

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS <i>OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, AND 30</i>				1. REQUISITION NUMBER W56MES81082421		PAGE 1 OF 21	
2. CONTRACT NO.		3. AWARD/EFFECTIVE DATE		4. ORDER NUMBER		5. SOLICITATION NUMBER W911XK-08-T-0099	
6. SOLICITATION ISSUE DATE 19-Jun-2008		7. FOR SOLICITATION INFORMATION CALL:		a. NAME JOANN A BRYANT		b. TELEPHONE NUMBER (No Collect Calls) (906) 635-3494	
8. OFFER DUE DATE/LOCAL TIME 02:00 PM 02 Jul 2008		9. ISSUED BY CONTRACTING DIVISION DETROIT DISTRICT, USAED 477 MICHIGAN AVE. DETROIT MI 48226 TEL: (313) 226-5148 FAX: (313) 226-2209		CODE W911XK		10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED <input type="checkbox"/> SET ASIDE: % FOR <input type="checkbox"/> SB <input type="checkbox"/> HUBZONE SB <input type="checkbox"/> 8(A) <input type="checkbox"/> SVC-DISABLED VET-OWNED SB <input type="checkbox"/> EMERGING SB SIZE STD: 500 NAICS: 334513	
11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE		12. DISCOUNT TERMS		13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700) <input type="checkbox"/>		13b. RATING	
14. METHOD OF SOLICITATION <input checked="" type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP		15. DELIVER TO SOO AREA OFFIC 119 E. WATER ST. SAULT STE. MARIE MI 49783-2445 TEL: FAX:		CODE		16. ADMINISTERED BY CODE	
17a. CONTRACTOR/OFFEROR CODE		18a. PAYMENT WILL BE MADE BY CODE		FACILITY CODE		TEL.	
<input type="checkbox"/> 17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER		<input type="checkbox"/> 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				26. TOTAL AWARD AMOUNT (For Govt. Use Only)			
<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 <input type="checkbox"/> 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:			

**SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS
(CONTINUED)**

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/ SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
<p>SEE SCHEDULE</p>					

32a. QUANTITY IN COLUMN 21 HAS BEEN
 RECEIVED INSPECTED ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED: _____

32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE
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32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE	32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE
	32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE

33. SHIP NUMBER <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR	36. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	37. CHECK NUMBER
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38. S/R ACCOUNT NUMBER	39. S/R VOUCHER NUMBER	40. PAID BY
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41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT	42a. RECEIVED BY (<i>Print</i>)	
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER	41c. DATE	42b. RECEIVED AT (<i>Location</i>)
		42c. DATE REC'D (<i>YY/MM/DD</i>)

Section SF 1449 - CONTINUATION SHEET

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	UPGRADE EXISTING SCADA SYSTEM AT THE FFP HYDROPOWER PLANT SOO AREA OFFICE. NOTE: SEE SPECIFICATIONS FOR ADDITIONAL DETAILS. FOB: Destination MILSTRIP: W56MES81082421 PURCHASE REQUEST NUMBER: W56MES81082421	1	Lump Sum		
				NET AMT	

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	01-JUL-2008	1	SOO AREA OFFIC 119 E. WATER ST. SAULT STE. MARIE MI 49783-2445 FOB: Destination	

CLAUSES INCORPORATED BY REFERENCE

52.204-7	Central Contractor Registration	APR 2008
52.212-1	Instructions to Offerors--Commercial Items	APR 2008
52.212-4	Contract Terms and Conditions--Commercial Items	FEB 2007

CLAUSES INCORPORATED BY FULL TEXT

52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS--COMMERCIAL ITEMS (APR 2008)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses, which are incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

(1) 52.233-3, Protest After Award (AUG 1996) (31 U.S.C. 3553).

(2) 52.233-4, Applicable Law for Breach of Contract Claim (OCT 2004) (Pub. L. 108-77, 108-78).

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items: (Contracting Officer check as appropriate.)

(1) 52.203-6, Restrictions on Subcontractor Sales to the Government (SEP 2006), with Alternate I (OCT 1995) (41 U.S.C. 253g and 10 U.S.C. 2402).

(2) 52.219-3, Notice of HUBZone Small Business Set-Aside (Jan 1999) (15 U.S.C. 657a).

(3) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (JUL 2005) (if the offeror elects to waive the preference, it shall so indicate in its offer) (15 U.S.C. 657a).

(4) [Removed].

X

(5)(i) 52.219-6, Notice of Total Small Business Set-Aside (JUNE 2003) (15 U.S.C. 644).

(ii) Alternate I (OCT 1995) of 52.219-6.

(iii) Alternate II (MAR 2004) of 52.219-6.

(6)(i) 52.219-7, Notice of Partial Small Business Set-Aside (JUNE 2003) (15 U.S.C. 644).

(ii) Alternate I (OCT 1995) of 52.219-7.

(iii) Alternate II (MAR 2004) of 52.219-7.

