensure, through validation by the actual user, that a continuing need exists for backordered materiel and (2) reconcile supply source materiel obligation (due-out) records with the due-in records of the retail supply activities. The prescribed procedures for conducting this materiel obligation validation process require the following actions by supply sources and retail activities every 3 months.

• Supply sources are required to provide records on their over-aged materiel obligations to the involved retail activities. Materiel obligations, hereinafter referred to as backorders, are considered over-age when high-priority requisitions (priorities 1 through 8) remain unfilled after 30 days and routine requisitions (priorities 9 through 15) are unfilled after 75 days.

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	<ul> <li>Retail activities are required to determine through item-by-item reviews whether a continuing need exists for each backorder referred by the supply source. The guidance warns against perfunctory or cursory reviews and stresses the need to contact the actual user in validating need.</li> <li>After eliminating invalid orders from their records, the retail activities are to reconcile their validated due-in records to the backorder (due-out) records of the supply source and report for each backorder the quantity, if any, that is still a valid requirement.</li> <li>Supply sources are then to adjust their records to agree with those of the retail activities. This can result in backorder records remaining as originally recorded, being reduced in quantity, or being totally canceled. Supply sources are also required to cancel any backorders for which a retail activity provides no response.</li> </ul>
	Air Force manuals and regulations implementing DOD Manual 4140.17-M prescribe procedures that are more stringent than the DOD requirements for backorder validations. For most backorders, customers of base and depot supply activities are required to revalidate the need for the mate- riel on order at least monthly, rather than quarterly as required by DOD. Furthermore, all customer backorders—as opposed to over-age orders only—are subject to validation under Air Force procedures. Addition- ally, backordered requisitions for routine stock replenishment, which are generated by the base and depot supply automated systems, are, in effect, revalidated by the computer system's recomputing requirements each time a supply transaction occurs that might affect the requirement. If no transactions occur, the systems recompute stock replenishment requirements every 90 days. The Air Force requirements for reconcilia- tion of wholesale supply source due-out records with retail level due-in records are the same as DOD requirements. Each quarter the five ALCs request retail supply activities worldwide to validate and reconcile over- age backorders contained in the ALCs' records. During the last quarter of 1987, the ALCs requested validation and reconciliation of 426,243 orders valued at \$7.5 billion.
Objectives, Scope, and Methodology	Our primary objectives were to determine (1) the effectiveness of the procedures and practices for reconciling and validating aged, unfilled orders of materiel (referred to as backorders) and (2) the promptness in canceling backorders on items for which a continuing need no longer

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existed. We also examined

- the propriety and effect of Air Force policy of not considering available depot supply assets in D062 item requirements computations,
- the budgetary effects of overstated backorder quantities on repairable (D041) and consumable (D062) item requirements computations, and
- the effect of the Air Force's suspension of the automatic cancellation feature of its quarterly materiel order reconciliation program.

We conducted our work at four Air Force bases within the United States, three overseas air bases, and two depot maintenance activities. They are as follows:

- United States: Travis Air Force Base (AFB), California; Nellis AFB, Nevada; Holloman AFB, New Mexico; and Eglin AFB, Florida;
- Overseas: Clark Air Base (AB), the Philippines; Kadena AB, Okinawa, Japan; Osan AB, Korea; and
- Depot maintenance: San Antonio ALC, Kelly AFB, Texas; and Warner Robins ALC, Robins AFB, Georgia.

To achieve our objectives, we reviewed DOD and Air Force procedures and practices for validating and reconciling aged, unfilled materiel orders. We interviewed supply and maintenance personnel responsible for implementing the procedures and monitoring their effectiveness, and they assisted us in inspecting inoperable or faulty assets that were cited as the basis for the backorders. We also obtained, reviewed, and analyzed requirements computations, listings of backorders for which a continuing need had been recently certified, and other pertinent documents.

From computerized listings of both D041 procurement appropriationfunded and D062 stock-funded aircraft items, we made a judgmental selection<sup>1</sup> of 441 backorders to verify the accuracy of certification that a continuing need exists and/or the promptness in canceling if the backordered items were no longer needed. The backorders selected consisted of (1) 406 customer backorders from the 9 bases and (2) 35 stock replenishment backorders from the 4 United States bases and the Warner Robins depot maintenance activity. We reviewed stock replenishments to

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<sup>&</sup>lt;sup>1</sup>From current monthly listings of all backorders at the 9 audited locations, we selected the first 50 backorders at each location that met certain criteria. (At one location there were not 50 backorders that met the criteria.) The selection criteria included a mixture of high-priority customer orders and routine stock replenishment orders over 30 days and 75 days old, respectively, for D041 (reparable) and D062 (consumable) aircraft items.

determine if the supply systems were automatically canceling due-in quantities to prevent the authorized stock levels from being exceeded. The value of the customer backorders was \$8,014,781 and the stock replenishment backorders were valued at \$4,253,378, for a total value of \$12,268,159.

During the course of our review, we found that the activities sometimes had placed additional orders for the same parts in our sample backorders, and, when possible, we evaluated the validity of those additional orders. We reviewed a total of 409 additional backorders valued at \$5,979,576. In total, we evaluated the validity of 850 backorders valued at \$18.2 million.

We made our review between April 1987 and March 1988 in accordance with generally accepted government auditing standards.

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## Invalid Backorders Frequently Not Detected or Canceled by Periodic Validation Checks

Our review of 441 sample backorders valued at about \$12.3 million showed that 126 orders totaling about \$2.9 million were not valid requirements. The backorders in our judgmental sample included 406 customer orders (high-priority customer orders submitted to the ALCs because they could not be filled by base and depot retail supply activities) and 35 routine priority orders to replenish stocks at retail supply activities. They involved appropriation-funded repairable spares and stock-funded consumable spare parts, which are managed in AFLC's automated D041 and D062 systems, respectively. Table 2.1 shows the number and value of sample orders reviewed and orders we found to be invalid at each activity visited.

## Table 2.1: Sample Backorders Reviewed and Backorders Found to Be Invalid

	Orders reviewed <sup>a</sup>		Invalid orders		Percent invalid	
Location	No.	Value	No.	Value	No.	Value
Eglin AFB						
D041	35	\$819,376	5	\$41,724	14.3	5.1
D062	15	46,943	4	4,994	26.7	10.6
Nellis AFB						
D041 <sup>b</sup>						
D062	50	108,822	17	18,172	34.0	16.7
Travis AFB						
D041	35	1,382,815	8	84,370	22.9	6.1
D062	15	51,692	6	17,148	40.0	33.2
Holloman AFB						
D041	35	2,468,827	4	34,290	11.4	1.4
D062	15	104,569	8	90,912	53.3	86.9
PACAF bases <sup>c</sup>						
D041	102	980,565	23	229,396	22.5	23.4
D062	46	154,940	8	23,701	17.4	15.3
San Antonio ALC						
D041 <sup>b</sup>						
D062	43	911,500	27	500,406	62.8	54.9
Warner Robins ALC						
D041	35	4,825,492	10	1,758,219	28.6	36.4
D062	15	412,618	6	54,243	40.0	13.1
Subtotal						
D041	242	\$10,477,075	50	\$2,147,999	20.7	20.5
D062	199	1,791,084	76	709,576	38.2	39.6
Total	441	\$12,268,159	126	2,857,575	28.6	23.3

<sup>a</sup>As discussed on page 13, we reviewed 409 additional backorders that are not included in this table because the data obtained were not broken out by D041 and D062 item categories.

<sup>b</sup>D041 items were not reviewed at Nellis AFB and the San Antonio ALC.

<sup>c</sup>The Pacific Air Forces (PACAF) bases we visited were Clark, Kadena, and Osan ABs.

The 126 invalid orders we identified included 121 customer orders that had been previously certified as valid by the retail supply activities and 5 stock replenishment orders. The reasons that we determined the customer orders to be invalid are shown in table 2.2. The five invalid stock replenishment orders are discussed later in this chapter.

### Table 2.2: Reasons Customer Backorders Were Invalid

Reasons	Number of invalid orders	Percent
Ordered materiel to repair equipment that was no longer in need of repair or was not available	64	53
Ordered materiel was in excess of authorization	24	20
Ordered materiel was not supported by documented requirements, current work load, or other evidence	22	18
Miscellaneous (wrong item ordered, duplicate orders, etc.)	11	9
Total	121	100

Each of the 441 sample backorders reviewed was a requisition for a specific item. In many cases, we found the requisitioner had placed additional orders for the same items, and when time schedules permitted, we evaluated the validity of those additional orders. We reviewed a total of 409 additional backorders valued at \$5,979,576 and identified an additional 206 invalid backorders valued at \$3,078,591. In total, we evaluated the validity of 850 backorders valued at \$18.2 million and identified 332 invalid backorders (39 percent) valued at \$5.9 million (32 percent). Air Force officials canceled \$5.2 million of the \$5.9 million of invalid orders after we brought them to their attention. For the remainder, new requirements for the items were identified or it was too late to effect cancellation because the items had either been shipped by the ALC or received by the customers.

Instances in which we found that retail customers had cited a continuing need for backordered materiel, although the backorder was not valid are illustrated by the following examples.

At the Warner Robins ALC depot maintenance activity, a continuing need had been cited for a 391-day-old backorder for two circuit card assemblies (NSN 1280-01-109-3319), valued at \$19,142, that were ordered to replace defective units in two B-52 avionics control units (NSN 1280-01-150-9022, unit price \$132,961.84). We found that the backorder had been invalid since January 1987 when the control units for which they were ordered were misplaced and deleted from the activity's inventory Chapter 2 Invalid Backorders Frequently Not Detected or Canceled by Periodic Validation Checks

records. As a result of our inquiries, this invalid backorder was canceled on September 11, 1987.

