

<b>SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS</b> <i>OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, AND 30</i>				1. REQUISITION NUMBER 96311M-3091-3749		PAGE 1 OF 12		
2. CONTRACT NO.		3. AWARD/EFFECTIVE DATE	4. ORDER NUMBER		5. SOLICITATION NUMBER DACW31-03-T-0053		6. SOLICITATION ISSUE DATE 22-Apr-2003	
7. FOR SOLICITATION INFORMATION CALL:		a. NAME SANDRA L WICKS			b. TELEPHONE NUMBER (No Collect Calls) 410-962-3987	8. OFFER DUE DATE/LOCAL TIME 04:00 PM 08 May 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: 3594 SIZE STANDARD:500			11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE	12. DISCOUNT TERMS	
15. DELIVER TO PLANNING & ENGR BRANCH DAVID MACGREGOR 5900 MACARTHUR BLVD NW WASHINGTON DC 20315-0220 TEL: (202) 764-2799 FAX:		CODE E250700	16. ADMINISTERED BY					CODE
17a. CONTRACTOR/OFFEROR		CODE	18a. PAYMENT WILL BE MADE BY				CODE	
TEL.		FACILITY CODE						
<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	23. UNIT PRICE	24. AMOUNT
<b>SEE SCHEDULE</b>								
25. ACCOUNTING AND APPROPRIATION DATA							26. TOTAL AWARD AMOUNT	
<input checked="" 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 checked="" 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>2</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 <input type="checkbox"/> OFFER DATED . YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:			
30a. SIGNATURE OF OFFEROR/CONTRACTOR				31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)			31c. DATE SIGNED	
30b. NAME AND TITLE OF SIGNER (TYPE OR PRINT)		30c. DATE SIGNED		31b. NAME OF CONTRACTING OFFICER (TYPE OR PRINT)				
				TEL:			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	34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR		
				PARTIAL	FINAL			
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	Chemical Bldg Coagulant Pumps FFP Two magnetically driven, seal-less centrifugal Coagulant Transfer Pumps in accordance with the attached specifications. Contractor must be registered with the Central Contractor Registration (CCR) Please contact the website for additional information at <a href="http://www.ccr.gov">www.ccr.gov</a> or telephone 1-888-CCR-2423 to obtain a package to complete. Award will not be issued to an unregistered vendor. Vendor must submit the following information with bid response: Tax identification number (TIN), Dun & Bradstreet number and cage code number. Requestor: David Macgregor @ (202) 764-2799 POC (Contracting Office) Sandy Wicks @ (410) 962-3987 Fax (410) 962-0933 PURCHASE REQUEST NUMBER: 96311M-3091-3749	1	Lump Sum		

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NET AMT

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

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
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0001	08-MAY-2003	1	PLANNING & ENGR BRANCH DAVID MACGREGOR 5900 MACARTHUR BLVD NW WASHINGTON DC 20315-0220 (202) 764-2799 FOB: Destination	E250700
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## CLAUSES INCORPORATED BY REFERENCE

52.211-17	Delivery of Excess Quantities	SEP 1989
52.212-1	Instructions to Offerors--Commercial Items	OCT 2000
52.212-4	Contract Terms and Conditions--Commercial Items	FEB 2002
52.214-34	Submission Of Offers In The English Language	APR 1991
52.214-35	Submission Of Offers In U.S. Currency	APR 1991
52.219-3	Notice of Total HUBZone Set-Aide	JAN 1999
52.219-6	Notice Of Total Small Business Set-Aside	JUL 1996
52.219-6 Alt I	Notice of Total Small Business Set-Aside (Jul 1996) - Alternate I	OCT 1995
52.222-3	Convict Labor	AUG 1996
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	APR 2002
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.225-13	Restrictions on Certain Foreign Purchases	JUL 2000
52.232-28	Invitation to Propose Performance-Based Payments	MAR 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

52.207-4 ECONOMIC PURCHASE QUANTITY--SUPPLIES (AUG 1987)

(a) Offerors are invited to state an opinion on whether the quantity(ies) of supplies on which bids, proposals or quotes are requested in this solicitation is (are) economically advantageous to the Government.

