

August 3, 2007

Mr. Steve Scott
Contracting Officer
The U.S. Department of Energy
National Renewable Energy Lab (NREL)
1617 Cole Boulevard
Golden, Colorado

Ph: (303) 275-4724
Fax: N/A
Steve.Scott@go.doe.gov

Subject: ICS Response to SSN & Capabilities Statement

Reference: Sources Sought Notice (SSN) / Sol Number – DE-RP36-07GO97036
M – Management and Operations of the National Renewable Energy Laboratory

Dear Mr. Scott;

On behalf of International Computer Systems, Inc., I would like to inform that ICS, Inc. has **SUBCONTRACTING interest in IT portion** of the Maintenance and Operations Support required at the DOE NREL.

Please add ICS, Inc. as an interested company in the list posted on the DOE website. Thanks.

I am pleased to submit the following information in response to the referenced Sources Sought Notice:

- a. Company Information – 8(a) / SDB
- b. Capabilities Overview
- c. Past Experience and References

Mr. Aslam, the principal of ICS, Inc., a very small SBA certified 8(a) small disadvantaged Business (SDB) has supported the development of a few RL&D type satellite Ground Systems over the years:

- **ICS, Inc.** – NASA's Landsat Data Continuation Mission (LDCM) Ground System Operations Concept for the Development Phase. (August 2002 – June 2004). Presented at SRR and TIMs.
- **ICS, Inc.** – NASA's MODIS Data Processing System (MEBS/MODAPS) for the ECS Terra and Aqua Spacecrafts (August 1997 – December 2002). Presented at MEBS TRR and MODAPS SIPS ICD PDR.
- **Hughes/Raytheon** – EOSDIS Release B Plans and Demos for the NASA's ECS DAAC (1996 – 1997)
- **CSC** – NASA's Landsat 7 Data Processing System for ETM+ Processing (LPS) (1994 – 1996)
Presented at SRR, PDR and CDR and at TIMs. Reviewed and supported TRR.
- **CSC** – NASA's ECS Data Operations System (EDOS) Architecture, Specifications and Statement of Work development support for EDOS procurement by NASA GSFC (1992 – 1994)
- **CSC** – Ground Data System for the NASA's International Solar Terrestrial Physics (ISTP) Program for Geotail, Wind and Polar spacecrafts (1988 – 1992). Presented at SRR, PDR & CDR & TIMs.
- **OAo Corporation** – Navy's Naval Oceanographic Data Distribution Enhancement System (NODDES) for the acquisition and distribution of GOES, GMS and MetSat data (1985 – 1988). SRR, PDR & CDR
- **OAo Corporation** – NOAA's GOES Ground System Upgrade Study (1983-1984). Presented at TIMs
- **General Electric** – Satellite Ground and Data Processing Systems for the NASA's Landsat 4/5 Satellites for MSS & TM Data Processing (1979 – 1982). Presented at SRR and SDR and TRR.
- **General Electric** – Technical Support - NOAA GOES Central Data Distribution Facility (1975 – 1979)

Company Information – 8(a) / SDB

ICS, Inc. is a very small SBA certified 8(a) Small Disadvantaged Business (SDB) with a strong qualified business interest in providing systems engineering and technical support services to NOAA, NASA and the USGS in the development and operations of RL&D like satellite ground data systems.

ICS, Inc., an 8(a) SDB, has over seven years of experience in providing systems engineering, system design and development, system integration and test, pre-/post-launch end-to-end systems operational checkout, system transition planning, system operations and system maintenance support services for two well known remote sensing satellite ground system missions at NASA Goddard Space Flight Center (GSFC): the Landsat Data Continuity Mission (LDCM) and the EOSDIS Terra/Aqua MODIS Data Processing System (MODAPS).