X

(7) 52.219-8, Utilization of Small Business Concerns (MAY 2004) (15 U.S.C. 637 (d)(2) and (3)).

(8)(i) 52.219-9, Small Business Subcontracting Plan (APR 2008) (15 U.S.C. 637(d)(4)).

(ii) Alternate I (OCT 2001) of 52.219-9

(iii) Alternate II (OCT 2001) of 52.219-9.

(9) 52.219-14, Limitations on Subcontracting (DEC 1996) (15 U.S.C. 637(a)(14)).

(10) 52.219-16, Liquidated Damages--Subcontracting Plan (JAN 1999) (15 U.S.C. 637(d)(4)(F)(i)).

(11)(i) 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns (SEP 2005) (10 U.S.C. 2323) (if the offeror elects to waive the adjustment, it shall so indicate in its offer).

(ii) Alternate I (JUNE 2003) of 52.219-23.

(12) 52.219-25, Small Disadvantaged Business Participation Program--Disadvantaged Status and Reporting (APR 2008) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).

___ (13) 52.219-26, Small Disadvantaged Business Participation Program--Incentive Subcontracting (OCT 2000) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).

___ (14) 52.219-27, Notice of Total Service-Disabled Veteran-Owned Small Business Set-Aside (MAY 2004) (U.S.C. 657 f).

___ (15) 52.219-28, Post Award Small Business Program Rerepresentation (JUNE 2007) (15 U.S.C. 632(a)(2)).

X

___ (16) 52.222-3, Convict Labor (JUNE 2003) (E.O. 11755).

___ (17) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (FEB 2008) (E.O. 13126).

X

___ (18) 52.222-21, Prohibition of Segregated Facilities (FEB 1999).

X

___ (19) 52.222-26, Equal Opportunity (MAR 2007) (E.O. 11246).

___ (20) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (SEP 2006) (38 U.S.C. 4212).

X

___ (21) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793).

___ (22) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (SEP 2006) (38 U.S.C. 4212).

___ (23) 52.222-39, Notification of Employee Rights Concerning Payment of Union Dues or Fees (DEC 2004) (E.O. 13201).

___ (24)(i) 52.222-50, Combating Trafficking in Persons (AUG 2007) (Applies to all contracts).

___ (ii) Alternate I (AUG 2007) of 52.222-50.

___ (25)(i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (AUG 2000) (42 U.S.C. 6962(c)(3)(A)(ii)).

___ (ii) Alternate I (AUG 2000) of 52.223-9 (42 U.S.C. 6962(i)(2)(c)).

___ (26) FAR 52.223-15, Energy Efficiency in Energy-Consuming Products (DEC 2007) (42 U.S.C. 8259b)

___ (27)(i) 52.223-16, IEEE 1680 Standard for the Environmental Assessment of Personal Computer Products (DEC 2007) (E.O. 13423).

___ (ii) Alternate I (DEC 2007) of 52.223-16.

X

___ (28) 52.225-1, Buy American Act--Supplies (JUNE 2003) (41 U.S.C. 10a-10d).

___ (29)(i) 52.225-3, Buy American Act--Free Trade Agreements--Israeli Trade Act (AUG 2007) (41 U.S.C. 10a-10d, 19 U.S.C. 3301 note, 19 U.S.C. 2112 note, Pub. L 108-77, 108-78, 108-286, 109-53 and 109-169).

___ (ii) Alternate I (JAN 2004) of 52.225-3.

___ (iii) Alternate II (JAN 2004) of 52.225-3.

___ (30) 52.225-5, Trade Agreements (Nov 2007) (19 U.S.C. 2501, et seq., 19 U.S.C. 3301 note).

___ (31) 52.225-13, Restrictions on Certain Foreign Purchases (FEB 2006) (E.O.s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of Treasury).

___ (32) 52.226-4, Notice of Disaster or Emergency Area Set-Aside (Nov 2007) (42 U.S.C. 5150).

___ (33) 52.226-5, Restrictions on Subcontracting Outside Disaster or Emergency Area (Nov 2007) (42 U.S.C. 5150).

___ (34) 52.232-29, Terms for Financing of Purchases of Commercial Items (FEB 2002) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).

___ (35) 52.232-30, Installment Payments for Commercial Items (OCT 1995) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).

___ (36) 52.232-33, Payment by Electronic Funds Transfer--Central Contractor Registration (OCT 2003) (31 U.S.C. 3332).

___ (37) 52.232-34, Payment by Electronic Funds Transfer--Other than Central Contractor Registration (MAY 1999) (31 U.S.C. 3332).

___ (38) 52.232-36, Payment by Third Party (MAY 1999) (31 U.S.C. 3332).

___ (39) 52.239-1, Privacy or Security Safeguards (AUG 1996) (5 U.S.C. 552a).

___ (40)(i) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) (46 U.S.C. Appx 1241(b) and 10 U.S.C. 2631).

___ (ii) Alternate I (APR 2003) of 52.247-64.

(c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items: (Contracting Officer check as appropriate.)