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Each offeror who believes that acquisitions in different quantities would be more advantageous is invited to recommend an economic purchase quantity. If different quantities are recommended, a total and a unit price must be quoted for applicable items. An economic purchase quantity is that quantity at which a significant price break occurs. If there are significant price breaks at different quantity points, this information is desired as well.

OFFEROR RECOMMENDATIONS			
PRICE			
ITEM	QUANTITY	QUOTATION	TOTAL

(c) The information requested in this provision is being solicited to avoid acquisitions in disadvantageous quantities and to assist the Government in developing a data base for future acquisitions of these items. However, the Government reserves the right to amend or cancel the solicitation and resolicit with respect to any individual item in the event quotations received and the Government's requirements indicate that different quantities should be acquired.

(End of provision)

52.212-2 EVALUATION--COMMERCIAL ITEMS (JAN 1999)

(a) The Government will award a contract resulting from this solicitation to the responsible offeror whose offer conforming to the solicitation will be most advantageous to the Government, price and other factors considered. The following factors shall be used to evaluate offers:

- (i) technical capability of the item offered to meet the Government requirement
- (ii) price performance
- (iii) past performance

Technical and past performance, when combined, are Significant.

(b) Options. The Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. The Government may determine that an offer is unacceptable if the option prices are significantly unbalanced. Evaluation of options shall not obligate the Government to exercise the option(s).

(c) A written notice of award or acceptance of an offer, mailed or otherwise furnished to the successful offeror within the time for acceptance specified in the offer, shall result in a binding contract without further action by either party. Before the offer's specified expiration time, the Government may accept an offer (or part of an offer), whether or not there are negotiations after its receipt, unless a written notice of withdrawal is received before award.

(End of clause)

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)

52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (FEB 1999)

The offeror represents that --

(a) ( ) It has, ( ) has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation;

(b) ( ) It has, ( ) has not, filed all required compliance reports; and

(c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

(End of provision)

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)

52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions 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. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://farsite.hill.af.mil>

(End of provision)

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)

52.252-5 AUTHORIZED DEVIATIONS IN PROVISIONS (APR 1984)

- (a) The use in this solicitation of any Federal Acquisition Regulation (48 CFR Chapter 1) provision with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the provision.
- (b) The use in this solicitation of any \_\_\_\_\_ (48 CFR Chapter \_\_\_\_\_) provision with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

(End of provision)

52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

- (a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.
- (b) The use in this solicitation or contract of any \_\_\_\_\_ (48 CFR \_\_\_\_\_) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

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)

252.225-7000 BUY AMERICAN ACT--BALANCE OF PAYMENTS PROGRAM CERTIFICATE (SEP 1999)

- (a) Definitions. Domestic end product, qualifying country, qualifying country end product, and qualifying country end product have the meanings given in the Buy American Act and Balance of Payments Program clause of this solicitation.
- (b) Evaluation. Offers will be evaluated by giving preference to domestic end products and qualifying country end products over nonqualifying country end products.
- (c) Certifications. (1) The Offeror certifies that--

- (i) Each end product, except those listed in paragraphs (c) (2) or (3) of this provision, is a domestic end product; and
- (ii) Components of unknown origin are considered to have been mined, produced, or manufactured outside the United States or a qualifying country.

(2) The Offeror certifies that the following end products are qualifying country end products:

Qualifying Country End Products

Line Item Number

Country of Origin

\_\_\_\_\_

(List only qualifying country end products.)

(3) The Offeror certifies that the following end products are nonqualifying country end products:

Nonqualifying Country End Products

Line Item Number

Country of Origin (If known)

\_\_\_\_\_

(End of provision)

SPECIFICATIONS

## COAGULANT TRANSFER PUMPS

### PART 1 - GENERAL

1-1. SCOPE. This procurement spec covers the supply of two magnetically driven, seal-less centrifugal pumps.

1-2. GENERAL. Each pumping unit shall be complete with a pump, electric motor, flexible coupling, pedestal, sub-base, anchor bolts, and all other appurtenances specified or otherwise required for proper operation. Power supply to equipment will be 480 volts, 60 Hz, 3 phase.

