

United States General Accounting Office

Report to the Chairman, Committee on Armed Services, House of Representatives

December 1989

NAVY SUPPLY

Naval Air Stations Have Inventory Accuracy Problems





GAO/NSIAD-90-45

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

National Security and International Affairs Division

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December 7, 1989

The Honorable Les Aspin Chairman, Committee on Armed Services House of Representatives

Dear Mr. Chairman:

In response to discussions with your office, we reviewed inventory management policies, procedures, and practices at naval air stations. We found that the Navy needs to improve internal controls over air station inventories.

We are sending copies of this report to the Chairmen, Senate Committee on Governmental Affairs, House Committee on Government Operations, Senate Committee on Armed Services, and Senate and House Committees on Appropriations; the Director, Office of Management and Budget; and the Secretaries of Defense and the Navy.

This report was prepared under the direction of Martin Ferber, Director, Navy Issues. Other major contributors are listed in appendix III.

Sincerely yours,

arthur R. Goldbeck for

Frank C. Conahan Assistant Comptroller General

Executive Summary

Purpose	The Congress has been concerned with the military services' inventory management policies, procedures, and practices. Because of the continu- ing congressional interest, particularly that of the House Committee on Armed Services, GAO reviewed such policies, procedures, and practices at naval air stations. GAO evaluated whether (1) air station inventory records were accurate, (2) internal controls for ensuring accuracy were adequate, and (3) reported indicators of the accuracy of inventory records were providing adequate data to managers at higher echelons. The Navy has a total of 37 air stations. GAO conducted detailed audit work at three of the largest air stations and analyzed inventory statis- tics for 10 others.
Background	In fiscal year 1982, the Navy developed an extensive inventory manage- ment improvement program. The Navy introduced over 70 initiatives characterized by frequent field visits, comprehensive training programs, and increased stock point staff resources for physical inventory and quality control. Increased emphasis was placed on improving the accu- racy of inventory records, computer systems, and physical security. As part of these initiatives, inventory management was made a top com- mand priority.
	Inventories of aviation repair parts, general supply items, and conven- tional ammunition at the naval air stations were valued at \$4.4 billion in 1988. To ensure that inventory records accurately reflect the quantity of materials on hand, air stations have established a physical inventory program that includes periodically counting materials and adjusting records when necessary. Air stations also are to establish internal con- trols for appraising physical inventory functions and provide higher management with reports and data on inventory record accuracy.
Results in Brief	GAO found that air station inventory records have a high rate of error. Also, internal controls that would help ensure record accuracy are not in place and key management indicators show a picture of much more accurate inventory records than is the case.

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Principal Findings

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Inventory Records Are Not Accurate	Accurate inventory records are essential. Records showing more materials than are actually on hand can result in critical supply shortages and prolonged delays in filling requisitions. Ultimately, this can affect the readiness of the Navy. Records that show less materials than are on hand can result in excess inventory and unnecessary expenditures for procurement and repair of items. At two air stations, GAO found that 38 percent and 21 percent of the inventory records sampled were in error.
Internal Controls Are Not Adequate	Internal controls are essential to maintaining accurate inventory records. They assist in identifying those human, procedural, or system errors that cause inaccurate inventory records. GAO's work showed that the Navy's system for researching and correcting the causes of inven- tory record errors was not working. The air stations' research was not completed within established time frames. For example, at one air sta- tion, 11 of 16 research cases exceeded the prescribed 45-day deadline. GAO's work also showed that (1) quality control programs for physical inventory functions were not fully implemented and (2) upper manage- ment oversight of the air station inventory management needed improvement. For example, air stations visited by GAO had not estab- lished required quality control groups to independently verify that key inventory functions, such as inventory counts and location surveys, were properly performed.
Additional Indicators Need To Be Evaluated	Management indicators of the accuracy of inventory records can show higher commands where additional attention needs to be placed. The current indicators that the higher commands use give a general, overall view of accuracy but do not reflect all errors in the inventory accuracy rates. For example, by excluding stock items with errors of \$800 or less when calculating inventory accuracy rates, three air stations were able to eliminate 83 percent of their errors. This resulted in a combined error rate of 7 percent rather than the 40 percent that actually existed. As a result, higher commands did not have a complete picture of inventory record inaccuracies or the need for further analysis. The Department of Defense (DOD) now is requiring that inventory effec- tiveness reports provide more data on all inventory record variances.

	Executive Summary
	The Navy also is attempting to improve the accuracy of inventory statis tics by implementing a statistical sampling and analysis computer soft- ware program for stock points having a specified automated supply system. However, statistical sampling programs have not been devel- oped for other stock points.
Recommendations	GAO recommends that the Navy improve internal controls over air sta- tion inventory records, particularly in the areas of researching the causes of errors, implementing an independent quality control program, and overseeing air station inventory practices. GAO also recommends that the Navy implement statistical sampling methods at all air stations.
Agency Comments	DOD partially agreed with GAO's findings and recommendations. How- ever, DOD strongly disagreed with GAO's basic conclusion that inventory record accuracy problems exist at the naval air stations. DOD also dis- agreed that management attention is lacking and that efforts to improve inventory accuracy have failed to produce results. After reevaluating these matters, GAO made changes to the report but continues to believe that the basic conclusion is valid and that additional management improvements are needed.
	In commenting on GAO's recommendations, DOD indicated that a number of corrective actions were planned or underway. These actions include developing approaches to assist activities in performing causative research, ensuring that the air stations fully implement the required independent quality control program, holding workshops that address physical inventory program requirements, and determining if current statistical sampling deployment plans can be accelerated or if alterna- tive sampling programs can be deployed in the interim. DOD's comments are included in appendix II.

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Abbreviations

COMNAVAIRLANT	Commander, Naval Air Force, U.S. Atlantic Fleet
COMNAVAIRPAC	Commander, Naval Air Force, U.S. Pacific Fleet
DOD	Department of Defense
GAO	General Accounting Office
ICE	Inventory Control Effectiveness
MILSTRAP	Military Standard Transaction Reporting and
	Accounting Procedures

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GAO/NSIAD-90-45 Air Station Inventories

Introduction

	In early 1988 the dollar value of the Navy's aviation inventory of repair parts, general supply items, and conventional ammunition at wholesale and user activities was about \$22 billion. The primary shore-based users of these inventories are the 37 naval air stations. They are the custodi- ans of about \$4.4 billion of the \$22 billion total of aviation materials.
	The air stations obtain their materials from the Navy's wholesale supply system—a network of supply centers and inventory control points. For the most part, the aviation inventory control point—the Aviation Sup- ply Office—establishes aviation material requirements, procures needed materials, and determines where to stock materials. The eight naval sup- ply centers receive and store materials for subsequent issuance to the air stations and others. The overall Navy supply system is centrally managed by the Naval Supply Systems Command.
Guidance for Inventory Control	Good inventory control requires precise interplay among a number of diverse functions, including receiving, storing, warehousing, issuing, packing, and shipping. It involves the careful coordination of stock point personnel using a variety of complex computer software and hardware systems. The Navy's inventory system operates under directives from the Department of Defense (DOD) and the more specific policies and pro- cedures of the Naval Supply Systems Command. According to the Navy, this guidance applies to all stock points, including air stations.
	In general, Navy guidance requires that air stations take periodic physi- cal inventories of materials to verify an item's stock number, quantity, location, and condition. When inaccurate records are found, air stations are required to review supply transactions for the causes of the errors. If causes cannot be readily determined, air stations are required to cor- rect, or adjust, their records to the actual count. If the monetary value of an inventory adjustment exceeds a set minimum that varies according to the size of the inventory for each air station, the air station must subsequently review the supply records in depth in an effort to identify and correct the inventory errors and the reasons the errors were made.
	As part of their internal control system, air stations are required to establish a quality control program for location surveys, inventory counts, inventory record adjustments, and inventory error research. This program is designed to achieve better control over stocks and cor- rect problems.

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	The monitoring of air station inventory accuracy and the taking of cor- rective action to improve inventory management are the responsibilities of an air station's higher echelon command—such as the Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT) and the Com- mander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC).
Prior Audits of Supply Management	In fiscal year 1982, the Navy developed an extensive inventory manage- ment improvement program. The Navy introduced over 70 initiatives characterized by frequent field visits, comprehensive training programs and increased stock point staff resources for physical inventory and quality control. Increased emphasis was placed on improving inventory accuracy, computer systems, and physical security. As part of these ini- tiatives, inventory management was made a top command priority.
	Although the Navy has made major improvements in its inventory man- agement program, our reviews of Navy supply management since 1982 identified several problem areas. For example, in our May 1986 report ¹ we identified significant management problems at the Ships Parts Con- trol Center, the Norfolk Naval Supply Center, and the Norfolk Naval Shipyard, especially concerning confirmation of receipts, conduct of physical inventories, reconciliation and research of inventory discrepan- cies, accuracy of records, and physical security. Although we made no recommendations, DOD generally agreed with 10 of the report's 11 find- ings dealing with the Navy.
	In our March 1988 report, ² which assessed some of the problems dis- cussed in our May 1986 report, we stated that the Norfolk Naval Supply Center and the Ships Parts Control Center still had problems maintain- ing accurate inventory records. Further, the report showed that inven- tory accuracy reporting was unreliable, thereby impairing the accuracy of information available to Navy decisionmakers. DOD fully concurred with the recommended corrective actions in that report, including the need to address the issue of physical inventory control in the Navy's next annual assessment of internal controls.
	¹ Inventory Management: Problems in Accountability and Security of DOD Supply Inventories (NSIAD-86-106BR, May 23, 1986).