___ (1) 52.222-41, Service Contract Act of 1965 (Nov 2007) (41 U.S.C. 351, et seq.).

___ (2) 52.222-42, Statement of Equivalent Rates for Federal Hires (MAY 1989) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).

___ (3) 52.222-43, Fair Labor Standards Act and Service Contract Act--Price Adjustment (Multiple Year and Option Contracts) (NOV 2006) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).

___ (4) 52.222-44, Fair Labor Standards Act and Service Contract Act--Price Adjustment (February 2002) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).

___ (5) 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (Nov 2007) (41 U.S.C. 351, et seq.).

___ (6) 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services--Requirements (Nov 2007) (41 U.S.C. 351, et seq.).

___ (7) 52.237-11, Accepting and Dispensing of \$1 Coin (AUG 2007)(31 U.S.C. 5112(p)(1)).

(d) Comptroller General Examination of Record. The Contractor shall comply with the provisions of this paragraph (d) 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 52.215-2, Audit and Records--Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and 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 type and 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.

(e) (1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c), and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in paragraphs (i) through (vi) of this paragraph in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause--

(i) 52.219-8, Utilization of Small Business Concerns (May 2004) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$550,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(ii) 52.222-26, Equal Opportunity (MAR 2007) (E.O. 11246).

(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (SEP 2006) (38 U.S.C. 4212).

(iv) 52.222-36, Affirmative Action for Workers with Disabilities (June 1998) (29 U.S.C. 793).

(v) 52.222-39, Notification of Employee Rights Concerning Payment of Union Dues or Fees (DEC 2004) (E.O. 13201).

(vi) 52.222-41, Service Contract Act of 1965 (Nov 2007) (41 U.S.C. 351, et seq.).

(vii) 52.222-50, Combating Trafficking in Persons (AUG 2007) (22 U.S.C. 7104(g)). Flow down required in accordance with paragraph (f) of FAR clause 52.222-50.

(viii) 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (Nov 2007) (41 U.S.C. 351, et seq.).

(ix) 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services--Requirements (Nov 2007) (41 U.S.C. 351, et seq.).

(x) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) (46 U.S.C. Appx 1241(b) and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the contractor May include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(End of clause)

WAGE DETERMINATION

WD 05-2279 (Rev.-7) was first posted on www.wdol.gov on 06/03/2008

REGISTER OF WAGE DETERMINATIONS UNDER | U.S. DEPARTMENT OF LABOR
 THE SERVICE CONTRACT ACT | EMPLOYMENT STANDARDS ADMINISTRATION
 By direction of the Secretary of Labor | WAGE AND HOUR DIVISION
 | WASHINGTON D.C. 20210

Wage Determination No.: 2005-2279

Shirley F. Ebbesen Division of | Revision No.: 7
 Director Wage Determinations| Date Of Revision: 05/29/2008

State: Michigan

Area: Michigan Counties of Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic,
 Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon,
 Schoolcraft

Fringe Benefits Required Follow the Occupational Listing

OCCUPATION CODE - TITLE	MINIMUM WAGE RATE
01000 - Administrative Support And Clerical Occupations	
01011 - Accounting Clerk I	12.73
01012 - Accounting Clerk II	14.80
01013 - Accounting Clerk III	19.42
01020 - Administrative Assistant	19.57
01040 - Court Reporter	19.61
01051 - Data Entry Operator I	12.14
01052 - Data Entry Operator II	13.28
01060 - Dispatcher, Motor Vehicle	16.91
01070 - Document Preparation Clerk	11.87
01090 - Duplicating Machine Operator	11.87
01111 - General Clerk I	11.86
01112 - General Clerk II	15.60
01113 - General Clerk III	17.71
01120 - Housing Referral Assistant	17.66
01141 - Messenger Courier	11.23
01191 - Order Clerk I	12.03
01192 - Order Clerk II	13.05
01261 - Personnel Assistant (Employment) I	14.50
01262 - Personnel Assistant (Employment) II	16.22
01263 - Personnel Assistant (Employment) III	18.09
01270 - Production Control Clerk	18.80
01280 - Receptionist	11.47
01290 - Rental Clerk	9.36
01300 - Scheduler, Maintenance	12.21
01311 - Secretary I	12.21

