

<b>SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS</b> <i>OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, AND 30</i>				1. REQUISITION NUMBER 96311M-3044-2996		PAGE 1 OF 7			
2. CONTRACT NO. DACW31-03-P-0167		3. AWARD/EFFECTIVE DATE 26-Mar-2003		4. ORDER NUMBER		5. SOLICITATION NUMBER DACW31-03-T-0034			
7. FOR SOLICITATION INFORMATION CALL:		a. NAME WILLIAM EPPS		b. TELEPHONE NUMBER (No Collect Calls) 410-962-5610		8. OFFER DUE DATE/LOCAL TIME 02:00 PM 20 Mar 2003			
9. ISSUED BY CONTRACTING DIVISION PO BOX 1715 BALTIMORE MD 21203-1715  TEL: 410-962-5638 FAX: 410-962-0933		CODE CW31		10. THIS ACQUISITION IS <input type="checkbox"/> UNRESTRICTED <input checked="" type="checkbox"/> SET ASIDE: 100% FOR <input checked="" type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> SMALL DISADV. BUSINESS <input type="checkbox"/> 8(A)  SIC: 5084 SIZE STANDARD: 500		11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE  13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)  13b. RATING  14. METHOD OF SOLICITATION <input checked="" type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP			
15. DELIVER TO MACHINE SHOP UNIT JAY MCCOY 5900 MACARTHUR BLVD NW WASHINGTON, DC 20315-0220		CODE E250513		16. ADMINISTERED BY CONTR DIV OPERATIONS BR PO BOX 1715 BALTIMORE MD 21203-1715		CODE E1P0500			
17a. CONTRACTOR/ OFFEROR PHILADELPHIA GEAR CORPORATION JIM FATTA DBA: PHILADELPHIA MIXERS DIVISION 1221 E MAIN STREET PALMYRA PA 17078  TEL. (717)832-8817		CODE 0MSE2  FACILITY CODE 0MSE2		18a. PAYMENT WILL BE MADE BY USACE FINANCE CENTER ATTN: DISBURSING 5722 INTEGRITY DRIVE MILLINGTON TN 38054-5005		CODE TOB0200			
<input type="checkbox"/> 17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER		18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a. UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM							
19. ITEM NO.		20. SCHEDULE OF SUPPLIES/ SERVICES		21. QUANTITY		22. UNIT			
		SEE SCHEDULE							
23. UNIT PRICE		24. AMOUNT							
25. ACCOUNTING AND APPROPRIATION DATA See Schedule						26. TOTAL AWARD AMOUNT \$104,792.00			
<input type="checkbox"/> 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1. 52.212-4. FAR 52.212-3. 52.212-5 ARE ATTACHED.						ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED			
<input type="checkbox"/> 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED.						ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED			
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN <u>0</u> COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.				29. AWARD OF CONTRACT: REFERENCE DACW31-03-T-0034 <input checked="" type="checkbox"/> OFFER DATED 17-Mar-2003. YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS: SEE SCHEDULE					
30a. SIGNATURE OF OFFEROR/CONTRACTOR			31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER) <i>Mary C. Robertson</i>			31c. DATE SIGNED 27-Mar-2003			
30b. NAME AND TITLE OF SIGNER (TYPE OR PRINT)		30c. DATE SIGNED		31b. NAME OF CONTRACTING OFFICER (TYPE OR PRINT) MARY C ROBERTSON / ADDED BY SUMI TEL: 410-962-3788 EMAIL:					
32a. QUANTITY IN COLUMN 21 HAS BEEN <input type="checkbox"/> RECEIVED <input type="checkbox"/> INSPECTED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED			33. SHIP NUMBER PARTIAL <input type="checkbox"/> FINAL <input type="checkbox"/>		34. VOUCHER NUMBER		35. AMOUNT VERIFIED CORRECT FOR		
32b. SIGNATURE OF AUTHORIZED GOVT. REPRESENTATIVE		32c. DATE		36. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL			37. CHECK NUMBER		
41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT				38. S/R ACCOUNT NUMBER		39. S/R VOUCHER NUMBER		40. PAID BY	
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		41c. DATE		42a. RECEIVED BY (Print)					
				42b. RECEIVED AT (Location)					
				42c. DATE REC'D (YY/MM/DD)		42d. TOTAL CONTAINERS			

Section SF 1449 - CONTINUATION SHEET

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	51330181 - GEAR DRIVE - MINIMUM FFP HORSEPOWER RATING OF 10HP BASED ON 1800RPM INPUT WITH A RATIO OF 247:1 AND IN ACCORDANCE WITH THE ATTACHED SPECIFICATION. POC (REQUESTOR) RANDY HILL/JAY MCCOY (202)764-2727/0831 POC (VENDOR) JIM FATTA (717) 832-8817 POC (CONTRACTING OFFICE) WILLIAM EPPS (410)962-5610 PURCHASE REQUEST NUMBER: 96311M-3044-2996	3	Each	\$18,742.00	\$56,226.00
					NET AMT
					\$56,226.00
ACRN AA Funded Amount					\$56,226.00