- At the Warner Robins ALC depot maintenance activity, a continuing need had been cited for a 335-day-old backorder for two carriage assemblies (NSN 6215-60-006-3164-02LG), valued at \$5,229, that were ordered for repair of a C-130 aircraft's wing flap. We found that the backorder had been invalid since February 1987 when the C-130's wing flap was repaired with carriage assemblies salvaged from other damaged wing flaps that could not be repaired. After our inquiries, this invalid back-order was canceled on September 16, 1987.
- At Kadena AB, an aircraft maintenance unit had cited a continuing need for a 98-day-old backorder for a generator control unit (NSN 6110-01-017-3528), valued at \$6,674.40, to replace a defective one on an AWACS aircraft. The backorder became invalid when the aircraft was subsequently rotated to another base and no additional need could be documented. In addition to the invalid sample backorder, we found that a 218-day-old backorder for the same item was similarly invalid. As a result of our inquiries, the two backordered generator control units, valued at \$13,348.80, were canceled.
- At the Warner Robins ALC depot maintenance activity, a continuing need had been cited for a 556-day-old backorder for five electron tubes (NSN 5960-00-912-1114AY), valued at \$27,012, that were ordered for repair of F-106 aircraft transmitter subassemblies. We found that the back-order had been invalid since February 1987 when the subassemblies requiring repair were transferred to disposal because of the phase-out of the F-106 aircraft. After our inquiries, this invalid backorder was canceled on September 13, 1987.
- At Eglin AFB, an aircraft maintenance squadron had cited a continuing need for a 175-day-old backorder for a pump module assembly (NSN 4320-01-136-2118), valued at \$11,174, that was ordered to repair a UH-60A helicopter. We found that the backorder became invalid when the aircraft was subsequently sent to Fort Rucker, Alabama, for modification and the pump was replaced during the modification. After our inquiries, this invalid backorder was canceled on June 30, 1987.
- At the Warner Robins ALC depot maintenance activity, a continuing need had been cited monthly over a 2-year period for a backordered F-15 test subassembly (NSN 4920-01-141-5794CW), valued at \$183,000. We found that the backorder was invalid since inception because the subassembly was incorrectly ordered to obtain as a spare part a \$5,000 circuit card contained in the subassembly. Also, we found that the requisitioner had a spare subassembly from which a spare circuit card could have been obtained, if needed. The spare subassembly had been in storage and not

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used for about 2 years. After our inquiry, this invalid backorder was canceled on July 22, 1987.

- At the San Antonio ALC depot maintenance activity, a continuing need had been cited for eight backorders, ranging in age from 22 to 107 days old, for 271 F-100 engine housings, valued at \$147,446, that were ordered to replenish the activity's authorized stockage level. We found that backorders for 121 housings valued at \$65,834 were invalid because they caused the authorized stock level to be exceeded. Also, the authorized stock level of 150 units was based on an unsupported special level that was established when the older model of the engine housing was replaced by a newer model. On the basis of past usage for the older model and planned usage of the newer model, a stock level of 17 units was deemed reasonable by maintenance personnel. Thus, we determined that additional backorders of 133 units valued at \$72,363 were also invalid. In response to our inquiries, the 254 invalid backorders valued at \$138,197 were canceled.
- At Osan AB, a continuing need had been cited for a 1,303-day-old backorder for an aircraft radar system microwave counter (NSN 6625-01-109-7876), valued at \$9,183.84. According to the requisitioner, the counter was ordered to replace a spare counter that had been installed in test equipment. We found that the backorder was invalid because there was no authorization or current documented requirement for a spare counter. In addition to the invalid sample backorder, we also found that another backorder for a microwave counter was similarly invalid. Base supply officials agreed with our findings and canceled the two backordered counters, valued at \$18,376.68.
- At Travis AFB, a continuing need had been cited for 2 backorders over 2 years old for 10 aircraft refrigerator doors (NSN 4110-00-007-1741), valued at \$15,290. Although a continuing need was validated monthly over a 2-year period, we found that no original or current need existed. In response to our inquiries, the two invalid backorders were canceled.
- At Holloman AFB, a continuing need had been cited monthly over a 3year period for a backorder for four T-38 aircraft skins (NSN 1560-00-920-8703XE), valued at \$3,854. We found that no requirement existed at the time the order was placed or at the time of our review. We were advised by the requisitioner that the aircraft skins were ordered because at the time there was excess money available. As a result of our inquiries, this invalid backorder was canceled.
- At Clark AB, a customer had cited a continuing need for a 679-day-old backorder for a VHF antenna (NSN 5985-01-179-5377ZX), valued at \$3,739.19, that is used to provide long-range communication with air-craft. We found that the backorder was invalid because the customer could not provide any documentation or other evidence supporting the

original or subsequent need. In addition to the invalid sample backorder, we found that an additional 582-day-old backorder for the same item was similarly invalid. As a result of our findings, the two backordered antennas valued at \$7,478.38 were canceled.

- At Clark AB, a maintenance unit had cited a continuing need for a 378day-old backorder for two F-4 and F-5 aircraft engine oil elements (NSN 6650-01-040-9637), valued at \$902.46. We found that the backorder was invalid because the customer could provide no explanation for the order and no evidence of need. In response to our inquiries, this invalid backorder was canceled.
- At Osan AB, a tactical fighter wing customer had cited a continuing need for a 648-day-old backorder for an air conditioning unit (NSN 4120-00-947-4765), valued at \$6,618. We found that the backorder was invalid because the customer had no documented requirement for the item and could not provide evidence of need. Subsequent to our inquiries, this invalid backorder was canceled. In addition to our invalid sample backorder, we found that four other backorders for four similar air conditioners (NSN 4120-00-147-3734), valued at \$26,480, were invalid for the same reasons. According to the customer's records, two of these backordered air conditioners were received during our audit. However, they could not be located. One of the two remaining backordered units was canceled. The customer was reluctant to cancel the remaining backordered unit because of uncertainty as to whether it might be needed in the future.
- At the San Antonio ALC depot maintenance activity, a continuing need had been cited for a 5-month-old backorder for three display panels (NSN 1680-01-014-2336), valued at \$11,268, that were ordered for repair of A-10A aircraft fuel hydraulic systems. We found that the backorder was invalid because the wrong items were ordered. The requisitioner intended to requisition components of the display panels but instead incorrectly ordered the display panels. In response to our inquiries, the invalid backorder was canceled.
- At Eglin AFB, a tactical fighter wing customer had certified a continuing need for a 201-day-old backorder for a shoulder load (NSN 4920-01-059-3772), valued at \$1,441, to repair a radar frequency load coupler. We found that the backorder was invalid because the wrong item was ordered. The item needed to make the necessary repair was a metal shim, costing \$16. The requisitioner could not explain why he ordered the wrong item or why he did not cancel the invalid backorder during several previous monthly validation cycles. After our inquiries, the invalid backorder was canceled on August 21, 1987.

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	<ul> <li>At Travis AFB, a continuing need had been cited for a 6-month-old back- order for an aircraft left wing flap panel (NSN 1560-00-573-2680JH), val- ued at \$677. We found that the backorder was invalid because it represented a duplicate order. Two orders for a left wing flap panel to repair the same discrepancy were placed on January 2 and 5, 1987. The invalid duplicate backorder was canceled as a result of our inquiry.</li> </ul>
Problems in Detecting and Canceling Invalid Backorders	Invalid customer and stock replenishment backorders we identified had not been detected by periodic Air Force validation checks, or were detected but not canceled. The failure to detect or cancel these invalid backorders resulted from weaknesses in procedures and practices for periodic backorder validation and depot and base retail supply com- puter deficiencies.
Weaknesses in Procedures and Practices	Air Force regulations and implementing procedures require base and depot retail supply activities to validate the continuing need for cus- tomer backordered items on a monthly basis and to promptly cancel those no longer needed. To accomplish this, the base and depot retail supply activities are required to provide their customers with monthly computer-generated listings of their outstanding materiel orders.
	The procedures governing base supply activities require that the monthly listings be accompanied by a letter of transmittal, specifying the validation procedures and stressing the importance of actual contact with the individual who requisitioned the item to ensure a valid need still exists. The procedures governing depot retail supply activities require that the monthly listings contain a validation certification block, which requires the signature of the responsible customer property officer to certify that all of the listed orders have been validated or can- celed, as appropriate.
	The regulations and procedures do not require base and depot retail sup- ply activities to retain control copies of the listings for the purpose of monitoring performance in conducting monthly validation checks. Also, customers are required to return the listings only if cancellations or other changes are to be made.
v	With the exception of the depot maintenance activity at the San Antonio ALC, which we discuss separately later, the base and depot retail supply activities we visited were providing their customers with monthly back-order listings for validation. The transmittal letters accompanying the
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monthly listings sent to base supply customers did not specify validation procedures, but did state that the validation should include actual contact with the individual that requisitioned the backordered item to ensure there is still a valid need. The monthly listings sent to depot supply customers at the Warner Robins ALC contained a validation certification block for signature by the responsible property officer. At the customer organizations we visited, a supply monitor or materiel support unit was responsible for validating backorders included on the monthly listings and canceling backordered items for which a valid need no longer existed.