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²Navy Inventory Management: Inventory Accuracy Problems (NSIAD-88-69, Mar. 4, 1988).

	Chapter 1 Introduction
Objectives, Scope, and Methodology	The Congress has often questioned the military services, including the Navy, about whether their inventory management practices ensure that supply funds are economically and efficiently used and appropriately targeted to best enhance military readiness. Because of the continuing congressional interest in this area, particularly that of the House Com- mittee on Armed Services, we reviewed inventory management by naval air stations, which are the largest shore-based users of aviation materi- als. (See app. I for a detailed breakout of the inventories by air station.)
	We focused these efforts on whether (1) air stations' inventory records were current, complete, and accurate; (2) internal controls for ensuring inventory record accuracy were reliable and adequate; and (3) manage- ment indicators of inventory record accuracy were providing the true extent of record inaccuracies to Navy managers at higher echelons.
	To accomplish these objectives, we conducted detailed audit work at three air stations—the Norfolk Naval Air Station, Norfolk, Virginia; the North Island Naval Air Station, San Diego, California; and the Oceana Naval Air Station, Virginia Beach, Virginia. These air stations accounted for more than 25 percent of the total value of air station aviation inven- tories. In addition, we analyzed reported inventory adjustment rates and other statistics at 10 other air stations.
	At the three air stations visited (Norfolk, North Island, and Oceana), we reviewed DOD, Navy, and local procedures and practices concerning air station inventory management and higher command monitoring and feedback processes. We interviewed the officials responsible for manag- ing Navy aviation material inventories. We also reviewed and analyzed pertinent studies, reports, and statistical data.
8	To assess inventory record accuracy, we reviewed statistical samples of 151 stock numbers at Norfolk, which reported that it generally had not achieved the Navy's inventory adjustment goals, and 134 stock numbers at Oceana, which reported that it had achieved these goals. For each item in the samples at Norfolk and Oceana, we conducted a physical inventory, accompanied by air station inventory personnel. After physically inventorying these items and accounting for receipts and issues in process, we compared our results with the air stations' records. Then, we projected the results of our samples to an estimated population of approximately 49,000 stock numbers at Norfolk and approximately 47,000 stock numbers at Oceana. Our results can be generalized to all

items managed by the concerned air stations with a 95 percent confi- dence level and at a precision rate of plus or minus 8 percent. In addi- tion, we analyzed inventory statistics reported by North Island and 10 other air stations and computed inventory accuracy rates for each. To assess how the three air stations resolved inventory inaccuracies, we examined a total of 50 high dollar value inventory adjustments made during fiscal year 1988 for which the causes of the errors had been iden- tified. We then discussed the inventory adjustments with officials and reviewed research files to determine if prescribed time frames for mak- ing adjustments and completing research were adhered to and if the error causes identified were valid and used in addressing systemic problems. To evaluate inventory management internal controls, we determined how the three air stations resolved inventory inaccuracies and appraised physical inventory functions. In addition, we reviewed the extent of higher command involvement in overseeing air station inven- tory management. To determine whether management indicators depicted the extent of inventory record inaccuracies, we identified key management indicators and analyzed their usefulness and reliability. During our review, we obtained inventory information from the Office of the Secretary of Defense, Washington, D.C.; the Office of the Chief of Naval Operations, Washington, D.C.; the Office of the Commander, Naval Air Force, U.S. Atlantic Fleet, Norfolk, Virginia; the Office of the Commander, Naval Air Force, U.S. Pacific Fleet, San Diego, California; the Naval Supply Systems Command, Washington, D.C.; and the Avia- tion Supply Office, Philadelphia, Pennsylvania. In conducting our work, we used the same computer programs, reports, records, and statistics the Navy uses to manage aviation material inven- tories, make decisions, and determine requirements. We did not indepen- denty determine their reliability. Our review was made in accordance with generally accepted govern- ment auditin	Chapter 1 Introduction
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Inventory Records Are Not Accurate

	Our analysis of inventory data for 13 air stations and our statistical samples at 2 of these air stations showed that a large portion of the inventory records were wrong. Records showing more materials than are actually on hand can result in critical supply shortages and pro- longed delays in filling requisitions. They also can result in fraud and theft going undetected. Records showing less materials than are on hand can result in excess inventory and unnecessary expenditures for pro- curement and repair of items.
Magnitude of Errors Is Large	The Navy has adopted various management indicators of inventory accuracy. According to the fleet commands, two of the key management indicators of inventory record accuracy are the record adjustment rate and the monetary adjustment rate. The Navy computes two record accu- racy rates. The first, the initial records accuracy rate, compares the total number of records with errors to the total number of records inventoried. The second, the record adjustment rate, eliminates from the computation those records for which the adjustment amount was less than \$800. The monetary adjustment rate compares the total dollar value of the stock items inventoried with the dollar value of the adjust- ments made to bring the inventory records in conformance with the physical counts. However, DOD and Navy policy allow activities to exclude the dollar value of those adjustments that were later reversed, because research determined the cause of the error, from computation of the monetary adjustment rate. In other words, the total dollar value of adjustments reported in any one period is offset by the dollar value of reversed adjustments in that period. Although allowed by DOD and Navy policy, the reversal of monetary adjustments tends to understate total imbalances in the inventory records. Table 2.1 shows the effect of eliminating inventory adjustment reversals in computing the monetary adjustment rate. The dollar values of fiscal year 1988 reversed adjustments for Norfolk, North Island, and Oceana were \$20.5 million, \$36.2 million, and \$6.5 million, respectively. When these are added to the reported adjustments and the monetary adjustment rate is recomputed, the rate significantly increases.

Chapter 2 Inventory Records Are Not Accurate

Table 2.1: Effect of Eliminating Inventory Adjustment Reversals in Computing the Monetary Adjustment Rate

Dollars in millions

Air station	Fiscal year 1988				
	Inventories conducted	Reported adjustments	Actual adjustments	Reported rate (percent)	Recomputed rate (percent)
Norfolk	\$153.0	\$2.1	\$22.6	1.4	14.8
North Island	184.2	9.4	45.6	5.1	24.8
Oceana	193.2	1,8	8.3	0.9	4.3
Total	\$530.4	\$13.3	\$76.5	2.5	14.4

DOD recognizes that gross adjustments combined with reversals measures the total turbulence (i.e., imbalances) in the inventory records. Its August 31, 1989, change to the Military Standard Transaction Reporting and Accounting Procedures (MILSTRAP) manual, which revises the chapter dealing with physical inventory controls, adds this measure to those already used by DOD, e.g., gross monetary adjustment rate, major variance rate, survey accuracy rate, and reconciliation accuracy rate. DOD calls this the total record imbalances rate and defines it as the ratio of gross adjustments and total reversals (total imbalances) to (1) average value of the inventory and (2) value of the items inventoried. Usually, the value of the items inventoried is much less than the average inventory value. When used with the other measures, the total record imbalances rate will give inventory managers additional information to assess the accuracy of their inventory records.

To identify the total turbulence in the inventory records, we computed two unadjusted inventory accuracy rates for the 13 air stations. (See table 2.2.) These included the initial records accuracy rate used by the Navy before adjusting for the less than \$800 variances and the total imbalances rate, which is the monetary adjustment rate without offsetting gross adjustments by reversals.

Table 2.2: Unadjusted Inventory Accuracy Rates at Selected Air Stations for Fiscal Years 1987 and 1988^a

Figures in percent				
	Initial record rat		Total imbalances rate ^b	
Command/air station	1987	1988	1987	1988
Atlantic Fleet:	······			
Brunswick	96.4	86.8	0.6	5.5
Cecil Field	86.6	90.4	0.6	0.7
Jacksonville	87.9	91.0	4.8	0.8
Key West	73.7	75.0	18.5	13.4
Norfolk	44.1	51.2	30.2	14.8
Oceana	63.3	61.6	3.1	4.3
Pacific Fleet:				-m
Alameda	87.2	88.4	0.8	0.9
Barbers Point	32.3	(°)	147.6	('
Lemoore	80.0	83.3	4.0	1.7
Miramar	72.5	68.1	4.8	6.9
Moffett Field	87.0	85.0	1.2	4.8
North Island	57.1	62.4	13.8	24.8
Whidbey Island	87.5	87.5	2.1	2.0

^aComputed rates are based on air stations' quarterly inventory reports for fiscal years 1987 and 1988.