01312 - Secretary II	15.88
01313 - Secretary III	17.66
01320 - Service Order Dispatcher	14.26
01410 - Supply Technician	19.57
01420 - Survey Worker	13.19
01531 - Travel Clerk I	11.84
01532 - Travel Clerk II	12.86
01533 - Travel Clerk III	13.92
01611 - Word Processor I	12.13
01612 - Word Processor II	13.93
01613 - Word Processor III	15.56
05000 - Automotive Service Occupations	
05005 - Automobile Body Repairer, Fiberglass	18.79
05010 - Automotive Electrician	17.31
05040 - Automotive Glass Installer	16.59
05070 - Automotive Worker	16.59
05110 - Mobile Equipment Servicer	15.35
05130 - Motor Equipment Metal Mechanic	17.84
05160 - Motor Equipment Metal Worker	16.59
05190 - Motor Vehicle Mechanic	18.24
05220 - Motor Vehicle Mechanic Helper	14.63
05250 - Motor Vehicle Upholstery Worker	16.06
05280 - Motor Vehicle Wrecker	16.59
05310 - Painter, Automotive	17.31
05340 - Radiator Repair Specialist	16.59
05370 - Tire Repairer	14.83
05400 - Transmission Repair Specialist	17.84
07000 - Food Preparation And Service Occupations	
07010 - Baker	14.10
07041 - Cook I	13.02
07042 - Cook II	14.10
07070 - Dishwasher	10.61
07130 - Food Service Worker	10.61
07210 - Meat Cutter	15.51
07260 - Waiter/Waitress	11.21
09000 - Furniture Maintenance And Repair Occupations	
09010 - Electrostatic Spray Painter	18.48
09040 - Furniture Handler	13.88
09080 - Furniture Refinisher	18.48
09090 - Furniture Refinisher Helper	15.41
09110 - Furniture Repairer, Minor	16.95
09130 - Upholsterer	18.48
11000 - General Services And Support Occupations	
11030 - Cleaner, Vehicles	10.61
11060 - Elevator Operator	10.61
11090 - Gardener	14.62
11122 - Housekeeping Aide	10.61
11150 - Janitor	10.91
11210 - Laborer, Grounds Maintenance	12.59
11240 - Maid or Houseman	10.00
11260 - Pruner	12.00
11270 - Tractor Operator	13.94
11330 - Trail Maintenance Worker	12.59
11360 - Window Cleaner	11.53

12000 - Health Occupations		
12010 - Ambulance Driver	14.00	
12011 - Breath Alcohol Technician	16.11	
12012 - Certified Occupational Therapist Assistant	20.51	
12015 - Certified Physical Therapist Assistant	17.90	
12020 - Dental Assistant	14.54	
12025 - Dental Hygienist	28.41	
12030 - EKG Technician	18.02	
12035 - Electroneurodiagnostic Technologist	18.02	
12040 - Emergency Medical Technician	14.00	
12071 - Licensed Practical Nurse I	14.36	
12072 - Licensed Practical Nurse II	16.11	
12073 - Licensed Practical Nurse III	18.01	
12100 - Medical Assistant	13.38	
12130 - Medical Laboratory Technician	18.43	
12160 - Medical Record Clerk	12.74	
12190 - Medical Record Technician	14.89	
12195 - Medical Transcriptionist	13.47	
12210 - Nuclear Medicine Technologist	25.98	
12221 - Nursing Assistant I	9.86	
12222 - Nursing Assistant II	11.08	
12223 - Nursing Assistant III	12.08	
12224 - Nursing Assistant IV	13.57	
12235 - Optical Dispenser	14.98	
12236 - Optical Technician	14.40	
12250 - Pharmacy Technician	12.19	
12280 - Phlebotomist	13.57	
12305 - Radiologic Technologist	22.23	
12311 - Registered Nurse I	19.47	
12312 - Registered Nurse II	23.84	
12313 - Registered Nurse II, Specialist	23.84	
12314 - Registered Nurse III	28.84	
12315 - Registered Nurse III, Anesthetist	28.84	
12316 - Registered Nurse IV	34.54	
12317 - Scheduler (Drug and Alcohol Testing)	19.96	
13000 - Information And Arts Occupations		
13011 - Exhibits Specialist I	17.58	
13012 - Exhibits Specialist II	21.77	
13013 - Exhibits Specialist III	26.64	
13041 - Illustrator I	17.58	
13042 - Illustrator II	21.77	
13043 - Illustrator III	26.64	
13047 - Librarian	24.12	
13050 - Library Aide/Clerk	12.79	
13054 - Library Information Technology Systems Administrator	21.77	
13058 - Library Technician	13.07	
13061 - Media Specialist I	15.08	
13062 - Media Specialist II	16.86	
13063 - Media Specialist III	18.79	
13071 - Photographer I	12.22	
13072 - Photographer II	14.65	
13073 - Photographer III	18.15	
13074 - Photographer IV	22.20	
13075 - Photographer V	26.91	