At each of the customer organizations we visited, the supply monitors and materiel support units were not adequately performing the monthly validations. The majority of the supply monitors and materiel support units did not make actual contact with the customer unit that ordered the materiel to see if a valid need still existed. In many instances they did nothing to validate the backorders because they assumed that all backorders on the monthly listings were still needed. In other instances they simply attempted to reconcile the backorders on the monthly listings with their materiel due-in records. If a corresponding due-in was located, they assumed that a valid need still existed without contacting the customer.

In a number of instances the customer units did not cancel invalid orders identified during the monthly validation process because they felt the backordered items would be needed in the future. Additionally, invalid orders for D062 stock-funded items were not canceled in a number of instances because the customer units were uncertain whether they would receive credit for their obligated funds if the orders were canceled, especially those funded with prior years' moneys. Many of the supply monitors and materiel support units personnel we interviewed stated that they did not fully understand what was required during the monthly validation process and believed that formal training would be helpful.

At the time of our visit, the San Antonio ALC's depot maintenance activity, one of the largest customers of the Air Force's retail supply system, had discontinued using the monthly backorder listings to validate its backordered items. The use of the monthly backorder listing output by the depot retail supply computer was discontinued in July 1987 after the depot maintenance activity installed a new materiel tracking system known as the Exchangeables Production System. This system provided

	Chapter 2 Invalid Backorders Frequen or Canceled by Periodic Val	
· ·	actions and with dire ordering materiel. Ho	ith the capability to record and track its own trans- ct access to the depot retail supply computer for wever, the system procedures did not make provi- idations of backorders, as required by Air Force
	new system provided feel that compliance dations of all backord had verbally instruct continually by review Although the officials verbal instructions, the nel were performing of This activity had the cent) of the activities	At maintenance officials advised us that since the constant status of their backorders, they did not with Air Force regulations requiring monthly vali- lers was essential. However, they stated that they ed maintenance personnel to validate backorders ring data contained in the new maintenance system. Is had no means of monitoring compliance with their ney expressed confidence that maintenance person- continuous validations of backorders as instructed. highest rate of undetected invalid orders (62 per- included in our review, which suggests that the rocess is needed and that compliance with the regu- topriate.
Depot and Base Retail Computer Problems	stock replenishment of below a prescribed re orders become excess tus or decrease in usa	supply system computers automatically generate orders for items when their available assets fall order level. If quantities on stock replenishment to requirements because of a change in asset sta- ge, the system computers are supposed to generate and automatically send them to the managing ALC
	and depot retail supp	ve found a number of instances in which the base ly system computers were not automatically can- plenishment orders as intended.
Depot Computer Problems	Retail Stock Control a parts to support depo- historical maintenance each item needed by a wholesale supply sys vent it from ordering D033 is programmed	bly activities use a system designated as the D033 and Distribution System to maintain stocks of spare t maintenance activities. The D033 system uses e usage data to compute a required stock level for naintenance and then requisitions assets from the tem to satisfy the computed stock levels. To pre- unneeded quantities of any individual item, the to periodically compare the number of assets on its total requirement, which is the computed stock
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	Chapter 2 Invalid Backorders Freque or Canceled by Periodic Va	
	and on-order assets e	ed orders due out to maintenance. When on-hand exceed the requirement, the D033 system is sup- cellation of orders previously placed with the urce.
	not requesting cance source. In our origina valued at \$1,953,236 exceeded requiremen include a total of 50 identified an addition	ner Robins ALC disclosed that the D033 system was llation of all excess orders with the wholesale al sample of seven D033 stock replenishment orders by we found two orders valued at \$1,134,257 that ats. Based on these results, we expanded our test to item stock replenishment orders. The expanded test hal 18 invalid excess orders valued at \$2,150,701. In 0 invalid orders valued at \$3,284,958.
	respond to changes in request cancellation example, in March 19 with the D033 system This should have cau tions with the whole	tristed because the D033 system did not always in requirements that should have caused it to of excess orders with the wholesale source. For 087 the depot maintenance activity canceled orders in for two F-15 aircraft wings valued at \$1,340,804. Used the D033 to request corresponding cancella- sale source, but the two unneeded wings were still of our visit in August 1987.
	received no reports of excess orders. Once a	Varner Robins and AFLC D033 personnel had of the system's failure to request cancellation of elerted, Warner Robins personnel canceled the 20 ntified. Also, in March 1988, they reported the corrective action.
Base Computer Problems	the D033 depot retain tity of assets on hand orders due out to cus ensure that sufficien customers, the system	apply system used at Air Force bases is similar to system in that it periodically compares the quan- d and due in with the total quantity required to fill tomers and to maintain a computed stock level. To t, but not excessive, assets are acquired to support n is supposed to be programmed to place or cancel esale supply source as necessary.
	times does not work replenishment orders of 3 bases that excee	etail system, the standard base supply system some- as intended. Our sample included a total of 28 stock (7 each at 4 bases), and we found 1 order at each ded requirements. The three orders, valued at I because the standard base supply system had
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	Chapter 2 Invalid Backorders Frequently Not Detected or Canceled by Periodic Validation Checks
	failed to cancel excess orders due in from the wholesale supply source. At Holloman AFB, for example, base supply had 1 vertical tip (a T-38 aircraft component) on hand, 23 on order from the wholesale supply source, and a requirement for only 5. Based on these data, the standard base system correctly showed that 19 of the 23 vertical tips due in were excess. However, the system did not cancel the orders for the 19 assets, valued at \$79,321. We found similar cases at Travis and Nellis AFBs.
	Base supply personnel could not determine why the base supply system was not working as intended when we brought the problem to their attention. However, officials at Holloman AFB indicated they would send a deficiency report describing the problem to the Air Force's Standard Systems Center at Gunter AFB, Alabama, so the problem could be studied and corrected.
Conclusions	The Air Force has significant amounts of invalid materiel orders that are not being detected and canceled by monthly validation checks at the base and depot supply levels. This is caused by weaknesses in proce- dures and practices and deficiencies in automated computer programs. During 1987 the Air Force had a quarterly average of 400,000 back- orders for aircraft items valued at \$7.7 billion. On the basis of our review, involving validation checks of a sample of 850 backorders of 212 customers located at 9 United States and overseas Air Force bases, which revealed an invalid backorder dollar rate of 32 percent, we believe the Air Force can save substantial amounts annually by promptly detecting and canceling invalid backorders.
Recommendations	We recommend that the Secretary of the Air Force take the following actions to improve the Air Force's management of backorders:
•	<ul> <li>strengthen existing procedures for monthly backorder validations at the base and depot supply levels by requiring that the accuracy of validated backorder listings be certified in writing by appropriate base and depot supply officials and subjected to independent accuracy checks. Also, require that transmittal letters accompanying the monthly listings of backorders to be validated include detailed validation guidance, and stipulate that the accuracy of the validation responses will be certified by the appropriate base or depot supply officials and will be subjected to independent accuracy checks;</li> </ul>

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	Chapter 2 Invalid Backorders Fre or Canceled by Periodi			
•	backorder validat stand the importa direct that the Sat monthly backorde and ensure that base a automatic cancell	and depot supply pers ion checks are adequ nce of this task; n Antonio ALC depot r er validations in comp and depot supply com ations of excess due-i atisfactorily resolved	ately trained and maintenance active pliance with Air Fo puter problems in in quantities on sto	fully under- ity perform orce regulations; hibiting the
Agency Comments and Our Evaluation	corrective action, Force to strengthe and cancellation of actions taken or p	curred with our find and advised us of act en its procedures and f invalid backorders lanned by the Air Fo f properly implement	tions taken or plar practices for perio (see app. I). We be rce are responsive	aned by the Air odic detection elieve the to our recom-
м.	timely cancellation of exc does not automatically ca	nding concerning a depot reta ress stock replenishment orde ncel excess orders as indicate ystem. We have modified our	rs, DOD stated that the de ed in the report, but rathe	epot retail computer r requests cancella-
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## Annual Budgeted Buys for Aircraft Parts Based on Incorrect Backorder Requirements and Incomplete Asset Data

	The Air Force's annual budgeted buy requirements for stock-funded and procurement appropriation-funded aircraft repair and replacement parts are significantly overstated because
	<ul> <li>available depot supply level assets are not used to offset backordered and forecasted buy requirements for D062 stock-funded aircraft items,</li> <li>due-out-to-maintenance backorders are incorrectly included twice in budgeted buy requirements for D041 procurement appropriation-funded aircraft items, and</li> <li>budgeted buy requirements for some D062 stock-funded aircraft items are sometimes based on erroneous backorder data.</li> </ul>
Depot Supply Level Assets Not Used to Offset Requirements	In October 1984 we reported <sup>1</sup> that the Air Force's duplicate inclusion of depot maintenance requirements in buy computations for D062 stock- funded aircraft spare parts resulted in an estimated excessive inventory investment of \$119 million. We reported that depot maintenance parts requirements, known as depot supply levels, were included in item buy computations both as a separate quantity based on anticipated future usage and as a part of Air Force-wide forecasted needs based on histori- cal usage.
	Although the Air Force and DOD officials agreed that depot maintenance requirements were included twice in buy computations, they did not concur with our recommendation that the duplication be eliminated. They stated that the effect of the duplicate inclusion was offset by the application of available depot supply level assets to satisfy depot supply level requirements.
	Subsequently, in February 1985, the Air Force discontinued the inclu- sion of a separate quantity for depot supply level requirements in buy computations. While this action was consistent with our recommenda- tion, the potential procurement cost savings was negated by a concur- rent action to no longer apply depot supply level assets in computing buy requirements. In eliminating the separate quantity requirement, the Air Force implicitly recognized that depot supply level requirements were included in Air Force-wide forecasted needs based on historical usage. We believe it should also have recognized that available depot supply level assets should continue to be applied to offset forecasted usage requirements in buy computations.
v	<sup>1</sup> Excessive Air Force Inventories Result From Duplicative Spare Parts Requirements (GAO/

<sup>1</sup>Excessive Air Force Inventories Result From Duplicative Spare Parts Requirements (GAO/ NSIAD-85-7, Oct. 25, 1984.)