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

#### Pumps

- Name of manufacturer.
- Type and model.
- Rotative speed.
- Size of suction and discharge ports.
- Net weight of pump and total unit.
- Complete performance curves showing capacity versus head, NPSH required, efficiency, and brake horsepower.

#### Motors

- Name of manufacturer.
- Type and model.
- Type of bearings and method of lubrication.
- Rated size of motor, hp.
- Temperature rating.
- Full load rotative speed.
- Efficiency at full, 3/4, and 1/2 load.
- Full load current and locked rotor current.

## PART 2 - PRODUCTS

### 2-1. SERVICE CONDITIONS.

Each pumping unit shall be of the non-metallic, magnetically coupled, synchronous drive, seal-less centrifugal pump rated for 150 gpm at 100 ft of TDH when pumping Aluminum sulfate with net positive suction head (NPSH) of 9.3 and fluid specific gravity of 1.34. The new pumps will replace existing ANSIMAG pumps model K326-CB x 5.5 and shall be as manufactured by ANSIMAG or approved equal. The new pumping units shall fit in the existing pump location and connect to the existing suction and discharge lines without requiring major modification.

2-2. PERFORMANCE AND DESIGN REQUIREMENTS. Each pumping unit shall be designed for the following operating conditions:

Number of units	2
Rated TDH with NPSH of 9.3, feet	100
Capacity at rated head, gpm	150
Specific Gravity of Liquid	1.34
Viscosity, SSU	25
pH	3.0
NPSHa, feet	FLOODED (varies)
Min. pump efficiency at rated head, %	65
Operating temperature range, F	-20 to 110
Maximum slurry size, inches	0.005
Maximum slurry content, %	5
Maximum solid diameter, inches	1/32
Max (nominal) pump operating speed at rated head, rpm	3600

Motor horsepower, hp	10
Pump nozzle size, inches	
Suction	3
Discharge	2
Nominal impeller diameter, inches	5.5

Pump performance shall be stable and free from cavitation and noise throughout the operating head range.

### 2-3. MATERIALS.

Casing: Solid ductile iron casing lined with rotomolded ETFE lining.  
 Impeller Carbon fiber filled with ETFE fluoropolymer.

Shaft Silicon carbide

Magnets Neodymium Iron Boron

Rear Casing CFR ETFE with composite cover

### 2-4. PUMP CONSTRUCTION.

2-4.01. Casing Assembly. The casing shall meet ANSI B73.1-1991 foot and flange position and size standard. The casing assembly shall be self-venting and top centerline discharge.

2-4.02. Impeller. The impeller shall be enclosed, one-piece injection molding of carbon fiber reinforced ETFE, non-metallic construction with fully encapsulated magnets. Impeller shall be a replaceable type with press-fit main bushing.

2-4.03. Shaft. Shaft shall have a minimum 1.25: diameter. The one piece, solid construction, sintered silicon carbide shall be non-rotating, fully supported at both ends utilizing front shaft support and rear casing. Shaft shall be provided with axial groove for improved lubrication and particulate bypass.

2-4.04. Rear Casing. Rear casing construction shall be per ANSI/ASME B73.1 Pressure and Temperature rating for Class 150 flanges. Rear casing shall be constructed of the same material as the impeller, minimum 0.100" thickness. Rear casing burst pressure shall be 6 times rated pressure. Or 1,700 psi minimum. The design of the rear casing shall eliminate additional energy loss due to eddy currents from magnetic coupling.

2-5. ACCESSORIES. Each pump shall be provided with lifting eyebolts or lugs.

2-6. BALANCE. All rotating parts shall be accurately machined and shall be in as nearly perfect rotational balance as practicable. Excessive vibration shall be sufficient cause for rejection of the equipment. The mass of the unit and its distribution shall be such that resonance at normal operating speeds is avoided.

2-7. DRIVE MOTORS. Each pumping unit shall be provided with a single speed motor confirming to NEMA MG 1 and UL 1004 for motors. Power supply to the motors shall be 480 volts, 3 phase, 60 Hz.

### PART 3 - EXECUTION

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

End of Section