13110 - Video Teleconference Technician	15.08
14000 - Information Technology Occupations	
14041 - Computer Operator I	14.47
14042 - Computer Operator II	16.20
14043 - Computer Operator III	18.05
14044 - Computer Operator IV	20.05
14045 - Computer Operator V	22.21
14071 - Computer Programmer I (1)	19.24
14072 - Computer Programmer II (1)	25.64
14073 - Computer Programmer III (1)	27.62
14074 - Computer Programmer IV (1)	
14101 - Computer Systems Analyst I (1)	25.14
14102 - Computer Systems Analyst II (1)	
14103 - Computer Systems Analyst III (1)	
14150 - Peripheral Equipment Operator	14.47
14160 - Personal Computer Support Technician	20.05
15000 - Instructional Occupations	
15010 - Aircrew Training Devices Instructor (Non-Rated)	24.56
15020 - Aircrew Training Devices Instructor (Rated)	29.72
15030 - Air Crew Training Devices Instructor (Pilot)	33.42
15050 - Computer Based Training Specialist / Instructor	25.14
15060 - Educational Technologist	25.84
15070 - Flight Instructor (Pilot)	33.42
15080 - Graphic Artist	18.71
15090 - Technical Instructor	18.43
15095 - Technical Instructor/Course Developer	22.54
15110 - Test Proctor	15.69
15120 - Tutor	15.69
16000 - Laundry, Dry-Cleaning, Pressing And Related Occupations	
16010 - Assembler	9.18
16030 - Counter Attendant	9.18
16040 - Dry Cleaner	12.43
16070 - Finisher, Flatwork, Machine	9.18
16090 - Presser, Hand	9.18
16110 - Presser, Machine, Drycleaning	9.18
16130 - Presser, Machine, Shirts	9.18
16160 - Presser, Machine, Wearing Apparel, Laundry	9.18
16190 - Sewing Machine Operator	13.53
16220 - Tailor	14.59
16250 - Washer, Machine	10.26
19000 - Machine Tool Operation And Repair Occupations	
19010 - Machine-Tool Operator (Tool Room)	19.04
19040 - Tool And Die Maker	21.49
21000 - Materials Handling And Packing Occupations	
21020 - Forklift Operator	15.56
21030 - Material Coordinator	18.80
21040 - Material Expediter	18.80
21050 - Material Handling Laborer	11.52
21071 - Order Filler	11.63
21080 - Production Line Worker (Food Processing)	15.56
21110 - Shipping Packer	13.21
21130 - Shipping/Receiving Clerk	13.21
21140 - Store Worker I	13.64
21150 - Stock Clerk	16.53

21210 - Tools And Parts Attendant	15.56
21410 - Warehouse Specialist	15.56
23000 - Mechanics And Maintenance And Repair Occupations	
23010 - Aerospace Structural Welder	22.08
23021 - Aircraft Mechanic I	21.22
23022 - Aircraft Mechanic II	22.08
23023 - Aircraft Mechanic III	22.96
23040 - Aircraft Mechanic Helper	16.89
23050 - Aircraft, Painter	20.37
23060 - Aircraft Servicer	18.61
23080 - Aircraft Worker	19.48
23110 - Appliance Mechanic	18.44
23120 - Bicycle Repairer	14.83
23125 - Cable Splicer	27.17
23130 - Carpenter, Maintenance	19.04
23140 - Carpet Layer	19.48
23160 - Electrician, Maintenance	22.73
23181 - Electronics Technician Maintenance I	21.50
23182 - Electronics Technician Maintenance II	22.47
23183 - Electronics Technician Maintenance III	23.41
23260 - Fabric Worker	17.52
23290 - Fire Alarm System Mechanic	21.22
23310 - Fire Extinguisher Repairer	17.76
23311 - Fuel Distribution System Mechanic	22.50
23312 - Fuel Distribution System Operator	18.78
23370 - General Maintenance Worker	17.22
23380 - Ground Support Equipment Mechanic	21.22
23381 - Ground Support Equipment Servicer	18.61
23382 - Ground Support Equipment Worker	19.48
23391 - Gunsmith I	17.76
23392 - Gunsmith II	19.48
23393 - Gunsmith III	21.22
23410 - Heating, Ventilation And Air-Conditioning Mechanic	20.68
23411 - Heating, Ventilation And Air Contditioning Mechanic (Research Facility)	
21.51	
23430 - Heavy Equipment Mechanic	20.23
23440 - Heavy Equipment Operator	21.48
23460 - Instrument Mechanic	21.22
23465 - Laboratory/Shelter Mechanic	20.36
23470 - Laborer	11.98
23510 - Locksmith	20.36
23530 - Machinery Maintenance Mechanic	20.54
23550 - Machinist, Maintenance	17.46
23580 - Maintenance Trades Helper	14.63
23591 - Metrology Technician I	21.22
23592 - Metrology Technician II	22.07
23593 - Metrology Technician III	22.94
23640 - Millwright	26.06
23710 - Office Appliance Repairer	21.44
23760 - Painter, Maintenance	17.31
23790 - Pipefitter, Maintenance	23.42
23810 - Plumber, Maintenance	22.39
23820 - Pneudraulic Systems Mechanic	21.22
23850 - Rigger	21.22