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To illustrate this point, our review of seven D062 items procured by the San Antonio ALC between October 1986 and December 1987 showed that depot supply level assets valued at \$6.2 million were not used to offset requirements. In each case application of the depot supply level assets would have permitted inventory managers to defer procurement and/or reduce the quantity procured. For example, in August 1987, an inventory manager initiated procurement of 20,844 F-100 engine blades (stock number 2840-00-392-1103PT) estimated to cost \$934,020. The buy quantity was based on a total requirement of 46,758 engine blades offset by 25,914 of the 35,427 blades on hand and on order. The total requirement consisted of a reorder level of 30,358 blades and an economic order quantity of 16,400 blades. The reorder level consisted of a procurement leadtime quantity, a safety level quantity, and a war reserve quantity. The procurement leadtime quantity of 23,814 blades represented future demands, based on the past 24 months usage, of both worldwide Air Forces bases and the local tenanted depot maintenance activity over the time required to procure the engine blades (1,366.65 forecasted monthly demands x 17.425 months procurement leadtime). The procurement leadtime quantity included a depot supply level (maintenance) requirement of 10,857 blades.

The 35,427 blades on hand and on order consisted of 25,914 blades available for Air Force-wide issuance and 9,513 blades reserved for issuance to the tenanted depot maintenance activity (depot supply level assets). In determining whether a buy was warranted, the D062 requirement system compared only the 25,914 blades on hand and on order which were available for Air Force-wide issuance to the reorder level requirement of 30,358 units. The buy quantity of 20,844 units was arrived at by adding the resulting reorder level deficiency of 4,444 blades to the economic order quantity of 16,400 blades (1 year minimum buy x 1,366.65 forecasted monthly demands).

Had the total wholesale inventory of 35,427 blades, including the 9,513 blades reserved for issuance to the tenanted depot maintenance activity been applied to the reorder level quantity of 30,358 blades, the requirement computation would have shown 5,069 blades on hand and on order above the reorder level. Under these circumstances, the procurement would have been deferred for about 4 months (5,069 assets above reorder level divided by 1,366.65 forecasted monthly demands) and the buy quantity reduced from 20,844 to 16,400 engine blades at a procurement cost savings of \$199,136 (4,444 blades x \$44.81 unit price).

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	Our analysis shows that the Air Force's fiscal year 1989 budgeted buy requirements for stock-funded D062 system aircraft items took into con- sideration depot supply level (depot maintenance) requirements valued at \$464.8 million, including \$110.8 million of backordered requirements, but did not consider \$185.2 million of applicable on-hand depot supply level assets that were available to satisfy these requirements. As a result, the Air Force's fiscal year 1989 budgeted buy requirements for the affected individual stock fund items were overstated. The exact amount of the overstatement is unknown because it was not practical to review the thousands of items involved. However, on the basis of the above example, it is believed to be considerable.
Conclusion and Recommendation	The Air Force's annual budgeted buy requirements for D062 stock- funded aircraft spare parts are significantly overstated because require- ment computations do not take into consideration applicable depot sup- ply level (depot maintenance) assets. We recommend that the Secretary of the Air Force direct the Commander, AFLC, to revise the policy for D062 stock-funded aircraft item requirement computations to apply depot supply level assets to applicable requirements.
Agency Comments and Our Evaluation	DOD did not agree with our finding and recommendation concerning the use of depot supply level assets to offset applicable requirements in D062 stock-funded item requirement computations (see app. I). DOD stated that depot supply level assets needed to support future depot maintenance requirements are automatically transferred from the depot wholesale account to the depot retail account. DOD further stated that since the depot supply level assets are owned by the retail system, they are not considered available to offset wholesale requirements. DOD stated that this practice is identical to the treatment of retail assets held at Air Force bases in support of base maintenance needs. We do not agree with DOD's position that depot supply level assets, like retail base maintenance stocks, are not available to offset wholesale requirements. Unlike base maintenance stocks, depot supply level assets have not been issued from wholesale storage and physically moved to a retail location to satisfy current requirements. The computer transfer of these assets to a depot retail account is simply done to insure that a sufficient amount of stock in wholesale storage is reserved to satisfy forecasted depot maintenance requirements. Since wholesale require- ments include forecasted depot maintenance needs and depot supply level assets are being reserved in wholesale storage to satisfy these

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	future needs, it is reasonable to expect that these assets should be used to offset the applicable wholesale requirements. Moreover, the depot, like a retail maintenance operation at an Air Force base, has separate retail stock on hand to meet its retail depot maintenance operations.
	DOD also stated that while depot supply level assets are not considered when computing wholesale requirements, they are considered when requesting funds. Therefore, DOD claimed that our statement that budg- eted buy requirements did not consider on-hand depot supply level assets is incorrect. At a subsequent meeting held to obtain a clarification of DOD's position on this matter, cognizant DOD and Air Force officials acknowledged that the failure to use available depot supply level assets to offset applicable wholesale requirements could result in overstated budgeted buy requirements and excessive stock fund expenditures for the affected individual stock fund items. These officials explained that DOD's original disagreement with our finding was based on a perception that it implied that the Air Force's fiscal year 1989 funding request was overstated by an amount equivalent to the value of depot supply level assets excluded from the computation of wholesale requirements.
Due-Out-To- Maintenance Backorders Included Twice in Budgeted Buy Computations	Due-out-to-maintenance (DOTM) backorders represent aircraft spare parts ordered by depot maintenance activities to replace inoperable parts removed from aircraft and returned to the wholesale supply sys- tem for repair. DOTM backorders are included twice in the computation of budgeted requirements for D041 procurement appropriation-funded air- craft replenishment spares. They are included as a separate DOTM back- order requirement and also as a part of forecasted recurring demands.
	The Air Force's rationale for duplicate inclusion of DOTM backorders in budgeted requirements computations is that they must be shown sepa- rately as an offsetting requirement to unserviceable assets turned in to the wholesale supply source for repair and reissue to prevent an over- statement of available assets. In our opinion, this can be accomplished without including DOTMs twice in the computation.
	In fiscal years 1987 through 1989, the Air Force's budgeted require- ments for aircraft replenishment spares included DOTM backorder requirements valued at \$1.7 billion twice. <sup>2</sup> Our analysis of Air Force budget data showed that \$1.4 billion of the \$1.7 billion duplicated DOTM
	<sup>2</sup> The duplicative DOTM backorders included \$541.6 million in fiscal year 1987, \$334.7 million in fiscal year 1988, and \$834.6 million in fiscal year 1989.

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	backorder requirements will be satisfied through repair of returned inoperable parts (at a repair cost estimated to be 14 percent of procure- ment cost, or \$196 million) and the remainder satisfied from parts already on order or for which planned buys are budgeted. By eliminat- ing the duplicate inclusion of DOTM backorders from requirement compu- tations, the Air Force can avoid substantial unnecessary repair and procurement cost, including planned buys of \$13.5 million, \$14 million, and \$70 million from funds appropriated in fiscal years 1989, 1988, and 1987, respectively.
Conclusion and Recommendation	The Air Force can avoid substantial unnecessary repair and procure- ment costs by eliminating the duplicate inclusion of depot maintenance backorders from requirement computations. We recommend that the Secretary of the Air Force direct the Commander, AFLC, to eliminate the duplicate inclusion of due-out-to-maintenance (DOTM) backorders from annual budget requirement computations for D041 system procurement appropriation-funded aircraft replenishment spares.
Agency Comments and Our Evaluation	DOD did not agree with our finding and recommendation concerning the duplicate inclusion of due-out-to-maintenance (DOTM) backorders in budgeted requirements for DO41 procurement appropriation-funded air- craft replenishment spares (see app. I). DOD acknowledged that DOTM backorder requirements are included in the budget computation both as a separate DOTM requirement and as a part of forecasted recurring demands, but does not agree that this condition represents a duplication resulting in overstated budgeted buy requirements.
	DOD stated that it is necessary to input projected DOTM backorder require- ments as a separate quantity to the budget computation to prevent an overstatement of available assets in the wholesale inventory, which occurs when assets installed in equipment at the retail level (depot maintenance) are returned to the wholesale level for replacement and subsequent repair and no serviceable replacement exists. DOD further commented that projected DOTM backorder requirements must also be included in the budget computation as a part of future recurring demands to cover projected shortages of assets resulting in a DOTM condition.
u u	DOD stated that since the separate DOTM backorder requirement is com- pletely offset by and satisfied through the repair of unserviceable assets returned to the wholesale inventory, no duplication of requirements