Company Name: International Computer Systems, Inc. (ICS, Inc.)
Website: <http://www.ics-systems.us>

Contact: Tan Aslam
E-mail: tanaslam@ics-systems.us
Phone / Fax: (301) 614-3989
Address: 9111 Edmonston Road, Suite 403
Greenbelt, MD 20770

Business Type: 8(a)/SDB Certified: SBA File Number – 109968
SBA 8(a) / SDB Certified on: September 24, 2003

Registrations:

Tax ID No. (TIN): 52-1662364 CCR and Pronet Registered: Yes
DUNS No: 835279498 OCRA and VET-100 Registered: Yes
Cage No. 3B4S1

Business Size & Organization

Business Size: **SMALL** for **NAICS – 541710** and **Emerging Business for 541330**
Company Size: 2 Employees
Annual Revenue: \$ 39,367 (Past 3-Year Average - Years –2004/2005/2006)
Current Line of Equity: ~\$200,000 PNC, M&T & Personal Accounts

Please note that all of the ICS, Inc.’s experience is based on supporting the development and operations of satellite ground systems for NOAA and NASA. ICS, Inc. is not a commercial type IT company one might just assume from its business name – International Computer Systems.

Please contact the undersigned for any additional information in this regard. Thanks.

Sincerely;

Tan Aslam

President
ICS, Inc.

1. Capabilities Overview – ICS, Inc.

- Systems Engineering and Technical Management
- System Architecture, Configuration and RMA Analysis
 - Real-time, Distributed, Client/Server & High-Performance
 - System Sizing, Modeling, Prototyping, Data Workload and Traffic Analysis
- Hardware and Software Subsystem Design
- System Integration and Test & IV&V
- System Operations and Maintenance
- System Administration and Network Management
- Project, Change, Quality and Risk Management
- Life-Cycle Cost Analysis based on RMA and System Complexities
- Project Management with Earned Value Measurements (EVM)
- Development and Support of Remote Sensing Satellite Ground & Data Systems:
 - SMS/GOES 1-4, Landsat 4/5/7, ISTP, EOS Terra & Aqua MODIS, & LDCM
 - Raw Data Acquisition, Level 0 Processing and Long-term Archive
 - Telemetry and Image/Science Data Processing (Level 1 & 2)
 - Science Data Distribution and Archival
 - Image/Sensor Data Pre-/Post-Launch Checkout and Quality Assurance
 - Science Data Production Planning and Operations Management
- ICS, Inc. provided operational and engineering support to NOAA/NWS like programs at NASA:
 - Landsat Data Continuity Mission (LDCM) Formulation Phase Engineering Support – Developed Ground System Operations Concept for the LDCM Data Buy
 - Earth Observing System (EOS) Terra/Aqua – Supported development, I&T, engineering support and operations of the MODIS Data Processing System (MEBS/MODAPS)
 - NASA Code 920 (Laboratory of Terrestrial Physics) – System Administration and Help Desk Support for NASA Scientist and Users, SGIs and Linux PCs support for MODAPS.
- Mr. Aslam, while at CSC and Hughes/Raytheon managed a number of “Performance Based Tasks”:
 - Established of technical performance metrics in advance of the start of the tasks
 - The use of an Earned Value Management (EVM) Scheme for earning performance credits on a monthly basis
 - Earning of pre-determined task performance credits at the start of tasks, during the performance of tasks and at the end of tasks, milestones and deliverables
 - Assessment of Cost and Schedule variances on a monthly basis and their causes
 - Review of task performance risks and their mitigation plan
- Mr. Aslam, while at GE, CSC or Hughes/Raytheon managed:
 - A staff of 12 Support Engineers and Technicians while at the NOAA GOES CDDF
 - A staff of 6 – 30 Systems and Test Engineers on ISTP, LPS, and EOSDIS Release B Tasks