23870 - Scale Mechanic	19.48	
23890 - Sheet-Metal Worker, Maintenance	22.84	
23910 - Small Engine Mechanic	18.25	
23931 - Telecommunications Mechanic I	23.64	
23932 - Telecommunications Mechanic II	24.58	
23950 - Telephone Lineman	20.49	
23960 - Welder, Combination, Maintenance	17.84	
23965 - Well Driller	21.74	
23970 - Woodcraft Worker	21.22	
23980 - Woodworker	16.54	
24000 - Personal Needs Occupations		
24570 - Child Care Attendant	9.86	
24580 - Child Care Center Clerk	12.29	
24610 - Chore Aide	11.00	
24620 - Family Readiness And Support Services Coordinator	12.46	
24630 - Homemaker	13.64	
25000 - Plant And System Operations Occupations		
25010 - Boiler Tender	22.24	
25040 - Sewage Plant Operator	21.34	
25070 - Stationary Engineer	22.24	
25190 - Ventilation Equipment Tender	17.71	
25210 - Water Treatment Plant Operator	20.94	
27000 - Protective Service Occupations		
27004 - Alarm Monitor	15.43	
27007 - Baggage Inspector	11.27	
27008 - Corrections Officer	19.38	
27010 - Court Security Officer	21.23	
27030 - Detection Dog Handler	13.92	
27040 - Detention Officer	19.38	
27070 - Firefighter	16.91	
27101 - Guard I	11.27	
27102 - Guard II	13.92	
27131 - Police Officer I	20.99	
27132 - Police Officer II	23.32	
28000 - Recreation Occupations		
28041 - Carnival Equipment Operator	12.41	
28042 - Carnival Equipment Repairer	13.02	
28043 - Carnival Equipment Worker	10.61	
28210 - Gate Attendant/Gate Tender	12.73	
28310 - Lifeguard	11.01	
28350 - Park Attendant (Aide)	14.24	
28510 - Recreation Aide/Health Facility Attendant	10.09	
28515 - Recreation Specialist	13.29	
28630 - Sports Official	11.34	
28690 - Swimming Pool Operator	17.06	
29000 - Stevedoring/Longshoremen Occupational Services		
29010 - Blocker And Bracer	19.49	
29020 - Hatch Tender	19.49	
29030 - Line Handler	19.49	
29041 - Stevedore I	20.97	
29042 - Stevedore II	22.56	
30000 - Technical Occupations		
30010 - Air Traffic Control Specialist, Center (HFO) (2)	33.96	
30011 - Air Traffic Control Specialist, Station (HFO) (2)	23.41	

30012 - Air Traffic Control Specialist, Terminal (HFO) (2)	25.79
30021 - Archeological Technician I	15.99
30022 - Archeological Technician II	17.96
30023 - Archeological Technician III	22.24
30030 - Cartographic Technician	23.02
30040 - Civil Engineering Technician	20.33
30061 - Drafter/CAD Operator I	15.98
30062 - Drafter/CAD Operator II	18.58
30063 - Drafter/CAD Operator III	20.72
30064 - Drafter/CAD Operator IV	25.40
30081 - Engineering Technician I	16.01
30082 - Engineering Technician II	17.97
30083 - Engineering Technician III	21.06
30084 - Engineering Technician IV	24.91
30085 - Engineering Technician V	28.60
30086 - Engineering Technician VI	35.03
30090 - Environmental Technician	20.31
30210 - Laboratory Technician	19.75
30240 - Mathematical Technician	23.02
30361 - Paralegal/Legal Assistant I	14.17
30362 - Paralegal/Legal Assistant II	17.55
30363 - Paralegal/Legal Assistant III	21.47
30364 - Paralegal/Legal Assistant IV	25.98
30390 - Photo-Optics Technician	23.02
30461 - Technical Writer I	23.02
30462 - Technical Writer II	26.10
30463 - Technical Writer III	34.07
30491 - Unexploded Ordnance (UXO) Technician I	21.58
30492 - Unexploded Ordnance (UXO) Technician II	26.11
30493 - Unexploded Ordnance (UXO) Technician III	31.30
30494 - Unexploded (UXO) Safety Escort	21.58
30495 - Unexploded (UXO) Sweep Personnel	21.58
30620 - Weather Observer, Combined Upper Air Or Surface Programs (2)	19.59
30621 - Weather Observer, Senior (2)	21.78
31000 - Transportation/Mobile Equipment Operation Occupations	
31020 - Bus Aide	9.44
31030 - Bus Driver	11.63
31043 - Driver Courier	13.51
31260 - Parking and Lot Attendant	9.45
31290 - Shuttle Bus Driver	14.04
31310 - Taxi Driver	10.37
31361 - Truckdriver, Light	14.04
31362 - Truckdriver, Medium	16.34
31363 - Truckdriver, Heavy	16.69
31364 - Truckdriver, Tractor-Trailer	16.69
99000 - Miscellaneous Occupations	
99030 - Cashier	7.94
99050 - Desk Clerk	9.60
99095 - Embalmer	21.58
99251 - Laboratory Animal Caretaker I	11.81
99252 - Laboratory Animal Caretaker II	12.41
99310 - Mortician	21.58
99410 - Pest Controller	18.63
99510 - Photofinishing Worker	12.11