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	51330181 - GEAR DRIVE - MINIMUM FFP HORSEPOWER RATING OF 15HP BASED ON 1800RPM INPUT WITH A RATIO OF 253:1 AND IN ACCORDANCE WITH THE ATTACHED SPECIFICATION. POC (REQUESTOR) RANDY HILL/JAY MCCOY (202)764-2727/0831 POC (VENDOR) POC (CONTRACTING OFFICE) WILLIAM EPPS (410)962-5610 PURCHASE REQUEST NUMBER: 96311M-3044-2996	2	Each	\$24,283.00	\$48,566.00
					NET AMT
					\$48,566.00
ACRN AA Funded Amount					\$48,566.00

FOB: Destination

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	N/A	N/A	N/A	Government
0002	N/A	N/A	N/A	Government

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	15-APR-2003	3	MACHINE SHOP UNIT JAY MCCOY 5900 MACARTHUR BLVD NW WASHINGTON, DC 20315-0220 (202) 764-0831 FOB: Destination	E250513
0002	15-APR-2003	2	(SAME AS PREVIOUS LOCATION) FOB: Destination	E250513

ACCOUNTING AND APPROPRIATION DATA

AA: 99 NA X 9829.0000 08 2471 008273 96499 2600 001SZV  
 AMOUNT: \$104,792.00

CLAUSES INCORPORATED BY REFERENCE

52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	JUL 1995
52.211-17	Delivery of Excess Quantities	SEP 1989
52.212-4	Contract Terms and Conditions--Commercial Items	FEB 2002
52.219-3	Notice of Total HUBZone Set-Aide	JAN 1999
52.219-6	Notice Of Total Small Business Set-Aside	JUL 1996
52.222-3	Convict Labor	AUG 1996
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	APR 2002

52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era and Other Eligible Veterans	DEC 2001
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era and Other Eligible Veterans	DEC 2001
52.225-13	Restrictions on Certain Foreign Purchases	JUL 2000
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	MAY 1999
52.233-3	Protest After Award	AUG 1996
52.242-15	Stop-Work Order	AUG 1989
52.243-5	Changes and Changed Conditions	APR 1984
52.246-1	Contractor Inspection Requirements	APR 1984
52.247-34	F.O.B. Destination	NOV 1991
52.253-1	Computer Generated Forms	JAN 1991
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004	Required Central Contractor Registration	NOV 2001
252.219-7011	Notification to Delay Performance	JUN 1998
252.225-7001	Buy American Act And Balance Of Payments Program	MAR 1998
252.225-7002	Qualifying Country Sources As Subcontractors	DEC 1991
252.225-7009	Duty-Free Entry--Qualifying Country Supplies (End Products and Components)	AUG 2000
252.225-7016	Restriction On Acquisition Of Ball and Roller Bearings	DEC 2000
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.246-7000	Material Inspection And Receiving Report	DEC 1991

#### CLAUSES INCORPORATED BY FULL TEXT

#### 52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS--COMMERCIAL ITEMS (APR 2001) (DEVIATION)

(a) Comptroller General Examination of Record. The Contractor agrees to comply with the provisions of this paragraph (a) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-5, Audit and Records-Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to the right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times, the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of form. This does not require the Contractor to create or maintain any record that the contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(b) The Contractor is not required to include any FAR clause, other than those listed below (and as may be required by an addenda to this paragraph to establish the reasonableness of prices under Part 15), in a subcontract for commercial items or commercial components –

- (1) 52.222-26, Equal Opportunity (E.O. 11246);
- (2) 52.222-35, Affirmative Action for Disabled Veterans and Veterans of the Vietnam Era (38 U.S.C. 4212);
- (3) 52.222-36, Affirmative Action for Workers with Disabilities (29 U.S.C. 793); and
- (4) 52.247-64, Preference for Privately-Owned U.S.- Flag Commercial Vessels (46 U.S.C. 1241)(flow down not required for subcontracts awarded beginning May 1, 1996).
- (5) 52.222-41, the Service Contract Act as Amended (41 U.S.C. 351, et seq.) Subcontracts for certain commercial services may be exempt from coverage if they meet the criteria in FAR 22.1103-4(c) or (d) (see DoD class deviation number 2000-O0006).

(End of clause)

52.223-11 OZONE-DEPLETING SUBSTANCES (MAY 2001)

(a) Definition. Ozone-depleting substance, as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR part 82 as--

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
- (2) Class II, including, but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

“WARNING: Contains (or manufactured with, if applicable), a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.”-----

The Contractor shall insert the name of the substance(s).