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	<ul> <li>impact on budgeted buy requirement through repair of returned assets</li> <li>We do not agree with DOD's positilis backorder requirements in the bur requirement and as a part of future has no impact on budgeted buy ropinion, the singular inclusion of requirement computations, as a provide solution of the singular inclusion of requirement computations mentioned inclusion (i.e., both offsets the regimmediate replacements exist an needed through repair or procure.</li> <li>For example, for the 3-year period budget computation, the Air Ford activities would return \$834.6 m wholesale source for which immediate, unless additional operable procurement. The single inclusion backorder requirement, as a part the fiscal year 1989 budget compreturns and provides for the replication of DOTM backorder requirements on budgeted buy requirements on tioned, Air Force budget data for that \$300 million of the \$1.7 billic requirements will be satisfied from the statement will be satisfied from the statement</li></ul>	a and not through procurement. Ion that inclusion of projected DOTM adget computation as both a separate are recurring demands is necessary and equirements or procurements. In our DOTM backorder requirements in part of forecasted recurring demands, I by DOD as justification for duplicate turn of inoperable parts for which no d provides the replacement assets ement). Dd covered by the fiscal year 1989 ce projected that depot maintenance illion of inoperable aircraft parts to the ediate replacements would not be avail- parts were obtained through repair or n of this \$834.6 million projected DOTM of forecasted recurring demands, in putation both offsets the projected lacement assets needed to cover the its position that the duplicate inclusion in budget computations has no impact r procurements. As previously men- fiscal years 1987 through 1989 show
Overstated Backorder Requirements Used in Stock Fund Budget Computations for D062 Items	the fiscal year 1989 stock fund b backorder requirements may be tations. We found that in two ins overstated by \$10.7 million. As a the two items was inflated by \$1	ch 31, 1987, requirements computation

	Chapter 3 Annual Budgeted Buys for Aircraft Parts Based on Incorrect Backorder Requirements and Incomplete Asset Data
	included backorder requirements for a quantity of 5,627. This computa- tion resulted in a buy deficit for 4,737 cable assemblies valued at \$2,812,546 for which stock funds were to be obligated in fiscal year 1989. We found, and the Warner Robins ALC item manager confirmed, that 5,400 of the backordered cable assemblies valued at $$3,206,196$ had been shipped to the customer several months earlier and should have been deleted from the backorder records before the March 31, 1987, computation. Failure to delete them resulted in an inflated fiscal year 1989 stock fund budgeted requirement of 4,737 cable assemblies valued at $$2,812,546$ . After our inquiries, the erroneous backorder quantity of 5,400 units was deleted from the backorder records. At the Warner Robins ALC, a March 31, 1987, requirements computation for a B-52 item (NSN 5865-00-078-4245EW, unit price $$151.20$ ) included backorder requirements for $55,846$ units. This computation resulted in a buy deficit for $63,868$ units, valued at $$9,656,841$ , for which stock funds were to be obligated in fiscal year 1989. We found, and the Warner Rob- ins ALC item manager confirmed, that the backorder quantity was over- stated by $49,598$ units valued at $$7,499,217$ due to keypunch errors in recording backorders. Failure to correct the errors during the budget review process resulted in an inflated fiscal year 1989 stock fund budg- eted requirement of $49,598$ units valued at $$7,499,217$ .
Conclusion and Recommendation	The Air Force's budgeted buy requirements for D062 stock-funded air- craft items are overstated in some instances because of erroneous back- order data. We recommend that the Secretary of the Air Force direct the Commander, AFLC, to reemphasize to the air logistics centers the need for eliminating backorder data errors from requirement computations for D062 stock-funded items during the budget review process.
Agency Comments and Our Evaluation	DOD concurred with our finding and recommendation concerning the use of overstated backorder requirements in stock fund budget computa- tions. DOD advised us that the Air Force would take the recommended corrective action.

## Overview of Quarterly Materiel Order Validations Between Air Logistics Centers and Retail Supply Activities

In addition to requiring a monthly reconciliation and validation of outstanding materiel orders between retail supply activities and their customers, the Air Force, in conformity with DOD regulations, requires a quarterly reconciliation of aged, unfilled materiel orders shown on the wholesale supply records of the five ALCs and those shown on the retail supply activities records. Quarterly, the five ALCs send to their retail supply customers for reconciliation computerized listings of unfilled high-priority materiel orders 30 or more days old and routine priority materiel orders 75 or more days old. The retail supply activities have 45 days to reconcile their records of outstanding orders with those referred by the ALCs and to return a confirmation or cancellation response for each order to the appropriate ALC. DOD and Air Force regulations require the ALCs to automatically cancel outstanding orders for which there are no customer responses to quarterly reconciliation requests within the 45-day time frame.

The Air Force's quarterly program provides management with an overview of the degree of compatibility between wholesale and retail supply records. If properly monitored, it serves as a valuable tool for alerting management to wholesale or retail logistic system problems. Table 4.1 shows the results, as reported by the Air Force, of quarterly materiel order reconciliations for 1985 through 1987.

#### Chapter 4 Overview of Quarterly Materiel Order Validations Between Air Logistics Centers and Retail Supply Activities

## Table 4.1: Results of Quarterly Reconciliations of Outstanding Orders for 1985 Through 1987

Dollars in thousands 1985 1986 1987 Quarterly average Quarterly average<sup>d</sup> Quarterly average Number Amount Number Amount Number Amount 352,117 \$6,538,474 430,303 1. Orders referred by ALCs for reconciliation \$8,116,352 414,176 \$7,790,577 2. Orders for which retail customers submitted 18,521 1,005,215 19.642 665.742 cancellation responses 27,526 793,208 3. Percent of referred orders for which cancellation was requested (line 2 divided by 4.6 line 1) 5.3 15.4 8.2 6.6 10.2 16,989 15,310 17,905 5,019 4. Orders canceled by ALCs 25,466 6,826 5. Percent of requested cancellations affected (line 4 divided by line 2) 91.7 91.2 92.5 1.5 8 0 33.050<sup>a</sup> 521.625<sup>a</sup> h h 6. Retail customer nonresponses 17.590° 341,180° 7. Percent of referred orders not responded to (line 6 divided by line 1) b b 9.4ª 7.9ª 4.2° 4.4<sup>c</sup> 8. Orders canceled by ALCs due to b b 30.950<sup>a</sup> 4.818<sup>a</sup> 16.898° nonresponse 3.127° 9. Percent of nonresponses resulting in b b cancellation (line 8 divided by line 6) 93.6ª .9ª 96.1° .9°

<sup>a</sup>Average for the first two quarters only. For the last two quarters of 1985 and all of 1986, the Air Force suspended automatic cancellation of orders for which there was no response to reconciliation requests because of transmission problems with newly installed retail level computers.

<sup>b</sup>Not available-see footnote a.

<sup>c</sup>Automatic cancellation of orders due to reconciliation nonresponses was resumed for first quarter only, following an 18-month suspension because of retail level computer transmission problems. Subsequently, automatic cancellation of nonresponses was suspended indefinitely because of a perceived recurrence of problems previously considered to be resolved.

<sup>d</sup>Average for the first three quarters only. Data for the last quarter are not included to prevent a distortion caused by a program change, as explained in the next section.

Table 4.1 shows that although cancellation was affected for over 90 percent of the number of referred orders for which cancellation was requested, only about one percent of the dollar value of such orders was canceled. After we brought this seeming anomaly to the attention of Air Force Headquarters officials in February 1987, their follow-up investigation revealed a decimal point placement error in AFLC's automated program logic for compiling and reporting quarterly materiel order reconciliation results. In October 1987 AFLC corrected this program logic error. Subsequently, for the last quarter of 1987, the reported quarterly materiel order reconciliation results showed that the ALCs affected cancellation of \$280.2 million, or 43.2 percent, of the \$648.4 million of Chapter 4 Overview of Quarterly Materiel Order Validations Between Air Logistics Centers and Retail Supply Activities

materiel orders for which cancellation was requested by retail level customers.

Our analysis showed that unreconcilable differences in outstanding materiel orders for which retail customers request cancellation represent either (1) due-outs at ALCs for which there are no corresponding due-ins on retail supply records or (2) differences caused by retail logistics systems' daily automated stock releveling during intervals between materiel order reconciliation cutoff dates of ALCs and retail supply activities. Due-outs at ALCs for which there are no corresponding due-ins at the retail level occur when the ALCs do not promptly remove from their supply records orders for materiel that has been shipped. As demonstrated by the cable assembly example in chapter 3, this problem can result in inflated budgeted buy requirements. Also, it can result in duplicate shipments of materiel to fill the same order.

The Air Force has indefinitely suspended the automatic cancellation of outstanding materiel orders for which retail level customers do not respond to the requests of the ALCs for quarterly reconciliation. The prolonged suspension (seven of the last eight quarters) of the automatic cancellation feature of the Air Force's quarterly reconciliation program has resulted in the loss of substantial economic benefits and eliminated an important incentive to ensure maximum retail level responses to quarterly materiel order reconciliation requests from the ALCs. The potential loss of economic benefits can be demonstrated by the results of the Air Force's 1987 second quarterly materiel order reconciliation cycle ending June 30, 1987. This was the last quarter that the ALCs collected and reported data on retail customers' nonresponses to materiel order reconciliation requests.