99710 - Recycling Laborer	13.00
99711 - Recycling Specialist	19.29
99730 - Refuse Collector	16.26
99810 - Sales Clerk	10.15
99820 - School Crossing Guard	10.61
99830 - Survey Party Chief	19.02
99831 - Surveying Aide	11.31
99832 - Surveying Technician	17.30
99840 - Vending Machine Attendant	13.65
99841 - Vending Machine Repairer	15.51
99842 - Vending Machine Repairer Helper	13.65

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$3.24 per hour or \$129.60 per week or \$561.60 per month

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 5 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year, New Year's Day, Martin Luther King Jr's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4174)

THE OCCUPATIONS WHICH HAVE PARENTHESES AFTER THEM RECEIVE THE FOLLOWING BENEFITS (as numbered):

1) Under the SCA at section 8(b), this wage determination does not apply to any employee who individually qualifies as a bona fide executive, administrative, or professional employee as defined in 29 C.F.R. Part 541. Because most Computer System Analysts and Computer Programmers who are compensated at a rate not less than \$27.63 (or on a salary or fee basis at a rate not less than \$455 per week) an hour would likely qualify as exempt computer professionals, (29 C.F.R. 541.400) wage rates may not be listed on this wage determination for all occupations within those job families. In addition, because this wage determination may not list a wage rate for some or all occupations within those job families if the survey data indicates that the prevailing wage rate for the occupation equals or exceeds \$27.63 per hour conformances may be necessary for certain nonexempt employees. For example, if an individual employee is nonexempt but nevertheless performs duties within the scope of one of the Computer Systems Analyst or Computer Programmer occupations for which this wage determination does not specify an SCA wage rate, then the wage rate for that employee must be conformed in accordance with the conformance procedures described in the conformance note included on this wage determination.

Additionally, because job titles vary widely and change quickly in the computer industry, job titles are not determinative of the application of the computer professional exemption. Therefore, the exemption applies only to computer employees who satisfy the compensation requirements and whose primary duty consists of:

- (1) The application of systems analysis techniques and procedures, including

consulting with users, to determine hardware, software or system functional specifications;

(2) The design, development, documentation, analysis, creation, testing or modification of computer systems or programs, including prototypes, based on and related to user or system design specifications;

(3) The design, documentation, testing, creation or modification of computer programs related to machine operating systems; or

(4) A combination of the aforementioned duties, the performance of which requires the same level of skills. (29 C.F.R. 541.400).

2) AIR TRAFFIC CONTROLLERS AND WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am.

If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

**** UNIFORM ALLOWANCE ****

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to

this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations", Fifth Edition, April 2006, unless otherwise indicated. Copies of the Directory are available on the Internet. A links to the Directory may be found on the WHD home page at <http://www.dol.gov/esa/whd/> or through the Wage Determinations On-Line (WDOL) Web site at <http://wdol.gov/>.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE {Standard Form 1444 (SF 1444)}

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. {See Section 4.6 (C)(vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation) and computes a proposed rate).
- 2) After contract award, the contractor prepares a written report listing in order proposed classification title), a Federal grade equivalency (FGE) for each proposed classification), job description), and rationale for proposed wage rate), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent

information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4).

- 4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour decision to the contractor.
- 6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper.

When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.

SPECIFICATIONS

SPECIFICATIONS FOR UPGRADING SCADA LICENSES

- A. These salient characteristics are the minimum needed to meet the requirements for supplying a "NPP-Upgrade SCADA System " to the Soo Area Office, Detroit District, U.S. Army Corps of Engineers.
- B. Technical POC is Walt Hart, Chief Hydropower, 906.635.3468.

1. Services to Provide:

- A. To upgrade the existing SCADA system from Intellution iFix Software Version 2.5 operating on Windows NT to Intellution iFix Software Version 4.5 operating on XP Pro. Licensing keys shall be provided by USACE. Soo file structure shall be on D drive per labeling syntax provided by USACE. All application specific files and non-Intellution executable shall run from this directory. IFix shall be installed in default location, typically on C drive. View nodes shall be configured as view nodes within IFix's SCU file, not as SCADA.
- B. Contractor shall provide licensed Allen-Bradley and Modbus communication drivers.
- C. Provide all software modifications required to maintain system at current functionality. This includes the reports, RTU functionality, RCP's, bi-tronics, view-nodes, communication to exciters, and all elements associated with the existing SCADA system.
- D. Production reports shall print on an Ethernet connected printer. USACE shall supply printer. Printer should be HP Color LaserJet CP151ni printer. Make/model subject to change.
- E. Perform hardware maintenance on the auto-sync cabinet. This includes all manufacture preventative maintenance as outlined in their maintenance manuals and adjusting devices to work with a new plant voltage of 13,600 V vs. 13,800 V. Submit maintenance report to the Government upon completion.
- F. Upgrade the entire Ethernet network to 10/100/1000 mbps, full duplex. PLC's can remain at 10 mbps using the existing hardware. Objective is to increase communication rates between SCADA's, view-nodes, buildings, and RCP's. Vendor shall get Intel PRO/1000 MT dual port server adapter card operational to two switches in main control room. This may involve activating

the spanning tree algorithm. This includes the network at Unit 10, Barkley, telephone room, and Unit 10.

