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UNITED STATES GENERAL ACCOUNTING OFFICE

WASHINGTON, D C 20548

CIVIL DIVISION

APR 2 9 1969

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Dear Dr. Astini

We have made a survey of policies and practices relating to the procurement of equipment and supplies at the Poulder Laboratories of the National Bureau of Standards, Department of Commerce, located at Boulder, Colorado. Our survey was made pursuant to the Budget and Accounting Act, 1921 (31 U.S.C. 53) and the Accounting and Auditing Act of 1950 (31 U.S.C. 67).

Our survey was directed primarily toward examining into the proourement methods utilized, the extent of competition obtained, and whether required sources of supplies were being utilized. Our survey included an examination of pertinent legislation; General Services Administration regulations; Bureau regulations, policies and procedures; applicable records available at the Boulder Laboratories; and discussions with appropriate officials at Boulder and NBS headquarters in Gaithersburg, Maryland.

The Supply Section of the Administrative Services Division at Poulder is responsible for the procurement of supplies, equipment, and services for both Bureau and Environmental Science Services Administration (ESSA) organizational units located at the Boulder Laboratories. Our survey showed that procurement policies and practices were generally satisfactory. We did note, however, certain areas where we believe improvements could be made. These areas are discussed in the following sections of this letter.

POSSIBLE SAVINGS THROUGH INCREASED USE OF BLANKET PURCHASE AGREEMENTS

During our survey we noted that established dellar limitations may have restricted the use of blanket purchase agreements (RPAs) and that by lifting such restrictions possible savings could be effected.

The Code of Federal Regulations (41 CFR 1-3606) establishes a Government-wide policy for the purchase of day-to-day supplies or nonpersonal services requirements, such as the maintenance of rental equipment, through BPAs with vendors or dealers on a "charge account"

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basis. It provides that BFAs are authorized when (1) a wide variety of items in a broad class of goods, like hardware, are generally purchased from local suppliers but the exact items, quantities, and delivery requirements are not known in advance and may vary considerably, (2) there is a need to provide local connercial sources of supply for one or more offices or projects in a given area that do not have or need authority to purchase otherwise, and (3) in any other case where the writing of manerous purchase orders can be avoided through the use of this procedure.

Section 203.10 of the Europu's Administrative Manual implements the above Government-wide policy and provides Europu procurement officials authority to use BPAs. However, it also established dollar limitations for purchases made under BPAs which restricted use of the BPA procedure to procurements where the total cost of a purchase request was less than \$500 and no single Line item exceeded \$100.

We observed that of \$4.8 million of supplies and equipment procurement at Woulder in fiscal year 1968, BPAs or reservations more utilized for only about \$858,500. Reservations are normally used for monthly user charge type items such as machine rentals, utilities expenses, or other charges that are of a recurring nature.

The Boulder Supply Section maintains five storerooms to stock and have available for issue various types of supplies. Each of the five storerooms generally supplies a particular type of item and each is assigned a separate project number for fiscal purposes. For example, the Electronic Storeroom stocks electronic type items and the Stationery Storeroom stocks office supplies.

Our review of 348 purchase orders issued to 13 local vendors for storeroom replanishment items during fiscal year 1968 showed that while a number of purchase orders were within the established DPA dollar limitations, BPAs were not used. Mereover, we found that elimination of the established dollar limitations for DPAs would have allowed the purchases made under these 348 purchase orders to have been made under 14 DPAc.

We did not determine the relative administrative cost to the Boulder Supply Section for purchasing items by using SPAs as compared to individual purchase orders. However, a 1964 General Services Administration (GSA) report on a study of purchasing and contracting operations at Bureau headquarters showed that the cost to purchase each line item was 25 cents under MPAs and \$2.47 on informal (open market) purchases. Based on the CSA study, it appears that savings could be effected if greater use were made of BPAs for replanishing storeroom items.

Procurement officials at Boreau hasdquartors in Gaithershorg, Maryland, informed us that the dollar limitations were established to ensure that individual purchase orders would be propared for all purchases of honoxpendable capital items in excess of the limitations. According to a Bureau official, the proparation of individual purchase orders assures that the items purchased will be capitalized and recorded on the property samagement records, thus providing the Dureau with a means of internal control over such purchases.

Our review should, however, that the same internal control could be accomplished under the BPA system. Procurement officials at Pureau headquarters agreed with our view and on February 20, 1969, the Chief, Procurement Section, removed the Surceu's dollar limitstions on the use of SPAs for all Surceu procurement.