2. Past Experience and References – ICS, Inc.

<i>Contract Information</i>	<i>Technical Description</i>	<i>Customer Contact Info. (Address & Phone No.)</i>
<p>2nd. Tier Subcontract No: IRS-PRIME-SC-04-129 Modification: 02 October 25, 2004 – September 30, 2006 plus 1 more option year</p> <p>Contract Type & Value: ID/IQ, T&M \$1 (min) - \$1.5M (max)</p> <p>1st. Tier Subcontract No: S800654 Subcontractor: Northrop Grumman Information Technology</p>	<p><u>T#7. IRS-PRIME IT Staffing Support</u></p> <p>ICS, Inc. provides Staffing Support Services / Professional Services to Northrop Grumman IT (NGIT) for supporting its IRS-PRIME subcontract with Computer Science Corporation (CSC).</p> <p>ICS, Inc. uses negotiated labor rates for providing potential candidates that match the technical and labor category requirements as specified in each individual task order issued by the IRS-RIME Contractor (CSC).</p> <p>Technical and experience qualifications for all labor categories have already been pre-determined in the NGIT subcontract with ICS, Inc.</p>	<p>Customer Name: Ms. Tisca Dorsey Senior Subcontract Administrator Northrop Grumman IT, Inc. (NGIT) 1800 Alexander Bell Dr., Suite 300 Reston, VA 20191 (703) 453-1231 Tisca.Dorsey@ngc.com</p> <p>Agency/COTR: Ms. Sandra J. Wood Senior Recruiter – IRS PRIME 1800 Alexander Bell Dr., Suite 300 Reston, VA 20191 (301) 306-1407 Sandra.wood@ngc.com</p>
<p>Subcontract No: 2207-03-011 Task MFR17/Mod1 January 2003 – Dec. 2004</p> <p>Contract Type & Value: Cost Plus Fixed Fee: \$206,230</p> <p>Prime Contractor: Science Systems and Applications, Inc. (SSAI)</p> <p>Prime Contract No: NAS5-020421</p>	<p><u>T#6. NASA GSFC Code 920/LTPCF System Administration Support:</u></p> <p>ICS, Inc. provided system administration support to NASA GSFC Code 920 (now Code 614) in maintaining its Team Leader Computer Facility (TLCF) and the Laboratory of Terrestrial Physics Computing Facility (LTPCF), both consisting of over 100 Windows/Linux PCs, Macs, UNIX Workstations, SGI computers and Commercial-off-the-shelf (COTS) hardware and software items.</p> <p>The ICS System Administrative also provided administrative and logistics support for keeping track of equipment inventories, billing users on service charges, and manning a help desk for over 100 users.</p>	<p>Customer Name: Dr. Michael Darzi <i>Technical Manager – Science Systems Applications, Inc. (SSAI)</i> 10210 Greenbelt Road, Suite 600 Lanham, MD 20706 (301) 867-2000</p> <p>Agency/COTR: Dr. Edward Masuoka <i>Branch Head</i> NASA GSFC Code 922 (Code 614) Greenbelt, MD 20771 (301) 614-5515</p>
<p>Subcontract No: S2080, Task 580 /Mod1/Mod2 August 2002 – June 2004</p> <p>Contract Type & Value: Cost Plus Fixed Fee: \$246,709</p> <p>Prime Contract No: NAS5-01090</p> <p>Prime Contractor:</p>	<p><u>T#5. Science Data Systems and Operations Analysis for LDCM:</u></p> <p>ICS, Inc. provided total end-to-end system engineering and analysis support to the NASA GSFC ATR on the LDCM Project. ICS, Inc. completed the following assigned tasks:</p> <ul style="list-style-type: none"> - Supported the development of the L1Gt data specification for delivery by the successful Landsat Data Continuity Mission (LDCM) contractor. - Supported technical reviews of system specifications for the LDCM procurement SOW. - Analyzed end-to-end operations and data flows of 	<p>Customer Name: Mr. Clarence M. Page III Contract Administrator (301) 902-4285 Swales & Associates, Inc. 5050 Powder Mill Road Beltsville, MD 20705 (301) 595-5500</p> <p>Agency/COTR: Dr. Mathew R. Schwaller LDCM Data Systems and Operations Manager NASA GSFC Code 427</p>