For that quarter, retail customers did not respond to reconciliation requests for 32,932 outstanding orders valued at \$712.7 million. For the 378,264 orders valued at \$7 billion that were responded to, cancellation was affected for 30,175 orders (8 percent) valued at \$723.2 million (10 percent) based on customer requests. Obviously, some portion of the reconciliation requests for which no response was received represented orders for materiel that was not needed and that should have been canceled. However, none of the orders was canceled, even though Air Force policy requires that they all be canceled. Applying to these orders the same rates of cancellation that occurred for orders that were responded to indicates that the Air Force might have lost opportunities to cancel about 2,634 orders (8 percent of 32,932 nonresponse orders) valued at

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	Chapter 4 Overview of Quarterly Materiel Order Validations Between Air Logistics Centers and Retail Supply Activities
	about \$71.3 million (10 percent of \$712.7 million value of nonresponse orders).
Conclusions	The Air Force's process for ensuring compatibility between wholesale and retail level backorder records continues to experience problems, which AFLC needs to resolve. The Air Force's prolonged suspension of the automatic cancellation feature of its quarterly materiel order recon- ciliation program has resulted in the loss of substantial economic bene- fits and eliminated an important incentive to ensure maximum retail level responses to quarterly materiel order reconciliation requests from ALCS.
Agency Comments and Our Evaluation	DOD concurred that the Air Force needs to resolve the continuing prob- lems associated with its quarterly materiel order reconciliation program to achieve substantial economic benefits and ensure maximum retail level response to quarterly reconciliation requests. DOD commented that the Air Force Logistics Command is working to resolve the data trans- mission problems that resulted in the decision to discontinue automatic cancellation of backorders for which requisitioners do not respond to quarterly reconciliation requests from the air logistics centers.
	DOD stated that base processing systems will be upgraded with the Host AUTODIN Message Processing System, which will eliminate operator intervention at base level and afford a direct link between base commu- nication centers and the AUTODIN network. DOD commented further that the upgrade will be implemented as soon as the necessary funding is obtained. Also, DOD stated that the Air Force will resume automatic cancellation of backorders due to nonresponse to quarterly reconcilia- tion requests as soon as the subject base system upgrade is accomplished.

# Comments From the Assistant Secretary of Defense for Production and Logistics

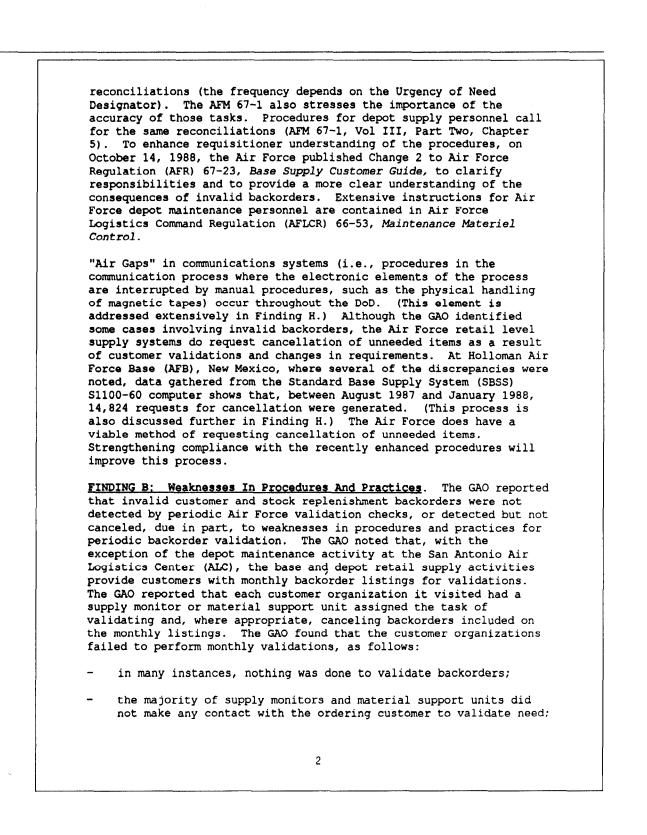
ASSISTANT SECRETARY OF DEFENSE WASHINGTON. D.C. 20301-8000 PRODUCTION AND LOGISTICS DEC R 988 (L/SD) Mr. Frank C. Conahan Assistant Comptroller General National Security and International Affairs Division U.S. General Accounting Office Washington, DC 20548 Dear Mr. Conahan: This is the Department of Defense (DoD) response to the General Accounting Office (GAO) Draft Report, "MILITARY LOGISTICS: Air Force Management of Backordered Aircraft Items Needs Improvement," (GAO Code 392313), OSD Case 7796. The DoD concurs with the general thrust of the report. The Department agrees that there is a continuing need to monitor and validate all open backorders and to take all actions necessary to cancel requisitions for backordered material as soon as it is known that the material is no longer necessary. The DoD does not, however, agree with two of the Findings and the resulting Recommendations relating to (1) the use of depot supply level (i.e., retail level) assets to offset wholesale level requirements and (2) the revision of the method of calculating replenishment spares requirements in the Air Force DO41 system to eliminate a perceived duplication in the method of counting due-out-to-maintenance (DOTM) items. It is the DoD position that the use of retaillevel stocks to fill wholesale-level requirements would generate shortages and ultimately impact readiness. It is also the DoD position that the GAO-perceived duplication in the counting of DOTM items is in error. The detailed DoD comments on the report findings and recommendations are provided in the enclosure. Sincerely, 1. curciliates Merle fic. tag, MG, USA Enclosure Military Deputy

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	GAO DRAFT REPORT DATED OCTOBER 7, 1988 (GAO CODE 392313) OSD CASE 7796
	"MILITARY LOGISTICS: AIR FORCE MANAGEMENT OF BACKORDERED AIRCRAFT ITEMS NEEDS IMPROVEMENT"
	DEPARTMENT OF DEFENSE COMMENTS
	* * * *
	FINDINGS
on pp. 2-3, 12-17, 21.	FINDING A: Invalid Backorders. The GAO reported that, during calendar year 1987, the Air Force had a quarterly average of over 400,000 backorders for secondary items valued at \$7.7 billion. In reviewing the validity of 850 backorders valued at \$18.2 million, the GAO found that 332 (or 39 percent), valued at \$5.9 million, were no longer valid even though they had periodically been certified valid by Air Force activities. The GAO reported that the invalid orders included orders for parts to repair equipment (1) the requisitioner did not have or had already repaired, (3) orders for material in excess of authorization, (2) orders for the wrong item, and (4) duplicate orders. The GAO noted that, when they became aware of the problem, the Air Force requisitioners requested cancellation of \$5.2 million of the \$5.9 million invalid backorders. According to the GAO, the remainder were not cancelled because either it was too late to stop shipment or new requirements were identified. The GAO concluded that the Air Force could save substantial amounts annually in procurement and repair costs by promptly detecting and cancelling invalid backorders. (p. 1, pp. 8-14, p. 21/GAO Draft Report) DOD Response: Concur. It is emphasized that invalid backorders exist because the supply system is a continuous process, which doesn't stop to perform its policing processes such as backorder validation; consequently, there will always be some "invalid" backorders also exist because of (1) human errors, (2) "air gaps" in communications systems, and (3) misunderstandings of procedures.
	Air Force procedures place great emphasis on correctly identifying and requesting cancellation of unneeded items. Air Force Manual (AFM) 67-1, Vol II, Part Two, Chapter 12, requires base supply personnel to perform daily, weekly, monthly, and quarterly backorder
	personnel to perform daily, weekly, monthly, and quarterly backorder