^bThis is the ratio of monetary adjustments plus reversals to the value of items inventoried.

^cInventory data for Barbers Point were not computed because the air station's computer input data were erroneous.

Our physical inventory of 285 randomly selected aviation repairables and consumables at the Norfolk and Oceana air stations showed that 86 of the inventory records were in error. The erroneous records included overages or shortages, and the discrepancies ranged from small quantity variances or unit costs to large quantity variances or unit costs. From these statistical samples, we project that, at the time of our audit, 38 percent of the inventory records at Norfolk were in error and 21 percent at Oceana were in error, which equates to 62 percent and 79 percent accuracy rates, respectively.

On the basis of these error rates, we estimate that approximately 19,000 inventory records at Norfolk require adjustments and approximately 9,900 inventory records at Oceana require adjustments. The value of the gross adjustments (overages and shortages not offset by reversals) at these locations is estimated to be approximately \$79.7 million and \$7.6 million, respectively. The projected dollar adjustments produce a total imbalance rate of 33.6 percent at Norfolk and 2.9 percent at Oceana.

To identify the reasons for the differences between the inventory records and our physical counts, we asked Norfolk and Oceana officials to research transaction histories for the 86 erroneous inventory records found in our samples. As shown in table 2.3, after researching the records, the air stations could not identify the causes of most errors.

Table 2.3: Results of Norfolk and Oceana Research on the Causes of Inaccuracies

	Record inaccuracies		
Research result	Norfolk	Oceana	
Cause not identified	54	28	
Receipt not properly posted	2	0	
Change notice not properly posted	1	0	
Difference in unit package counts	1	0	
Total	58	28	

The following two examples illustrate the inventory record inaccuracies for one case that could be explained and one case that could not be explained.

- Norfolk's stock records showed an on-hand quantity of 11 temperature indicators (NSN-6685-00-603-3913) costing \$293 each. This item is used on some helicopters and fixed-wing aircraft. We counted 13 indicators, or 2 more than shown in the records. Air station research efforts indicated that a receipt document for two indicators had not been properly entered into the computer; thus, the record quantity had not been increased even though the items were placed in storage.
- Oceana's stock records showed an on-hand quantity of 28 stator turbine seals (NSN-2840-01-154-1129) costing \$760 each. This item is used on the jet engine of an A-6 aircraft and is critical to the aircraft's mission. We counted 20 seals, or 8 less than the records showed. Air station research efforts could not explain the loss.

Norfolk and Oceana officials said there were two possible reasons why their research did not identify the causes of most errors. First, Navy regulations limit causative research to only those inventory transactions that occurred in the most recent year; therefore, the causes of errors introduced to the inventory records by transactions more than a year old would not be discovered during causative research efforts. Second, many low-value items in our samples may not have been inventoried for several years prior to our count. Contrary to Naval Supply Systems Command instructions that require that all items be inventoried periodically, Norfolk and Oceana attempt to reduce their physical inventory

	Chapter 2 Inventory Records Are Not Accurate
	work load by limiting inventories of low-value items. Oceana, for exam- ple, only inventories low-value items that have had at least two issues in the past year.
Conclusions	Our analysis of inventory data for 13 air stations and our statistical samples at 2 of these air stations show that a large portion of the inven- tory records are wrong. The initial records accuracy rate and the total imbalances rate are preliminary management indicators of the total tur- bulence in the inventory records and, along with DOD's other measures, should be considered by inventory managers in assessing the accuracy of their inventory records. The causes of these inventory accuracy prob- lems and our recommended corrective actions are discussed in the fol- lowing chapters.
Agency Comments and Our Evaluation	DOD did not agree that a large portion of the air stations' inventory records were wrong or that inventory accuracy problems were signifi- cant. In addition, DOD stated that none of the data in table 2.2 (previ- ously 2.1) was correct and a 10 percent record adjustment goal that we used to compare with our sample results did not exist. DOD's overriding concern was that we have developed our own measures of inventory record accuracy that lack proper perspective and therefore are mislead- ing. According to DOD, the preponderance of errors in our samples were minor and, therefore, to put a proper perspective on the sample results, we should include the following table.

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Stratification of the Combined Results Of the GAO Samples

		R	ECORDS	وحلكم جبيبو الالبية بويي ونياة فلحد يبري يؤكوا بتجري فيتها	DOLLARS	بسب محدد نبروا محدد بذبل واللا ظوار خوارد خاور مرابع بال
St	rata	NO.	% of Total	<u>Cum, Var.</u>	<pre>% of Total</pre>	<u>Mean Var.</u>
	\$0	199	69.8%	\$0.00	0.00%	\$0.00
<	\$1	214	75.0%	\$5.92	0.004%	\$0.39
<	\$25	239	83.9%	\$286.48	0.2%	\$7.16
<	\$100	260	91.2%	\$1,387.08	0.9%	\$22.73
<	\$800	275	96.5%	\$5,938.03	4.1%	\$78.13
>	\$800	10	3.5%	\$138,026.18	<u>95.9%</u>	\$13,802.62
То	tals	285	100.0% \$	\$143,964.21	100.0%	

Further, DOD contends that additional sampling would be in order before taking management action.

We agree that the initial records accuracy rate and the total imbalances rate should not be used as the sole basis for management actions, and we have revised the report to clarify this point. These measures are initial indications of records accuracy problems and should be used in conjunction with other inventory accuracy measures, such as location surveys and reconciliations, to determine the extent of analysis that needs to be done. We have consistently maintained that inventory managers should first look at the total turbulence in the inventory records, and we have defined this to include all record errors when computing initial records accuracy rates and all gross adjustments (adjustments not offset by reversals) when computing monetary adjustment rates.

Although DOD has criticized us in this and past reports for using these measures, it plans to adopt them as part of the reporting requirement for the Inventory Control Effectiveness (ICE) Report, which is prepared quarterly and annually and contains data on the military services' and the Defense Logistics Agency's inventories. In its August 31, 1989, change to chapter 7 of the MILSTRAP manual, DOD requires inventory activities to report (1) the percentage of items inventoried that had an inventory variance (inventory variance rate) and (2) the total record imbalances (total adjustments plus total reversals) as a percentage of

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the average value of inventory and the value of items inventoried. These rates will become part of the ICE report.

DOD is correct that the data in table 2.1 of the draft report did not accurately depict the record adjustment and the monetary adjustment rates as defined by DOD. We now more accurately identify the measures we discuss in the report and the data we present in the table. The computational errors that DOD refers to in its comments were limited to three locations and have been corrected in the revised table. The rates we computed and have now more accurately identified are not the same as those used by the Navy and, therefore, DOD's comments on our comparison of the record adjustment and the monetary adjustment rates in the draft report with Navy inventory accuracy goals are appropriate.

In disagreeing with our finding that a large portion of the inventory records were wrong, DOD contends that our statement lacked perspective and was therefore misleading. DOD pointed out that its table showed that 96.5 percent of the records either were correct or contained only minor variances and that only 10 of the records had major variances. We believe DOD's analysis corroborates our finding. Its table shows that 30.2 percent of the combined inventory records for Norfolk and Oceana were wrong. Comparing this rate to our sample results for Norfolk and Oceana—38 and 21 percent, respectively—and the range of error rates (100 percent less the initial records accuracy rate) in table 2.2, which for 1988 run as high as 48.8 percent, initially indicates that the air stations' inventory records are inaccurate. Additionally, the total record imbalances rates in table 2.2, which for 1988 run as high as 24.8 percent, initially indicate that there are problems in the air stations' records.

We recognize, as DOD points out in its comments, that a small number of the erroneous records in our sample accounted for a large portion of the dollar discrepancies we found. We computed the initial records accuracy rate and the total imbalances rate because they would quickly provide information on the total turbulence in the records. We did not stratify our sample by unit cost or item characteristic, as the Navy does, because it would have required a more complex sample design and extended the audit. We developed a sample design that would provide a snapshot of total record imbalances at a point in time. The fact that 12 percent of the erroneous records accounted for 96 percent of the dollar discrepancies is not inconsistent with the fact that usually a small number of inventory items (high dollar unit cost) account for most of the inventory's dollar value. Further, our methodology is not inconsistent with what DOD intends to use and, as we pointed out in the report, it does î

provide a basis upon which DOD can determine if more detailed analysis is required.