(End of clause)

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

HTTP://FARSITE.HILL.AF.MIL

(End of clause)

252.212-7001 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS APPLICABLE TO DEFENSE ACQUISITIONS OF COMMERCIAL ITEMS (APR 2001) (DEVIATION)

(a) In addition to the clauses listed in paragraph (b) of the Contract Terms and Conditions Required to Implement Statutes or Executive Orders--Commercial Items (DEVIATION) clause of this contract, the Contractor shall include the terms of the following clause, if applicable, in subcontracts for commercial items or commercial components, awarded at any tier under this contract:

- 252.225-7014 Preference for Domestic Specialty Metals, Alternate I (MAR 1998) (10 U.S.C. 2533a).
- 252.247-7023 Transportation of Supplies by Sea (MAR 2000) (10 U.S.C. 2631)
- 252.247-7024 Notification of Transportation of Supplies by Sea (MAR 2000) (10 U.S.C. 2631)

(End of clause)

SPECIFICATION

GEAR DRIVES

PART 1 - GENERAL

1-1. SCOPE. This procurement spec covers the supply of five gear drives as specified herein. The gear drives shall replace existing units of similar design and shall be driven by existing variable speed motors.

1-2. GENERAL. Each gear drive unit shall be complete with an adjustable slide rails for floor mounting, a motor adapter to accommodate the existing drive motors, and all other appurtenances specified or otherwise required for proper operation.

1-3. SUBMITTALS. Complete assembly and installation drawings, together with detailed specifications and data covering materials and accessories forming a part of the equipment furnished, shall be submitted for approval. Data and specifications for each unit shall include, but shall not be limited to, the following:

- Input and output speeds, exact gear ratios, and service factor (24 hour continuous service) of gear reducers.
- Horsepower requirements.
- Details of adjustable floor mounted slide rails for mounting the gear drives.

PART 2 - PRODUCTS

2-1. SERVICE CONDITIONS. The gear drives will be used to drive paddles for mechanical agitation of water in flocculation basins. Drive units will be mounted within the dry well area of the flocculation basins and shall be suitable for outdoor operation with exposure to rain and snow.

2-2. PERFORMANCE AND DESIGN REQUIREMENTS. The flocculator gear drives shall be designed, built, and rated in accordance with the current AGMA Standard 6010-F97. The AGMA calculated drive HP rating shall be stamped on their respective drive nameplate and shall comply with the following:

- Flocculator Drive #1: Minimum horsepower rating of 15 HP based on 1800RPM input with a ratio of 253:1. (2-Required)

- Flocculator Drive #2: Minimum horsepower rating of 10 HP based on 1800RPM input with a ratio of 247:1. (1-Required)
- Flocculator Drive #3: Minimum horsepower rating of 10 HP based on 1800RPM input with a ratio of 247:1. (1-Required)
- Flocculator Drive #4: Minimum horsepower rating of 10 HP based on 1800RPM input with a ratio of 247:1. (1-Required)

Ratings based on standards other than AGMA will not be accepted.

2-3. MATERIALS. Drive housings shall be of high quality close-grained cast iron, or fabricated steel, stress relieved and reinforced, and shall be provided with lifting lugs or holes. Each unit will be provided with sliding bases suitable for mounting on the existing structure. Gearing shall be of AGMA Quality No. 10 (ten) or better, per AGMA standard 390.03a and ANSI/AGMA 2000-A88.

2-4. CONSTRUCTION. The gear reducer shall be a horizontal right angle with a combination of helical and spiral bevel or worm gearing with a solid output shaft to match the existing drives output shaft and keyway. Gear drive bearings shall have a minimum L-10 life of 100,000 hours based on the latest AFBMA standards when operating at the maximum rated motor horsepower and speed.

All gearing shall be contained within a single housing and shall be lubricated by a common oil bath. Auxiliary gear drives to obtain double or triple reduction is not allowed. Double worm and or planetary gear assemblies are not acceptable. All bearings and gears being immersed in oil shall accomplish lubrication of each speed reducer. Thermal rating of the gear reducer must exceed design mechanical rating. No external cooling devices are allowed. The gear drives shall have a flanged motor mount to accept the existing drive motors.

2-4.01. Fabrication. All welded joints that will be fully or partially submerged shall be sealed watertight by continuous welds.

2-4.02. Edge Grinding. Sharp projections of cut or sheared edges of ferrous metals, other than stainless steel, which will be submerged in operation, shall be ground to a radius as required to ensure satisfactory coating adherence.

2-4.03. Vibrations. The maximum vibration velocity for the gear reducer shall not exceed 0.3-inches per second at any filtered discrete frequency as measured on any rigid section of the gear reducer housing, in three orthogonal directions axial and perpendicular to the axis of gear rotation in accordance with ANSI/AGMA 6000-B96, specification for "Measurement of Linear Vibration on Gear Units".

2-5. OPERATING NOISE LEVELS. The full load operating noise levels of the flocculator drives shall meet current OSHA Occupational noise standards, and/or AGMA standard 299.1, and shall not exceed 85 dBA at 3 feet from any part of the drive assembly.

2-6. ACCEPTABLE MANUFACTURERS. The gear drives shall be as manufactured by Philadelphia Mixers Corporation or approved equal. The associated cost and liability of reviewing alternate designs will be the sole responsibility of the supplier.

### PART 3 - EXECUTION

3-1. INSTALLATION. Installation will be by others.

End of Section