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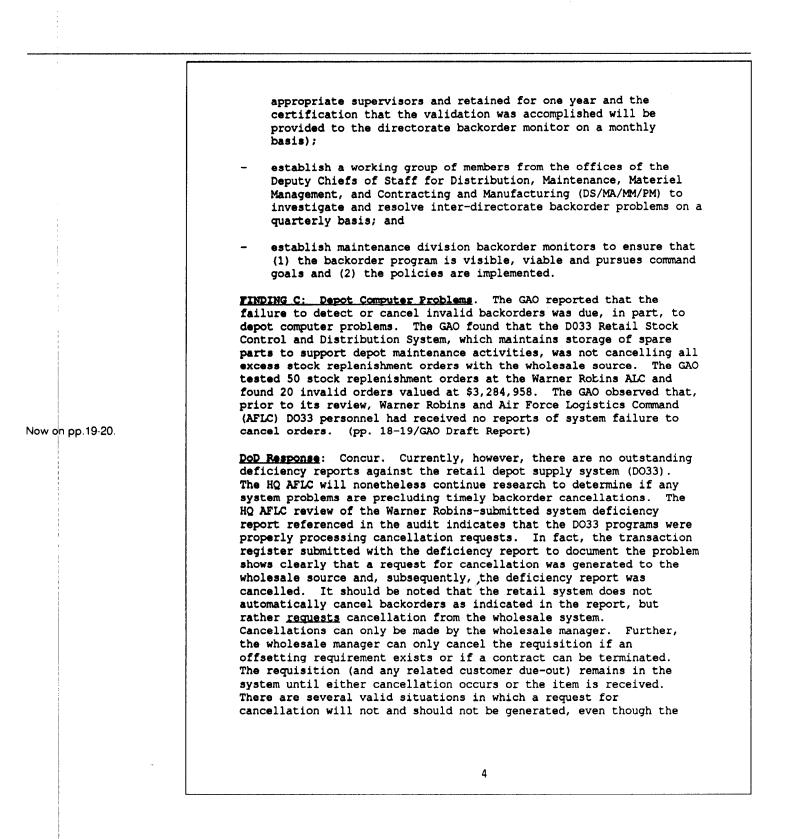
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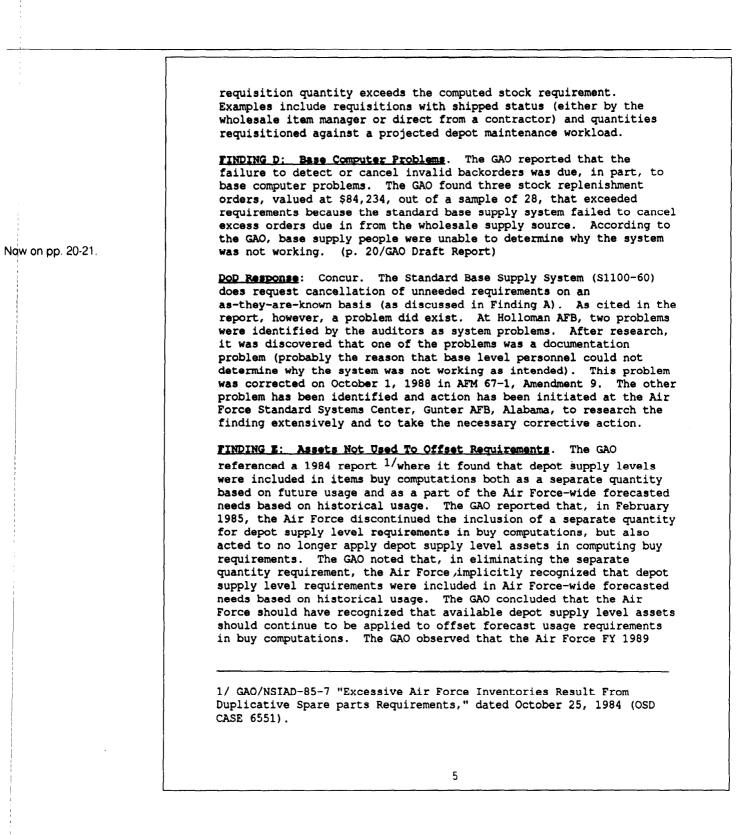
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	<ul> <li>in some instances, monthly backorder listings were reconciled with material due-in records, but not with customers;</li> </ul>
	<ul> <li>in a number of cases, requests for cancellation of invalid orders were not sent by customers because they felt the items would be needed in the future; and</li> </ul>
	<ul> <li>cancellation was not requested on invalid orders for D062 stock-funded items because the customer units were not sure they would receive credit for the funds obligated, especially those funded with prior year money.</li> </ul>
	The GAO reported that many supply monitor and material support unit personnel stated that they did not fully understand what was required during the validation process and believed formal training would be helpful.
ow on pp. 17-19.	The GAO also found that, in July 1987, with the installation of a new material tracking system (the Exchangeables Production System), which provides constant status of backorders, the San Antonio ALC depot maintenance activity discontinued using the monthly backorder listings for validation of backorders. The GAO further found, however, that the system did not provide for monthly validation of backorders, as required by Air Force regulations. The GAO observed that this activity had the highest rate of undetected invalid orders (62 percent). (pp. 14-18/GAO Draft Report)
	<b>DoD Response</b> : Partially concur. The DoD concurs with the importance of periodic validation and timely cancellation of invalid backorders. Although the GAO identified problems in the implementation of established procedures at the San Antonio ALC, the Exchangeables Production System (EPS) does provide for monthly validation of backorders. Procedures for EPS are contained in AFLCR 66-53, Maintenance Materiel Control, which is still in draft form. In March 1988, Headquarters, Air Force Logistics Command (HQ AFLC), directed the air logistics centers to operate under procedures in the draft. This regulation requires maintenance personnel to review and reconcile outstanding backorders on a daily, weekly, and monthly basis. The regulation further strengthens the backorder validation process by requiring maintenance to:
	<ul> <li>notify depot supply of backorders no longer required as soon as the fact becomes known;</li> </ul>
·	<ul> <li>conduct monthly reviews by using the EPS's backorder statistics report to validate backorders and ensure the total of on-hand material and backordered quantities do not exceed total requirements (Note: these listings will be signed by the</li> </ul>

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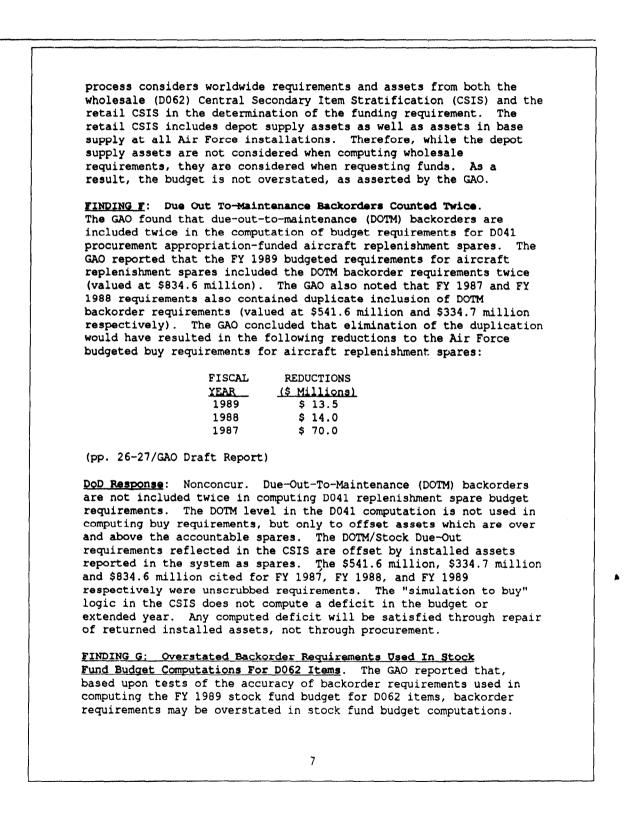
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	budgeted buy requirements for stock-funded D062 system items took
	into consideration depot supply level requirements valued at \$464.8 million, including \$110.8 million of backordered requirements, but
	did not consider \$185.2 million of on-hand depot supply level assets
	available to satisfy requirements; thereby overstating 1989 budgeted
	buy requirements by \$185.2 million. (pp. 23-25/GAO Draft Report)
	DoD Response: Nonconcur. The DoD does not agree that depot supply
	level assets should be used to offset wholesale requirements. Since these are assets that have been automatically "drawn down" from the
	depot wholesale account to the depot retail account by the
	distribution system to support future depot maintenance requirements,
	they are not available for other requirements. The statement
	"available" could apply only in the sense that they are physically
	located in the same storage area. This practice is identical to procedures used to support Air Force bases in that items remain in
	base supply to support base maintenance. Like the depot, base supply
	maintains a retail stock level in anticipation of base maintenance
1	needs. Obviously, these base held assets are not available to offset
	any wholesale requirements. Likewise, neither are the depot assets
	that are held in storage under the same conditions and for the same
	reasons. The finding indicates a need for the Air Force to offer a more explicit understanding of the depot demand concept used in the
	0062 requirements computation. Demands are recorded in the DO62 when
	assets are:
	- recorded as due-out to depot maintenance by the depot retail
	supply account because they are not immediately available for
	issue (this type transaction is recorded as a backorder in the D062);
	- available in depot supply and are issued to depot maintenance
	(requisitions previously backordered are excluded from this count
	by use of a backorder release code); and
-	either issued or backordered to any other customer. (Again the
	backorder release code precludes issues previously backordered
	from the count).
	in summary, assets transferred to the depot supply account <u>do not</u>
	represent demands against the wholesale supply system and are not used along with demands from other customers to forecast worldwide
	requirements.
	•
	The DoD was unable to reconcile the numbers cited for the FY 1989
	budget submission referenced in this finding; however, the statement that budgeted buy requirements did not consider on-hand depot supply
	evel assets is incorrect. The system support stock fund budget
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	ML 010 found has dealers where the backward and an and an and
n pp. 28-29.	The GAO found two instances where the backorder requirements were overstated, inflating the FY 1989 stock fund budgeted requirement by \$10.7 million. (pp. 27-28/GAO Draft Report)
	<u>DoD Response</u> : Concur. While it is correct that the FY 1989 stock fund budget was temporarily overstated in March 1987, the requirements were subsequently corrected. The budget requirements for any fiscal year are stated six times: the first time, twenty-one months before the fiscal year in question, and the last time, six months into the fiscal year. In addition, D062 Stratifications are reviewed quarterly. All required file maintenance actions are accomplished at that time. The D062 inventory management specialist also has the capability to update item computations on a weekly basis. The Warner Robins ALC overstatement of \$7.5 million that was identified in the March 1987 computation was subsequently corrected through file maintenance action and the June 1987 stratification reflected the correct deficit.
n pp. 30-33.	<b>FINDING H: Cuarterly Reconciliations.</b> The GAO reported that, in conformity with DoD regulations, the Air Force, requires a quarterly reconciliation of aged, unfilled material orders between those shown on the wholesale supply records of the five ALCs and the retail supply activity records. The GAO found, however, that while over 90 percent of the referred orders was canceled, due to a decimal point error in the AFLC automated program logic for compiling and reporting quarterly material order reconciliation results. The GAO noted that the Air Force has indefinitely suspended the automatic cancellation of outstanding material orders, where retail customers do not respond to the request of the ALCs for quarterly reconciliation. The GAO found that the prolonged suspension of the reconciliation program (7 of the last 8 quarters) has resulted in the loss of substantial economic benefits and eliminated an important incentive to ensure maximum retail level responses to quarterly material order reconciliation requests, retail customers did not respond to reconciliation requests for 32,932 outstanding orders valued at \$712.7 million. The GAO found that the Air although Air Force policy requires that they all be canceled, none of these orders was canceled. Applying the same rates of cancellation that occurred for orders responded to, the GAO concluded that the Air Force may have lost opportunities to cancel 2,634 orders (8 percent) valued at about \$71.3 million. (pp. 30-34/GAO Draft Report)
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quarterly cycle. The decimal point error in the program logic for compiling quarterly reconciliation results did exist, as identified by the GAO, and has been corrected. The Air Force suspension of cancelling requisitions due to non-response was done in the aftermath of criticism by Air Force bases that valid requirements were being cancelled by the sources of supply. In mid-1985, shortly after the Air Force converted to the S1100-60 computer system (previously the U1050-II), it was identified that a significant number of requisitions were being cancelled (due to non-response) during the MOV cycle. In July 1985, the Standard Systems Center was tasked to investigate the new hardware and determine cause of this problem. After extensive research and meetings with the Information Systems personnel who operate the computer, the Air Force found that there was a lack of understanding by the people involved in the data transmission process. Procedural guidance was lacking in all of the transmission processes from identifying the files containing MOV data to processing of the computer tapes to the AUTODIN network. Step-by-step instructions were given to the standard base supply system (SBSS) stock control personnel. Concluding that all corrective actions had been taken, the Air Force resumed the DoD MOV process for CY 87-1. Again, extensive step-by-step instructions were given to air Force bases (SSC/SMSM message, 2014362 FEB 87) to ensure correct processing. During this time, the Air Force also implemented an additional program check (Q12 program) in the S1100-60 to improve the DoD MOV process. The Air Force also asked each base to tabulate statistical information on the CY 87-1 MOV process. Responses from Air Force bases indicated a significant number of "erroneous" non-response (BS) cancellations were received. The Air Force then suspended creation of MOV "BS" cancellations but complied with the remainder of the DoD MOV program. During the CY 87-2 cycle, the Air Force asked for assistance from the Defense Automatic Addressing System (DAAS) to capture MOV program data transmissions. The results showed that the process was 69.8 percent accurate, with an additional 15.1 percent accuracy because of the Air Force additive measures mentioned above (Q12). During a six month period (October 1986 -July 1987), the Air Force also captured statistics on retail level-generated requests for cancellation action. It found that: 259,626 cancellation requests were forwarded to Air Force sources of supply, 192,240 were forwarded to the Defense Logistics Agency, and 71,023 were forwarded to the General Services Administration. The Air Force concluded that it would be unwise to continue allowing "BS" cancellations because of (1) the daily requests for cancellation action generated by the retail system and (2) the existing "air gap" in the communications system, which was affecting approximately 15-30 percent of MOV actions. The GAO statistics on the CY 87-2 cycle are not considered valid in view of data identified in the USAF/DAAS test. It should also be understood that the Air Force forwards MOV requests to all customers (the Army, the Navy, etc.), and the figures