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Internal Controls Do Not Ensure Inventory Record Accuracy

	Internal controls are an essential element to ensure effective inventory record accuracy. They assist in identifying those human, procedural, or system errors that adversely affect inventory record accuracy. We found problems with inventory management internal controls at the activities we visited. Specifically, we found that
	 research to identify and correct inventory record errors was not completed within established time frames, quality control programs for physical inventory functions were not fully implemented, and command oversight of air station inventory management could be
	improved.
	Without effective internal controls, air station management can be una- ware of inaccuracies in the inventory records and the problems causing these inaccuracies. Also, internal controls inhibit the occurrence of waste, fraud, and abuse. The internal control problems we found demon- strate that inventory management should continue to receive special emphasis in future Financial Integrity Act assessments.
Error Research Is Not Completed Within Established Time Frames	Navy inventory guidance states that two types of research to correct inventory record errors should take place—preadjustment and causa- tive. Preadjustment research is done in an effort to avoid having to make an inventory adjustment, such as when the difference between a physical inventory count and inventory record is due to routine receipts and issues in process. Causative research is done after inventory records have been adjusted in order to preclude the recurrence of inventory rec- ord errors.
	We found that error research was not always done within established time frames at the air stations visited. Preadjustment research is to be completed within 15 days from the date of an unscheduled inventory and within 30 days from the date of a scheduled inventory. Causative research is to be completed within 45 days after an inventory record has been adjusted. These times are set in an effort to increase the likelihood of determining why an inventory record error occurred. DOD recognizes that, by its nature, causative research is a difficult and labor intensive task that becomes more difficult and less productive with the passage of time.
¥	Our analysis of a total of 50 research cases involving both preadjust- ment and causative research at the Norfolk, North Island, and Oceana

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Chapter 3				
Internal Controls	Do	Not	Ensure	Inventory
Record Accuracy				

air stations showed that Norfolk and North Island were generally completing their preadjustment research within the prescribed times while Oceana was not meeting the preadjustment research deadlines. Our sample of 18 cases at Oceana revealed that preadjustment research exceeded the allowed time frames in 12 cases and ranged up to 240 days.

Oceana officials said preadjustment research delays were partly due to the lack of an automated inventory reconciliation program that exists at other air stations. The air stations that are equipped with this program, such as Norfolk and North Island, generally cannot delay their preadjustment research because the program automatically reconciles stock counts and inventory record balances for inventory transactions that occur between the scheduled date of an inventory and the count date. At Oceana, such differences have to be manually researched based on available research time and value of potential inventory adjustments.

We found that North Island completed causative research within the 45day standard and that research averaged 15 days. Norfolk and Oceana generally were not completing causative research within the prescribed 45-day time frame. At Norfolk, 11 of the 16 research cases reviewed exceeded the deadline. Research times averaged over 67 days with nine cases being completed in less than 90 days and two in more. At Oceana, research times exceeded the deadline for 11 of the 18 research cases reviewed. Oceana's research times averaged over 127 days and ranged from 5 to 272 days. In commenting on our draft report, DOD stated that a wall-to-wall inventory of over 10,000 items had precluded Oceana from meeting the 45-day target date. However, we noted that the wall-to-wall inventory was completed over one year before our field work began and that 15 of the 18 research cases had been inventoried subsequent to the time frame of the wall-to-wall inventory.

According to air station officials, causative research is done beyond the allowed time frame because the original inventory adjustment can be reversed when research finds a reason for an inventory record error; therefore, the monetary adjustment rate can be improved because gross adjustments are reduced by reversals. From the air stations' point of view, this may be a good way to make inventory record accuracy look better, but, as stated in DOD physical inventory guidance, extending the time frame unnecessarily compounds the scope of the research effort and decreases the likelihood of finding the causes of the errors. New supply transactions occur each day, thus increasing the volume of transactions that must be researched.

	Chapter 3 Internal Controls Do Not Ensure Inventory Record Accuracy
Quality Control Program Is Not Fully Implemented	To help ensure the integrity of the physical inventory program, Navy guidance (NAVSUPINST 4440.184) requires air stations to implement a quality control program. This program should verify that key inventory functions are performed properly and identify trends and problems in
mplemented	achieving better control over stocks. The key inventory functions required by the Navy are
	 location surveys, which are inspections of storage locations to verify the accuracy of recorded stock locations; inventory counts, which are physical counts of materials on hand to verify the accuracy of recorded stock quantities; record adjustments, which are bookkeeping entries made to bring the inventory records in balance with the physical counts; and causative research, which is the review of inventory record transactions in order to identify and help to prevent the recurrence of inventory record errors.
	As part of the quality control program, Navy guidance requires that an air station establish or designate an organizational element independent from physical inventory operations to perform program oversight and to validate that the physical inventory functions are performed properly. We found that quality control programs at the air stations we visited were not fully implemented.
	The Norfolk air station did not have a quality control group to perform required independent validations. Supply department personnel made checks of location surveys and causative research investigations as a collateral duty. However, the causative research checks were limited to determining if all required documents were included in research files and were organized properly. They did not determine if the causes for the errors had been corrected.
	Oceana established a quality control program in February 1988, but ini- tially quality control checks were only performed by personnel directly responsible for the physical inventory functions. Subsequently, Oceana established an independent quality control group, but we found that its review was not being conducted as prescribed. The checks of location surveys and physical inventory counts only consisted of separate sam- ples and did not validate the accuracy of work performed under the physical inventory program.

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1	Chapter 3 Internal Controls Do Not Ensure Inventory Record Accuracy
	Also, the checks of inventory adjustments and causative research inves- tigations did not independently validate these functions but merely con- sisted of cursory checks on the contents and organization of each research file. At the completion of our field work, Oceana was drafting a new instruction intended to correct these problems and properly imple- ment the four quality control checks in the prescribed manner.
	North Island was performing quality control checks of location surveys, inventory counts, record adjustments, and causative research but not independently. The first line supervisor of the inventory section was performing the quality control checks. According to North Island officials, these checks were previously performed by quality assurance personnel who were independent of the sections checked. The officials said that the previous method was more appropriate not only because of the perceived lack of objectivity resulting from a supervisor performing quality control checks on his own functional area of responsibility but also because the supervisor cannot properly perform his regular duties due to the time spent on quality control checks.
	North Island officials said they assigned the responsibility for these checks to the first line supervisor because of a change in Navy quality control guidance. Naval Supply Systems Command officials said that North Island misinterpreted the change and that independent quality control checks still were required. The change requires that first line supervisors make quality control checks in addition to checks to be per- formed by an independent quality control group.
Command Oversight Can Be Improved	Air stations' commands are responsible for monitoring air station inven- tory record accuracy and for taking corrective action to improve inven- tory management. For example, COMNAVAIRLANT has inventory oversight responsibility for Atlantic Fleet air stations while COMNAVAIRPAC oversees inventory management of Pacific Fleet air stations. We found that com- mand oversight could be improved.
ř	In addition to monitoring other operational aspects of the air stations' operations, fleet commands monitor some of the key management indicators of inventory record accuracy. COMNAVAIRLANT officials said they limited their monitoring of records accuracy to reviews of air stations' quarterly inventory reports, especially the record adjustment and the monetary adjustment rates. These monitoring efforts, however, are not documented, and trend analyses of reported inventory adjustment rates are not performed. We found very little correspondence or other

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evidence showing that any questions had been raised concerning air station inventory management, such as questioning situations where there were wide fluctuations in quarterly adjustment rates.

COMNAVAIRPAC's inventory record accuracy monitoring was limited to reviewing reported monetary adjustment rates because officials believed the monetary adjustment rate was the most realistic inventory accuracy indicator for the air stations. The results of their monitoring were well documented and included records of discussion with air station personnel and computer-based trend analyses. However, we found no evidence that corrective actions were directed or taken when the indicators showed that improvements were needed.

As a primary oversight practice, fleet commands periodically test air station inventory record accuracy during their supply management inspections. According to command officials, Atlantic Fleet air stations are inspected every 24 months and Pacific Fleet air stations are inspected every 18 months. These inspections generally consist of checking inventory counts to stock record quantities for a small group of items. The most recent inspections at Norfolk and Oceana showed that 20 and 15 percent, respectively, of the records were inaccurate.

The commands had not initiated corrective action as a result of the causative research information provided them. The Naval Supply Systems Command has established 34 standard codes for classifying and reporting causes of inventory record errors to help correct inventory problems. Our tests showed that the air stations could not identify the causes of most inventory errors. In cases when the causes were identified, the air stations grouped most of the errors into a few error classification codes when reporting to the higher commands. For example, we found that causes of errors that were identified for 13 of the 16 cases reviewed at North Island were reported by the air station under a single standard category—"inventory control, document not posted/incomplete" (code 1).

This reporting may be in accordance with the classification system since DOD's comments on our draft report state that the codes provide a sufficiently specific range of error classifications. However, our examination revealed that, under category code 1, seven different types of inventory record errors were actually identified by air station officials, as shown in table 3.1.