- G. Upgrade the simulator. Simulator to retain same form, fit, and function. Simulator shall be fully operational and equivalent to the upgraded SCADA's.
- H. Analyze and configure time sync for all Microsoft computers via commercial software. NO custom code.
- I. Provide "rebuild documentation". Documentation shall specify steps to rebuild SCADA from scratch. Documentation shall specify steps to rebuild View Node from scratch. Documentation shall specify steps to rebuild RCP from scratch.
- J. Provide 8 hours of update support for U10, U3A, Generator Floor, and Office View-nodes. These upgrades to be done per the documentation titled "rebuild documentation" described above. Upgrade to be done by USACE under guidance of SCIPAR.
- K. Provide recommendation for direct, external login to the SAULT. Current method utilizes a fax phone line at Barkley.
- L. Update O&M manual for those components affected by this contract.
- M. Update drawings for those components affected by this contract.
- N. Provide a CD containing all drawings. Electronic drawings shall be in Micro-station format.
- O. Provide 3 sets of hard-copies of all drawings for O&M manuals.
- P. Provide a CD of all software and SIMS required to build a view-node, SCADA, Simulator, or RCP.
- Q. Install equipment at the Soo Hydro Plant. Plant to remain remotely operated during off-shift hours.
- R. Install equipment at the Barkley Hydro Plant. Plant to remain remotely operated during off-shift.

2. Equipment to Supply

- A. Three (3) SCADA computers.
- B. Two (2) Barkley Viewnode computers.
- C. Upgrade all hardware on Simulator.
- D. Replacement of Communication Equipment

3. Minimum Specifications for Three (3) SCADA computers.

- A. Shall be same form, fit, and function as the current SCADA computers.
- B. Computers shall be standard catalog numbers from a recognized manufacture designed for high end processing environments involving accelerated video, hard drive usage, and communication rates.
- C. Minimum of 8GB Memory.
- D. Shall have an Intel PRO/1000 MT dual port server adapter card. This Intel card is running in existing NT computers. Intel PRO card shall be configured for fast, dual port communication with swap over upon communication fault
- E. Includes quality keyboard and wireless mouse for each computer.
- F. 10K rpm 250 GB hard-drive.
- G. Windows XP Pro.
- H. Include SAMSUNG SynMaster 226BW, or equivalent monitor for each computer.
- I. Include Microsoft Excel and Access.

4. Minimum Specifications for Two (2) View Node computers.

Same as for "Three (3) SCADA Computers", except for:
Minimum of 4GB of Memory and 7200 rpm 80 GB hard-drive.

5. Minimum Specifications for Replacement RCP Computers.

- A. Shall be same form, fit, and function as current rack mount computers.
- B. Shall be Windows XP Pro, 4GB of Memory.
- C. Shall have an Intel PRO/1000 MT Dual port server adapter card. This Intel Card is running in existing NT computers. Intel PRO card shall be configured for fast, dual port communication with swap over upon communication fault. Concept was tested during SCIPAR's visit in September

2007.

- D. Include a quality keyboard and wireless mouse in accordance with current system design.
- E. Include a monitor in accordance with current system.

6. Minimum Specification for Upgrade Similar.

- A. To include all equipment and software required to maintain existing functionality.
- B. Supply new computers to entire system.

7. Minimum Specifications for Replacement of Communication Equipment:

- A. Contractor shall supply a switch(s) for Barkley and NPP Control-room in accordance to existing functionality and topology.
- B. Replace existing (2) 3COM 24-port Super Stack Switches. Newer switches shall have fiber and CATV ports. A minimum of four (4) fiber ports.
- C. Replace switches from switch to telephone room.
- D. Replace switches at Barkley to full duplex, 1000Meg/100Meg, auto-sensing.
- E. USACE shall supply two (2) 3COM 4200G 24 Port Switches (Model 3CR17661-91). These can be used as the Contractor desires.
- F. USACE recommends the industrial switch manufactured by Black Box for low density ethernet/fiber drops. (Model - Hardened/Extreme Edge Switch).

8. Minimum Specifications for Replacement PC-Anywhere licenses:

- A. Existing licenses are out-of-date. Contractor shall supply the current version of PC- Anywhere as of 01 June 2008. This software shall be installed on Soo1, Soo2, Barkely1, Barkley2, RCP1, RCP2, with same functionality as existing licensed copiers of PC-Anywhere.
- B. An additional six (6) licenses shall be supplied. (Superintendents Office, CR1, Barkley3, U10, U3a, Generator Floor).

9. Minimum Specifications for Win PE CD-ROM:

WIN PE CD-ROM will be used for GHOST back-ups and restores via the network. This CD-ROM will configure each computer to boot to a dedicated IP address of 192.168.220.254. to perform a GHOST network back-up or restore, GHOST software shall be provided by USACE.