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in a quarterly MOV report, as well as those cited by the GAO, <u>include</u>
those other customers. The Air Force will lift the suppression of "BS" cancellations when the Host AUTODIN Message Processing System (HAMPS) is implemented (see Recommendation 9).

	RECOMMENDATIONS
Force direct procedures levels by re certified in	<b>ION 1</b> : The GAO recommended that the Secretary of the Air t HQ USAF to take necessary action to strengthen existing for monthly backorder validations at the base and depot equiring that the accuracy of validated listings be n writing by appropriate base and depot officials and b independent sampling accuracy checks. (p. 21/GAO Draft
determination responsibil: backorder va AFR 67-23, is published cl importance of Two, Chapter maintenance validation of will continue validations	Concur. Proper validation of backorders and on of organizational needs is an organizational commander ity. Procedures for daily, monthly and quarterly alidations and certification of those validations are in Base Supply Customer Guide. On 14 October 1988, USAF/LEYS hange 2 to that regulation to further stress the of backorder validations. Both AFM 67-1, Vol. III, Part r 5 (for depot supply) and AFLCR 66-53 (for depot require written certification that the monthly of depot backorders has been accomplished. The Air Force he to emphasize the need for certification of backorder and accuracy checks with documentation to be maintained organization.
Force direct transmittal to be valida the accuracy appropriate certification	<b>ION 2</b> : The GAO recommended that the Secretary of the Air t HQ USAF take necessary action to require that letters, accompanying the monthly listing of backorders ated, include detailed validation guidance, stipulate that y of the validation responses be certified by the base or depot officials, and state that the ons are subject to independent sampling accuracy checks. Oraft Report)
should conta validation a to accuracy	2: Concur. The DoD agrees that transmittal letters ain detailed guidance for accomplishing backorder and that the accuracy of the validations will be subject checks. The Air Force will include that requirement in vision to AFR 67-23, which is anticipated to be issued in
Force direct depot person are adequate	<b>(ON 3:</b> The GAO recommended that the Secretary of the Air HQ USAF to take necessary action to ensure that base and anel responsible for periodic backorder validation checks ely trained and fully understand the importance of this 22/GAO Draft Report)
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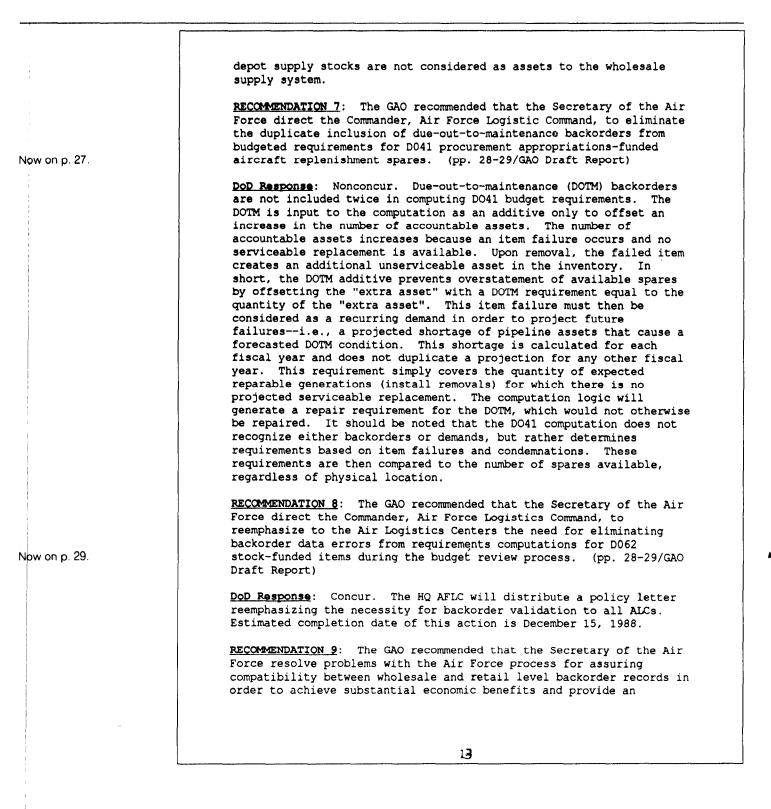
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	<b>DoD Response:</b> Concur. The AFR 50-10, Base Supply Customer Training Regulation outlines procedures for daily, monthly and quarterly validation of backorders by retail supply personnel. In June 1988, a supplement was published to that regulation expanding the requirements for proper and timely backorder validations. Training is accomplished quarterly at base level. The Air Force will also strengthen the guidance in AFR 67-23 in the next revision which is anticipated to be issued in May 1989.
	<b>RECOMMENDATION 4</b> : The GAO recommended that the Secretary of the Air Force direct the Commander, Air Force Logistics Command, to direct that the San Antonio ALC depot maintenance activity perform monthly backorder validations in compliance with Air Force regulations. (p. 22/GAO Draft Report)
	<b>DoD Response</b> : Concur. San Antonio ALC depot maintenance personnel have been advised of the requirement to perform monthly backorder validations in compliance with Air Force regulations. The HQ AFLC Maintenance Directorate will reemphasize to all ALCs the importance of adherence to all regulations pertaining to the monthly validation of backorders. Estimated completion date for distribution of this direction by letter is November 30, 1988.
	<b><u>RECOMMENDATION 5</u></b> : The GAO recommended that the Secretary of the Air Force direct the Commander, Air Force Logistics Command, to assure that base and depot supply computer problems inhibiting the automatic cancellation of excess due-in quantities on stock replenishment orders are satisfactorily resolved. (p. 22/GAO Draft Report)
	<b>DoD Response:</b> Concur. The Air Force will maintain surveillance over computer problems as they are detected. An explanation of how the systems operate (e.g., the retail system does not effect automatic cancellation of backorders) is included in the DoD response to Findings C and D.
on p. 25.	<b>RECOMMENDATION 6</b> : The GAO recommended that the Secretary of the Air Force direct the Commander, Air Force Logistics Command, to revise the policy for D062 stock-funded item requirement computations to apply depot supply level assets to applicable requirements. (pp. 28-29/GAO Draft Report)
	<b>DoD Response</b> : Nonconcur. The DoD does not agree that depot supply level assets, which are owned by the retail system, as are base supply assets, should be applied to offset wholesale requirements. The fact that worldwide assets (retail and wholesale) are applied to worldwide requirements in the determination of the stock fund budget request contradicts the assertion that budgets are overstated because
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important incentive to ensure maximum retail level response to quarterly material order reconciliation requests from the Air Now on p. 33. Logistics Centers. (p. 34/GAO Draft Report) DOD Response: Concur. The HQ AFLC is working to resolve the data transmission problems that resulted in the decision to discontinue automatic cancellation of backorders for non-response during quarterly reconciliation. Action has been taken to accomplish this by implementation of the Host AUTODIN Message Processing System (HAMPS). This system will eliminate operator intervention and affords a direct link between the base communication center and the AUTODIN network. The first phase of this initiative has been funded within the AFLC and the five ALCs will be implemented by March 31, 1989. The HQ AFLC cannot correct the data transmission problems for the entire Air Force, however. The Air Force is attempting to acquire funds for HAMPS for all Air Force bases through the Program Objective Memorandum (POM) process. The HQ USAF sent a letter to all major commands on September 20, 1988, requesting submission of their funding requirements for the HAMPS. This phase, once implemented, will eliminate the operator intervention at base level accounts. Estimated completion date for implementation is unknown at this time. 14

## Appendix II Major Contributors to This Report

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