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Table 3.1: North Island Error CausesReported as "Inventory Control,	Identified causes Case
Document Not Posted/incomplete"	Condition code change posted twice
	Transaction not posted to proper stock number
	Maintenance transfers not properly posted
	Issue document not generated
	Erroneous receipt posted to record
	Purpose code change not processed
	Item incorrectly posted as ready for issue
	Our discussions with air station officials about 34 additional research cases at Norfolk and Oceana indicated that these air stations also were combining the causes of inventory record errors into a few error classifi cation codes.
	The codes and related statistical data are reported quarterly to an air station's higher command. These results are intended to identify prob- lem areas so that corrective action can be taken. In our discussions with command officials, they were unable to provide any examples where specific corrective action was taken based on the reported error classifi- cation codes. According to fleet command officials, after the causes of problems are coded, the problems are aggregated into codes that are too general to provide insight into the actual causes of inventory record adjustments. In commenting on our draft report, DOD stated that the Navy was developing a competency based certification training module to specifically address error classification code selection and analysis.
Financial Integrity Act Assessments Are Needed	The Federal Manager's Financial Integrity Act of 1982 requires agency heads to assess their internal controls annually and to report their find- ings to the President and the Congress. The Navy provides its assess- ments to DOD for inclusion in the Secretary of Defense's report to the Congress.
ť	We reviewed the Navy's fiscal years 1986 and 1987 assessments of internal controls to determine if the Navy had identified significant weaknesses in inventory management by shore-based aviation activities As a result of the fiscal year 1986 assessment, the Navy reported that problems in inventory record accuracy had been identified as a material weakness at a number of activities. To correct this situation, the Navy planned to reemphasize, to commands and activities, the importance of

	Chapter 3 Internal Controls Do Not Ensure Inventory Record Accuracy			
	accurate inventory records and the need to comply with existing regulations.			
	In the fiscal year 1987 assessment, the Navy reported that corrective action to reemphasize the importance of accurate inventory records had been completed on May 30, 1987; however, a final milestone concerning war reserve stocks was scheduled for completion in December 1990. The internal control problems we found dealing with the accuracy of inven- tory records demonstrate that inventory management should continue to receive special emphasis in future Financial Integrity Act assessments.			
Conclusions	In view of the inventory management problems identified in this report, we believe that it may be premature for the Navy to report the correc- tive actions as complete and that inventory management should be des- ignated as an issue that will receive special emphasis in future Financial Integrity Act assessments.			
	Inventory management internal controls are an essential element for ensuring inventory record accuracy because they assist in identifying those human, procedural, or system errors that adversely affect inven- tory record accuracy. In this regard, the Navy has established inventory management internal controls such as a research system for identifying and helping to correct inventory record errors, a quality control pro- gram for appraising physical inventory functions, and an organizational structure to oversee air station inventory management. Currently, these internal controls have not been adequately implemented.			
	We found that (1) research of inventory record errors often was not done within established time frames, (2) quality control programs for physical inventory functions were not fully implemented by some air stations, and (3) command oversight of inventory management generally had not resulted in corrective action to improve air station inventory management problems.			
Recommendations	We recommend that the Secretary of the Navy direct the Commander, Naval Supply Systems Command, to improve internal controls over air station inventories. Specifically, we recommend that the Commander			
	• review the research program and develop approaches to assist activities in completing effective causative research within the specified times in			

	Chapter 3 Internal Controls Do Not Ensure Inventory Record Accuracy
•	order to increase the likelihood of identifying and correcting inventory problems; direct air stations to fully implement the required independent quality control program for appraising physical inventory functions; direct air stations' commands to properly document their oversight of air station inventory management practices and their corrective actions for improving inventory record accuracy; and ensure that the Navy's training module addressing error classification code selection and analysis is fully implemented at all field activities and their higher commands. To provide an additional focus on this area, we further recommend that the Secretary of the Navy designate inventory management improve-
	ment as an issue that will receive special emphasis in Financial Integrity Act assessments. This should be one of the areas targeted for an overall evaluation by the Navy.
Agency Comments and Our Evaluation	DOD partially concurred in our findings and recommendations regarding internal controls over air station inventories and suggested language to restate our recommendations and, therefore, obtain full concurrence. DOD also proposed various clarifications for the report. When appropri- ate, we incorporated the proposed changes.
	DOD disagreed that air station research was not timely and that the reason it was prolonged was to reduce monetary adjustment rates. DOD stated that the second statement was incorrect and misleading but offered no explanation why this was so. We clarified the report to show that, in fact, air station officials believe this to be their incentive for finding causes for errors. According to DOD, the first statement implied a systemic internal control problem. We clarified the report to show that the problems we found were limited to the activities visited. However, we still believe that research needs to be completed within established time frames. DOD recognizes this in the MILSTRAP manual in stating that preadjustment research must be done within 30 days and causative research must be done within 45 days. This allows up to 75 days to research those errors. At Norfolk and Oceana, causative research alone was averaging 67 and 127 days, respectively. We have revised our recommendation to reflect DOD's concerns.
-	DOD agreed that the quality control programs were not fully imple- mented at Norfolk, Oceana, and North Island; however, it did not agree with our recommendation as stated. DOD disagreed with the implication

that the quality control program is the only method for attaining inventory accuracy objectives. We have modified the report and our recommendation to address DOD's objection. According to DOD, the Navy will ensure that air stations fully implement the required program.

DOD agrees that the fleet commands can improve (1) in documenting trend analysis of key inventory management indicators and (2) in formalizing results of inventory accuracy initiatives. DOD does not agree that command monitoring is limited or that the system for classifying the causes of inventory errors found in research lacks precision. DOD stated that our examples of classification problems indicated a possible execution problem at the local air stations. Regarding command monitoring, DOD pointed out that command officials monitor other operational readiness aspects of the air stations' operations besides inventory accuracy. We have revised the report and our recommendation to more clearly delineate that the limited monitoring we discuss refers only to reviews of records accuracy and to acknowledge the training program the Navy is developing to train personnel on the selection and analysis of error codes. According to DOD, the Navy will conduct workshops to address these and other physical inventory program requirements for all field activities and type commanders, e.g., COMNAVAIRPAC and COMAVAIRLANT.

DOD concurred in our recommendation to emphasize inventory management in Financial Integrity Act assessments and stated that DOD policy specifically mandates review of physical inventory controls as part of the requirements implementing this act.

Management Indicators Do Not Provide a Complete Picture of Record Inaccuracy

Management indicators of inventory accuracy are essential because they provide higher commands an indication of those supply areas requiring additional attention. According to the fleet commands, key management indicators for assessing aviation inventory record accuracy are the record adjustment and the monetary adjustment rates. Although these indicators give a general, overall view of inventory accuracy, they do not give a complete picture of total records inaccuracy because

- inventory errors of \$800 or less are excluded in computing the record adjustment rate and
- reversals of prior period inventory adjustments are deducted from current adjustments when the monetary adjustment rate is calculated.

The Navy is attempting to improve the accuracy of inventory statistics. It has developed a statistical sampling and analysis computer software program for stock points having a specified automated supply system. However, statistical sampling programs have not been developed for other stock points.

Low-Value Errors Are Excluded From Accuracy Rates

Navy procedures require air stations to exclude inventory record adjustments valued at \$800 or less when calculating the record adjustment rate. The effect of limiting the numerous errors to only those that are in excess of a specified dollar value is to understate the record inaccuracies, as shown in table 4.1.

Table 4.1: Effect of Eliminating Low-Value Errors in Computing the Record Accuracy Rates	

Air station	Fiscal year 1988				
	ltems inventoried	Adjustments over \$800	Total adjustments	Reported rate (percent)	Recomputed rate (percent)
Norfolk	12,700	1,300	6,200	10.2	48.8
North Island	17,300	2,200	6,500	12.7	37.6
Oceana	35,900	900	13,800	2.5	38.4
Total	65,900	4,400	26,500	6.7	40.2

Table 4.1 shows that the Norfolk, North Island, and Oceana air stations had 26,500 inventory record errors in fiscal year 1988. These air stations, however, were allowed to eliminate 22,100 errors, which is 83 percent of their errors, because they were considered minor variances. As a result, the combined records error rate was 6.7 percent rather than the 40.2 percent that actually existed.