To believe that resovel of the Aurora's established doller limitations should enable sevings in procurement costs through the increased use of 1974s at Parsau headquarters. as well as at Poulder. However, in discussing the possible increased usage of PPAs. we wave advised by a Roulder procurement official that all purchases must be identified with an individual project manher for fiscal purposes and that use of a single EFA for mmercus projects was unsatisfactory for this purpose. We recordize the need to accordate all purchases with the individual project member for fiscal purposes, however, this need does not preclude the use of BPAs for storeroom replenishest cluce, as previously stated, each storeroom has a separate project matter and a separate MPA could be established for each vendor supplying a particular storeroom. In addition, we believe that further increased use of BPAs may be possible through establishing only one 3PA for each vendor supplying storenoons. We believe, therefore, that further savings could be effected at the Boulder Laboratories through the ingressed use of IPAs for storarson realentshamt.

Recommendation

Accordingly, we recommend that the Boulder Laboratories make greater use of BPAs where practical and feasible in the procurament of supplies, including storerous replandament items.

POTENTIAL SAVINGE THROUGH INCREASED USE OF FORMAL ADVERTISING

We noted during our survey of producesent activities that additional savings might be offected through the increased use of formal advertising. The Code of Federal Regulations (41 CFR 1-3.101) provides that no pronurement in encase of \$2,500 shall be made by negotiation if the use of formal advortising is feasible and provideable under the existing conditions and circumstances, even though such conditions and circumstances would otherwise satisfy the requirements of procurement by negotiation.

The Boulder Supply Section wakes measures purchases from local suppliers for replanishment of storeroom stock, such as electronic supplies. We ware informed by a Stores Unit official that requisitions for replanishment were normally initiated when the reorder points indicated on the stock cards were reached-usually when a 2-month supply of each item is on hand. As a normal practice, the Procurement Unit, upon receipt of requisition dommants for \$2,50° or less, issued purchase orders on a daily basis to local suppliers under the small purchase procedure.

Buring our survey, us identified 17 weeks during fiscal year 1968 in which purchases of electronic supplies for storeroom replenishment from four local suppliers would have exceeded \$2,500 had all requisitions for electronic supplies been accumulated for 1-week periods in lieu of issuing purchase orders on a daily basis. The use of formal advertising procedures for such purchases bould increase the number of vendors colicited, which could result in a lower total cost to the Government for the items purchased through increased competition.

Boulder procurement officials advised us that they believe that the accumulation of requisitions for formal advertising might increase procurement costs and adversely affect supply services. They advanced the following principal reasons:

- 1. Righer prized personnel would be required to perform contract work.
- The procurement cycle would be increased by 1 month because of the necessity to obtain and evaluate bids.
- 3. Formal advartising usual not necessarily result in lower prices since the of the vendors currently supplying items to NRS are national firms offering national prices. In addition, price quotations are solicited from local vendors who are known by experience to give the lowest prices for certain items.

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It is generally recognized that increased competition through formal advertising provides one of the best assurances that needs will be filled at a fair price. We believe, therefore, that inercased use of formal advertising procedures through the accumiztion of requisitions for storeroom replanishment on a weekly basis could result in a mavings in procurement costs at the Poulder Laboratories.

Recommendation

Accordingly, we recommend that a comparative study he made at the Houlder Laboratories to determine whether the accumulation of requisitions, on a weekly basis, for storenoon replenishment would result in a not savings in procurement costs.

MEED TO REVIEW COSPI FACTORS USED. IN RECONDATE OFFICE CUANPITY FORMULA

General Services Administration (GSA) Pederal Property Management Regulations (FPCR 101-27.102) require the use of the economic order quantity (ECO) principle of stock replanishment by civilian agencies and recognize the used for periodic review of the cost factors used to formulate SCO tables. This method of replanishment utilizes a mathematical formula to determine the order size which will minimize total procurement and inventory-carrying costs. The 200 tables show the economic order quantities for ranges of armual or monthly demand. The reliability of the formula is dependent on the ascuracy of the procurement and inventory cost factors used in the calculations.

The Roulder Supply Section uses on MOQ table in the replenishment of storeroom stock. However, the table in use was developed over three years ago and the procurement and inventory cost factors used in the formula have not been subsequently reviewed or updated.

Since the reliability and effectiveness of the EOO principle of stock replanishment is dependent on the accuracy of the procurement and inventory cost factors used in developing the EOO table, we believe that the Boulder Supply Section should review these cost factors to determine whether they are still appropriate.

Recommendation

Accordingly, we recommend that the Boulder Supply Section review, and review if necessary, the procurement and inventorycarrying cost factors used in the RNO formula. We recommend also that action be taken to provide for the periodic review of these

cost fectors.

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We wish to express our appreciation for the courtesies and cooperation extended to our representatives during the survey. We plan no further reporting at this time. We would appreciate being serviced of corrective actions taken as a result of this report.

Sincerely yours,

Henry Eschwege

Henry Sschwege Associate Director

Dr. A. V. Astin, Director National Bureau of Standards Department of Commerce

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