	Chapter 4 Management Indicators Do Not Provide a Complete Picture of Record Inaccuracy
	If an inventory record is out of balance with the warehouse quantity determined by a physical count, an error exists regardless of the dollar value of the inventory adjustment. Evaluation of data showing all errors, as well as those in excess of \$800, would be helpful in monitoring an air station's physical inventory program. Without these evaluations, higher commands do not have a complete picture of inventory record inaccuracies or the need for further analysis and corrective action.
Prior Adjustment Reversals Distort Current Accuracy Rates	Navy procedures require air stations to deduct reversals of prior period adjustments when calculating monetary adjustment rates. These rever- sals occur when research of supply records identifies transactions that cause prior adjustments to be in error. Reversals can be made for erro- neous transactions up to 1 year earlier but not earlier than the date the item was last inventoried. This procedure understates the monetary adjustment rate for the current period.
	Table 2.1 on page 13 shows that the Norfolk, North Island, and Oceana air stations inventoried materials valued at \$530.4 million in fiscal year 1988, resulting in inventory adjustments of \$76.5 million. Through research of supply records, the air stations were able to identify prior erroneous adjustments totaling \$63.2 million, thereby reducing the monetary adjustment rate from 14.4 percent to 2.5 percent.
	In some instances, the inventory adjustment reversals for a report period exceeded the current inventory adjustments. As a result, the reported monetary adjustment rate showed an air station to be better than perfect. During fiscal years 1987 and 1988, 7 of 13 air stations reported better than perfect monetary adjustment rates for at least one category of material.
· · · · · · · · · · · · · · · · · · ·	For example, Norfolk inventoried \$425,000 of prepackaged aviation materials in the fourth quarter of fiscal year 1987, resulting in \$58,000 of inventory adjustments. During that quarter, Norfolk's research of current and prior period inventory adjustments identified erroneous transactions valued at \$618,000. These were corrected and inventory adjustment reversals were processed. In calculating the monetary adjustment rate, Norfolk used a negative \$560,000 as the value of inven- tory adjustments rather than \$58,000. This resulted in a monetary adjustment rate of a negative 132 percent, compared to an actual rate of 14 percent.

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1	Chapter 4 Management Indicators Do Not Provide a Complete Picture of Record Inaccuracy	
	Because air stations use prior inventory adjustment reversals to offset current inventory adjustments, the value of reported adjustments does not portray the extent to which the inventory records were in error at the time of the inventory or the need for further analysis.	
Statistical Sampling Is Needed at All Activities	The Naval Supply Systems Command is attempting to improve the accuracy of inventory statistics. It has developed a Statistical Accuracy Techniques and Measurements Analysis (STATMAN) software program, which is a statistical sampling and analysis tool that can provide inventory statistics for Navy stock points having a specified automated supply system. According to the Naval Supply Systems Command, this program should establish an inventory accuracy baseline because it randomly selects items for inventory, which results in an unbiased and statistically correct accuracy assessment. We could not determine the effectiveness of this program because the Navy was in the process of implementing the program for the air statistical commands, there are statistical commands there are statistical to find the process of the program for the air statistical commands.	
	tions. According to fleet commands, those air stations having the required computer system for operating this software, such as North Island and Norfolk, were implementing this program in fiscal year 1989. Air stations without the required computer system, such as Oceana, have not been required to statistically select items for inventory. No sta- tistical sampling program has been developed for their computer systems.	
Conclusions	Management indicators of inventory accuracy are essential because they point out potential supply problem areas. For air stations, key manage- ment indicators of record accuracy are the record adjustment and the monetary adjustment rates. These indicators give higher management a general, overall view of inventory accuracy but do not provide enough detailed information on total record inaccuracies.	
v	While we recognize the desire of the higher commands to not focus attention on minor matters, we believe that they need to go beyond the overall indicators and also evaluate supplemental information on inven- tory accuracy. In this way, the commands will have a more complete picture of inventory record problems and can initiate corrective action. For example, reviewing inventory accuracy rates before inventory adjustments valued at \$800 or less are eliminated and reversals of prior period adjustments are deducted would give the commands an overview of the magnitude of the actual, total inventory errors.	

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	Chapter 4 The American Complete Picture of Record Inaccuracy
	The Navy's implementation of a statistical sampling approach at certain air stations should provide a better perspective of inventory accuracy. Other air stations have not developed statistical sampling procedures.
Recommendations	We recommend that the Secretary of the Navy direct the Commander, Naval Supply Systems Command, to evaluate plans to implement statis- tical sampling programs at all Navy supply activities and determine if they can be expedited or if alternative programs can be used in the interim.
Agency Comments and Our Evaluation	DOD agreed that statistical sampling is needed to provide an unbiased assessment of overall line item accuracy and suggested language to restate our recommendation to reflect Navy action to provide statistical sampling capability Navy-wide. We have adopted the suggested modification.
	In our draft report, we recommended that the Secretary of the Navy direct the Commander, Naval Supply Systems Command, to provide additional measures for evaluating the effectiveness of each air station's physical inventory program. Specifically, we recommended that the Commander require that higher commands evaluate (1) separate inven- tory accuracy rates for scheduled and unscheduled inventories and (2) inventory accuracy rates that reflect all inventory adjustments before deductions are made for low-value errors and reversals of prior period adjustments. DOD disagreed with these recommendations. On the basis of DOD's response and additional information regarding the second recom- mendation, we deleted these recommendations from our final report.
	Much of DOD's objections to our recommendations regarding additional accuracy measures are similar to those presented in chapter 2. DOD's overriding concern throughout its response to our report is that we have developed our own measures of inventory record accuracy that lack proper perspective and, therefore, are misleading. Further, DOD does not believe that separately reporting records accuracy data for scheduled and unscheduled inventories would give additional insight into the overall accuracy of the inventory; the best approach to gaining insight is statistical sampling.
¥	DOD stated in its comments that "Neither the record accuracy rate nor the monetary adjustment rate, defined by the GAO, is a key management indicator." Further, it stated that "The GAO recommendation implies

that the Navy should adopt the new measures that GAO has defined and used by the GAO in this report, specifically record accuracy rate and monetary adjustment rate. The Department strongly disagrees with the utility of either measure".

DOD's major objection to the initial records accuracy rate that we have discussed in this and past reports is that it does not differentiate between major and minor variances. Currently, DOD defines a minor inventory variance as one that is under \$800 and therefore excludes it from the computation of the major adjustment rate. The purpose of this delineation is to provide management with insight into the significance of variances such that management directs its attention and resources toward significant errors. While it is appropriate for DOD to concentrate first on the high-value items, it should also be concerned about the significant amount of inventory adjustments on the lesser valued items. In the Defense supply system, even a low-value item may be critical to weapon system operations. According to DOD's August 31, 1989, approved change to the MILSTRAP manual, this measure will be required in the ICE report. Because of this new requirement and the Navy's plans to implement statistical sampling techniques Navy-wide, we are not making a recommendation at this time. Since all inventory records will be sampled, this should provide DOD and the Navy the means to evaluate all discrepancies in addition to first concentrating on high dollar variances.

DOD's objection to the monetary adjustment rate that we have discussed in this and past reports is that it does not recognize the purpose of the reversal transaction. According to DOD, when a variance occurs because of an improper posting of a supply transaction, steps need to be taken to ensure that the supply transaction is posted properly. In order to do this and ensure the record quantity and the on-hand quantity remain in agreement, DOD maintains that a reversal transaction must be posted along with the proper supply transaction. A reversal does not negate, according to DOD, the fact that the item had a variance nor should it be double counted. DOD contends that if erroneous inventory adjustments are corrected in subsequent inventories and not reversed, both the original and corrected adjustment will be used to compute monetary adjustment rates-double counting according to DOD. In our opinion, all inventory adjustments, regardless of their cause, should be used in computing the monetary adjustment rates because both times the quantities shown on the record were wrong. The new ICE report requirements now also will include a calculation of total imbalances. Therefore, we are not making a recommendation at this time.

We agree with DOD that the best approach to gaining insight into overall inventory accuracy is through statistical sampling. We also have deleted our discussion on the impact of scheduled and unscheduled inventories on records accuracy because the Navy plans to implement statistical sampling techniques.

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Appendix I

Naval Air Station Aviation Inventories as of April 1988

Command/air station	General supplies and ammunition	Aviation repairables	Tota
Naval Forces Europe:			
Sigonella	\$204.0	\$61.0	\$265.0
Atlantic Fleet:			
Bermuda	26.0	18.6	44.
Brunswick	41.0	14.6	55.
Cecil Field	76.0	130.5	206.
Guantanamo Bay	5.0	2.5	7.
Jacksonville	99.0	41.4	140.
Keflavik	118.0	13.3	131.
Key West	28.0	21.7	49.
Norfolk	65.0	191.1	256.
Oceana	92.0	137.3	229.
Pacific Fleet:	······		
Adak	48.0	33.8	81.
Agana	17.0	34.7	51.
Alameda	24.0	14.1	38.
Barbers Point	119.0	39.1	158.
Cubi Point	45.0	1.7	46.
Fallon	8.0	6.5	14.
Lemoore	142.0	53.7	195.
Miramar	216.0	135.4	351.
Moffett Field	124.0	23.4	147.
North Island	478.0	166.0	644.
Whidbey Island	156.0	80.4	236.
Naval Air Systems:			
Lakehurst	1.0	0.0	1.
Patuxent River	180.0	82.7	262.
Point Mugu	264.0	56.3	320.
Naval Reserves:			
Atlanta	13.6	10.4	24.
Dallas	44.0	68.9	112.
Glenview	8.2	6.7	14.
New Orleans	15.6	18.1	33.
South Weymouth	26.7	21.4	48.
Willow Grove	16.3	11.4	27.
Naval Supply Systems:			
Meridian	a	а	
Whiting Field	a	a	

(continued)

Appendix I Naval Air Station Aviation Inventories as of April 1988

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Command/air station	General supplies and ammunition	Aviation repairables	Total
Naval Education and Training:			
Chase Field	0.4	6.1	6.5
Corpus Christi	120.3	0.3	120.6
Kingsville	0.7	4.6	5.3
Memphis	2.1	6.5	8.6
Pensacola	0.3	34.9	35.2
Total	\$2,824.2	\$1,549.1	\$4,373.3

^aRequired aviation materials are maintained by the Pensacola Naval Air Station and the Pensacola Naval Supply Center.

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Comments From the Department of Defense















Enclosure 5 of t y activities for s relop and submit I to the DoD. In pa hstruction specifi- atio" which is equi- he DoD Inventory C states that, "Whe supplies, the majo ten percent, a nar on(s) is required. he Navy has establ thow more than justory performance g	entory Program," dated the instruction provides submitting the feeder da inventory Control tragraph (9) (page 5 of es how to calculate the divalent to the "Major control Effectiveness re on, on the Physical Inve- tor adjustment ratio for trative explanation of co " This is not a Navy g ished to indicate at which the raw statistics. Tools are described and SUP Instruction 4440.11	port. ntory total auses coal; at The
entory, which take accepted tolerance an accuracy is wid as that not all in d, consequently, s attention or reso c opposition to th by the GAO, which acc regardless of a. The Navy line	em accuracy goals based into account specific re levels for each. This lely used in the private ventory variances are on hould not receive the source expenditure. This re pure record accuracy a considers every variant the item, its value or item accuracy goals (no int goals), by class, ar	item s f ame rate ce to the te
High Dollar Value	$(U/P > 1K) = 98\% \pm 0\%$	
High Variability (variable accurac purposes an inve	EC 3,4,5) = $95\% \pm 0\%$ AQD > 3 or U/I = to EA) by level, i.e. for intory is not considered it is within 10% of the	
All other = 95% <u>+</u> .	5%	



1.1.2.0







	beyond the allowed timeframe because the inventory adjustment can be reversed when a reason for an error is foundthereby improving the monetary adjustment rate. The GAO concluded however, that, as the DoD physical inventory guidance states, extending the timeframe unnecessarily compounds the scope of the research effort and decreases the likelihood of finding the cause of the errors. The GAO further concluded that research of inventory record errors is often not done in a timely and effective manner. The GAO also concluded that the following inventory management internal controls were not adequate:
	 the research system for identifying and correcting inventory record errors;
	 the quality control program for physical inventory functions; and
1 -	 the command oversight of air station inventory management.
n pp. 20 and 21.	In summary, the GAO concluded that the internal control weaknesses demonstrate the need to designate inventory management an issue for special emphasis in future Financial Integrity Act Assessments. (pp. 24-26/GAO Draft Report)
	DOD RESPONSE: Partially concur. The DoD does not agree with the GAO statement, "The GAO observed that the air station research is not done in a timely manner." The DoD also does not agree with the 'GAO statement that the reason for prolonged causative research is to reduce or meet monetary adjustment rates. The Department disagrees with the first statement in that it implies a systemic weakness and an internal control problem, which would indicate some corrective action is required; this is, however, not substantiated by the data collected by the GAO. The Department disagrees with the second statement on the basis that it is incorrect, misleading, and is not substantiated.
	The Department has established 45 days after the date of the adjustment for the completion of causative research in order to increase the likelihood of identifying the root cause for the original variance. The Department recognizes, however, that causative research will exceed the target timeframe. In prioritizing physical inventory resources, the Department allocates its resources first to identifying and correcting inventory variances. Causative research occurs after variances
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Appendix II Comments From the Department of Defense



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ow on pp. 23 to 25.	The GAO noted that the fleet commands relied primarily on periodic air station inventory record accuracy testing during supply management inspections, conducted every 24 months for the Atlantic fleet stations, and every 18 months for the Pacific fleet stations. The GAO reported that the most recent inspections at the Norfolk and Oceana air stations, using judgmentally selected items, showed 20 percent and 15 percent of the records (respectively) were inaccurate. The GAO found that the commands have not initiated corrective action as a result of the causative research information provided them. The GAO observed that its tests showed that the air stations could not identify the causes of most inventory errors and, where causes were identified, the air stations grouped most of the errors into too few error classification codes when reporting to the higher commands. The GAO concluded that the classification system lacks precision, as evidenced by the causes of errors for example, 13 of the 16 cases it reviewed at North Island, were reported under a single category"inventory control document not posted/incomplete"when the air station officials actually identified seven different types of inventory errors. The GAO also found that command officials were unable to provide any examples where specific corrective action was taken based on the reported error classification codes. The GAO reported that command officials indicated that after the causes of problems are coded, the problems are aggregated into codes that are too general to provide insight into the causes of inventory record adjustments. The GAO concluded that command oversight of inventory management is limited and corrective action by commands to improve air station inventory management is scarce. (pp. 29-33/GAO Draft Report)
	<pre>commands do not provide day-to-day guidance to air stations; they provide general direction to the supply officer. Monthly monitoring actions include (1) review of physical inventory (e.g., Gross Monetary Adjustments, Location Accuracy), (2) financial inventory (e.g., carcass tracking charges), (3) warehouse refusals, and (4) point of entry effectiveness reports. Copies of these operational readiness reports were shared with the GAO during the audit.</pre>
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GAO/NSIAD-90-45 Air Station Inventories

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	• FINDING F: Financial Integrity Act Assessments Are Needed. The GAO reported that, as a result of the FY 1986 assessment of
	internal controls, the Navy reported that problems in inventory record accuracy had been identified as a material weakness at a
	number of activities. The GAO further reported that, to correct
	the problems, the Navy planned to reemphasize to the commands and activities, the importance of accurate inventory records and the need to comply with existing regulations. The GAO found that, notwithstanding the fact the FY 1987 Navy assessment reported that corrective action had been completed on May 30, 1987, significant inventory problems continue to exist. The GAO concluded (1) that it was premature for the Navy to report that corrective actions were complete and (2) that inventory management should again be designated as an issue that will
	receive special emphasis in future Financial Integrity Act
	assessments. The GAO did recognize that the Navy has established a number of inventory management controls, including:
	 a system for identifying and helping to correct inventory record errors;
	 a quality control program for appraising physical inventory functions; and
	 an organizational structure to oversee air station inventory management.
on pp. 25 and 26.	In summary, however, the GAO concluded that these internal controls have not been adequately implemented to date. (pp. 33-34/GAO Draft Report)
	DOD RESPONSE: Partially concur. The Department agrees that the Navy has established a number of inventory management controls;
	however, the Department does not agree that this report substantiates the conclusion that significant inventory problems
	continue to exist or that it was premature for the Navy to report that corrective actions were complete with regard to the material weakness identified as a result of the Navy FY 1986 assessment.
	Based on the DoD response to FINDINGS A, B, and C, in particular, the conclusion that <u>significant</u> inventory problems continue to exist is not substantiated by this report. Further, the specific alleged problems identified in this audit report are not
	identical to those in the FY 1986 material weakness. The DoD Internal Management Control Program requires that the heads of
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GAO/NSIAD-90-45 Air Station Inventories

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Appendix II Comments From the Department of Defense







Page 66

 Nowever, contain some measures that give insight into the overall occuracy of the Department's inventory. Two percentages (GROSS DJUSTMENT RATES) are calculated by dividing the total annual hollar value of gross adjustments by the average dollar value of the total inventory and the total dollar value of the items by bysically inventoried during the year, respectively. The two resultant values are then multiplied by 100, converting the lecimal values to percentages. Definitions of source data: Gross Adjustment Dollar Value: The absolute value of the sum of the dollar value of the total validated annual gain and loss adjustment transactions less the appropriate reversals. Average Inventory Value: The cumulative sum of the monthly dollar values of all on-hand materiel divided by 12. Value of Items Physically Inventoried: The sum of the dollar values of all on-hand materiel for each of the items inventoried during the year. The gross adjustment rates are significant measures of the effectiveness of the DoD physical inventory control program because they reflect the net result, in terms of dollars, of the DoD physical inventory control program is on conducting inventories on those items that are likely to be in inventories will be high relative to that which would be expected if all items were inventoried. The gross adjustment rate as a percent of the total average inventory provides a rate that is probably a little lower than the rate that would result fall items were inventoried. Therefore, the two adjustment rate for he at a percent of the total average inventory provides a rate that is probably a little lower than the rate that would result fall items were inventoried. Therefore, the two adjustment rate for he entire inventory. The current DoD-wide upper and lower bounds of the true adjustment rate for he entire inventory. The current DoD-wide upper and lower bounds he reversal transactions that result from it have a two fold 	 however, contain some measures that give insight into the overall accuracy of the Department's inventory. Two percentages (GROSS ADJUSTMENT RATES) are calculated by dividing the total annual dollar value of gross adjustments by the average dollar value of the total inventory and the total dollar value of the items physically inventoried during the year, respectively. The two resultant values are then multiplied by 100, converting the decimal values to percentages. Definitions of source data: Gross Adjustment Dollar Value: The absolute value of the sum of the dollar value of the total validated annual gain and loss adjustment transactions less the appropriate reversals. Average Inventory Value: The cumulative sum of the monthly dollar values of all on-hand materiel divided by 12. Value of Items Physically Inventoried: The sum of the items inventoried during the year. 	Tł	ne DoD Inventory Control Effectiveness report does,
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purpose. The first purpose of causative research is to identify,	purpose. The first purpose of causative research is to identify,		
		purpose	a. The first purpose of causative research is to identify,

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	repairable assets. This effort encompassed over 10,000 inventory records, which could understandably prevent the completion of the research phase within the prescribed timeframes. This air station, therefore, is also not representative of air stations in general.
	The Department does agree that, by its nature, causative research is a difficult and labor intensive task, which becomes more difficult and less fruitful with the passage of time. The Department could concur with a recommendation that stated, "The Commander, Naval Supply Systems Command, should review the research program and develop approaches to assist activities in completing effective causative research in a timely fashion." (The Navy will complete this review by the beginning of next Fiscal Year.)
(on p. 27.	• RECOMMENDATION 2: The GAO recommended that the Secretary of the Navy direct the Commander, Navy Supply Systems Command, to improve internal controls over air station inventories by ensuring that air stations fully implement the required independent quality control program for appraising physical inventory functions in order to verify that the physical inventory process is properly working. (p. 35/GAO Draft Report)
	DOD RESPONSE: Partially concur. The DoD disagrees with the Recommendation as stated. The GAO recommendation implies that a fully implemented independent quality control program is required to improve internal controls by verifying that the physical inventory process is working properly. The GAO report, however, has not specifically identified deficiencies to indicate that the physical inventory program was not working.
	The DoD disagrees that an independent quality control program is the <u>only method</u> for attaining inventory accuracy objectives. The DoD has stressed individual accountability in order to institutionalize quality control at the lowest possible level. The DoD objective is to incorporate quality into the processes itself (whether it be receiving, ordering, storing, or taking of physical inventory), which requires quality control emphasis on a daily basis at the lowest levels.
	The DoD agrees that independent reviews are necessary to sample the effectiveness of the program, as well as bring a fresh
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	Appendix II Comments From the Department of Defense
	perspective and/or when known or suspected problems are evident. The Department could concur with a recommendation that states, " The Commander, Navy Supply Systems Command, should take action to ensure that air stations fully implement the required independent quality control program." (The Navy will ensure this is done on or before the end of this fiscal year.)
n p. 27.	• RECOMMENDATION 3: The GAO recommended that the Secretary of the Navy direct the Commander, Naval Supply Systems Command, to improve internal controls over air station inventories by ensuring that the air station commands more aggressively oversee air station inventory practices to identify problem areas and take corrective action for improving inventory record accuracy. (p. 35/GAO Draft Report)
	DOD RESPONSE: Partially concur. The DoD does not agree with the GAO conclusion that internal controls are ineffective in ensuring that air station commands oversee air station inventory practices to identify problem areas and take corrective action for improving inventory record accuracy. The Department does, however, agree that the fleet commands can improve in documenting trend analysis of key inventory management indicators and in formalizing results of inventory accuracy initiatives. The Department could concur with a recommendation that states, "The Commander, Naval Supply Systems Command, should take action to ensure air station commands properly document oversight and corrective actions for improving inventory record accuracy." In order to improve in this area, two workshops have been scheduled at the end of June 1989 for field activities and type commanders. These workshops will also address all the other physical inventory program requirements. (See DoD Response to FINDING E.)
n p. 27.	• <u>RECOMMENDATION 4:</u> The GAO recommended that the Secretary of the Navy direct the Commander, Naval Supply Systems Command, to improve internal controls over air station inventories by ensuring that the inventory error classification system is improved to provide better specificity for classifying the causes of inventory errors so that higher management (commands) can take appropriate action. (p. 35/GAO Draft Report)
v	DOD RESPONSE: Partially concur. The Department does not agree with the GAO conclusion that the error classification system

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lacks precision. The 34 codes provide the maximum possible range when using a one digit character. The error code definition provides information on (1) the function/operation in which the	
error occurred (receiving, storage, inventory control or physical inventory), and (2) the type of transaction error (i.e., data entry, duplicate posting or not posted). The error code definition also allows the Navy to capture information on avoided adjustments that are resolved during preadjustment research, as well as during causative research. The current coding structure provides ample codes for error identification, activity use, and for higher command summarizations. See DoD response to FINDING E.	
The examples highlighted in Table 3.1 of the GAO report indicate a possible execution problem at the local air station. To ensure consistency and enhance user knowledge, the Navy is developing a competency based certification training module to specifically address error classification code selection and analysis. This module is scheduled for delivery in June 1989.	
 RECOMMENDATION 5: The GAO recommended that the Secretary of the Navy, in order to provide an additional focus on this area, designate inventory management improvement as an issue that will receive special emphasis in Financial Integrity Act assessments, and target this area for an overall evaluation by the Navy. (p. 36/GAO Draft Report) 	
DOD RESPONSE: Concur. Inventory management is an area of concern and high level interest. Current Department policy, DoD Instruction 4140.35, specifically mandates review of physical inventory controls as part of the requirements implementing the Federal Manager's Financial Integrity Act. Additionally, other ongoing actions to improve inventory management (including the physical inventory control program) within the Navy include the semiannual flag level inventory accuracy improvement program, Supply Management Inspections, and designation as an item of special interest for command inspections. The designation of functions for review during the following year is an annual process, which involves review and analysis of control management reports submitted to the Secretary of the Navy, evaluation by the Internal Control Systems Coordinating Committee (audit, inspection, investigation, and other control components of the Department of the Navy), and evaluation by the Department of the Navy Review and Oversight Council (Under Secretary, Assistant	
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	Department also disagrees that inventory accuracy rates should reflect all inventory adjustments before deductions are made for low value errors and reversals of prior period adjustments (see the DoD Responses to FINDINGS I and J).
v on p. 32.	• <u>RECOMMENDATION 8</u> : The GAO recommended that the Commander, Naval Supply Systems Command, ensure that the Statistical Accuracy Techniques and Measurements Analysis program is properly implemented at the air stations having the required computer system. (p. 45/GAO Draft Report)
	DOD RESPONSE: Partially concur. The GAO Recommendation implies the Statistical Accuracy Techniques and Measurements Analysis program <u>is not properly implemented</u> at the air stations having the required computer system. The Department disagrees on the basis that this is not, in fact, the case, nor has the GAO demonstrated this is the case; consequently, the GAO Recommendation provides no basis for DoD action. The Department suggests the alternative recommendation contained in the DoD Response to Recommendation 9 be adopted and Recommendation 8 be deleted. (Also see the DoD Response to FINDING H).
on p 32.	• <u>RECOMMENDATION 9</u> : The GAO further recommended that the Commander, Naval Supply Systems Command develop and implement statistical sampling programs for the other air stations as well. (p. 45/GAO Draft Report)
	DOD RESPONSE: Partially concur. The GAO Recommendation implies that the Navy has no plans to develop and implement statistical sampling programs for the other air stations. As of September 1988, \$24,437 million or 83 percent of the total Navy wholesale/retail stock point general supplies inventory was covered. The Norfolk and North Island Naval Air Stations provided their first Statisticcal Accuracy Techniques and Measurement Analysis Program reports in second quarter Fiscal Year 1989. The remaining Uniform Automated Data Processing System for Stock Points activities will be fully implemented by September 1989. For the activities that are not supported by the Uniform Automated Data Processing System for Stock Points (the 10 percent of the total inventory value), the Statistical Accuracy Techniques and Measurement Analysis Program capabilities were incorporated as a Stock Point ADP Replacement modernization
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Appendix II **Comments From the Department of Defense** requirement and will be delivered during the 1990s. The Department could concur with a recommendation that states, "The Commander, Naval Supply Systems Command should evaluate current statistical sampling deployment plans and determine if they can be accelerated or if alternative sampling programs could be deployed in the interim." The Navy will make this evaluation by the end of this fiscal year. (See the DoD response to FINDING H.)

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Appendix III Major Contributors to This Report

National Security and International Affairs Division, Washington, D.C.	James Murphy, Assistant Director, Navy Issues, (703) 557-1480
Norfolk Regional Office	Hugh Brady, Regional Management Representative Johnnie Phillips, Evaluator-in-Charge Robert Arcenia, Site Senior Oried Graves, Evaluator Mary Moody, Evaluator

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