Contract Information	Technical Description	Customer Contact Info. (Address & Phone No.)
Swales & Associates, Inc.	<p>the NASA and DOI/EDC LDCM ground segments and negotiated data interfaces between the two facilities. Documented end-to-end operations concept and data flow and processing scenarios for the NASA GSFC and DOI/EDC facilities.</p> <p>- Drafted system management, development and transition plan for the NASA GSFC LDCM Independent Data Characterization and Validation (ground) system.</p> <p>- Conducting a survey and analysis of remote sensing satellites and instruments to support the NASA GSFC Science team in identifying candidate sources for Landsat like data for the LDCM.</p>	Greenbelt, MD 20771 (301) 614-5382
<p>Subcontract No. 4400059521 July 2002 – Sep. 2002</p> <p>Contract Type & Value: Time & Material Labor Hours: \$13,000</p> <p>Prime Contractor: Science Applications International Corporation (SAIC)</p>	<p><u>T#4. EOSDIS Maintenance and Development (EMD) Proposal Support:</u></p> <p>ICS, Inc. provided systems engineering and consultation support to the SAIC proposal team on the EOSDIS Maintenance and Development (EMD) procurement.</p> <p>ICS, Inc. analyzed ECS Science Data Processing System (SDPS) configurations at the Data Active Archive Centers for developing system upgrade and deployment plans for increasing system capacities to support Aqua MODIS data processing at 4 times the real rate. ICS, Inc. submitted draft sections on the ECS SDPS system upgrade approach and system engineering processes to SAIC for the EMD Technical Proposal.</p>	<p>Customer Name: Mr. David P Kirby Group Procurement Director Science Applications International Corporation (SAIC) 2109 Air Park Road SE Albuquerque, NM 87106 (505) 842-7896</p> <p>Agency/COTR: Mr. Michael Mazzella Division Manger Science Applications International Corporation (SAIC) 4400 Powder Mill Road Suite 400 Beltsville, MD 20705 (301) 903-6038</p>
<p>Subcontract Numbers: 99-MEDS-009 & 01-MEDS-120 May 1999- Dec. 2002</p> <p>Contract Type & Value: Initially - Time & Material Later -IDIQ Task Order: \$916,920</p> <p>Prime Contract No. NAS-99124 Prime Contractor: QSS Group, Inc.</p>	<p><u>T#3. MODAPS System Engineering and Operations Support:</u></p> <p>ICS Developed operations plans and procedures for engineering and operational checkout the MODIS Data Processing System (MODAPS) during the EOS Terra spacecraft pre-launch and post-launch phases. ICS, Inc. also developed MODAPS system and data interface Operations Agreements (OAs with the ECS DAACs at NASA GSFC, DOI EROS Data Center (EDC) and the NASA NSIDC. ICS, Inc. facilitated daily operational Interface Coordination between MODAPS and the ECS DAACs (GSFC, EDC, and NSIDC) to maintain the flow of almost 1TB of distribution data per day.</p> <p>ICS, Inc. successfully coordinated the development</p>	<p>Agency/COTR: Dr. Edward Masuoka <i>Branch Head</i> NASA GSFC Code 922 (Code 614) Greenbelt, MD 20771 (301) 614-5515</p> <p>Agency/COTR: Dr. Solomon Broder <i>Operations Manager</i> NASA GSFC Code 922 (Code 614) Greenbelt, MD 20771 (301) 614-5161</p>

Contract Information	Technical Description	Customer Contact Info. (Address & Phone No.)
	<p>of the Terra MODIS data reprocessing plans with the ECS DAACs at NASA GSFC, DOI/EDC and NSIDC.</p> <p><u>Code 920/LTPCF System Administration Support:</u></p> <p>ICS, Inc. supported maintenance of the MODAPS consisting of a multiple of SGI 2000/3000 parallel processing computers, a cluster of client PCs and networked large data archive storage and database systems. ICS, Inc. also provided routine and emergency system administration services for over 100 PCs, Macs, UNIX workstations and COTS at the Code 920 TLCF and LTPCF.</p>	<p>Customer Name: Mr. Bill Kelly Group Manager - MEDS QSS Group, Inc. 7404 Executive Place Suite 400 Seabrook, MD 20706(301) 867-0003</p> <p>Ms. Alysia Anderson Subcontract Administrator – MEDS QSS Group, Inc. 4500 Forbes Blvd., Suite 200 Lanham, MD 20706 (301) 867-0040</p>
<p>Consulting Agreement No: SGT005.0807 August 1997 – May 1999</p> <p>Contract Type & Value: Fixed Price Labor Hour: \$153,921</p> <p>1st. Tier Subcontractor: SGT, Inc. / Task No. 308</p> <p>Prime Contract No: Jackson & Tull Seabrook, MD 20706</p>	<p><u>T#2. MODIS Emergency Backup System (MEBS) Development and Test Engineering Support:</u></p> <p>ICS, Inc. provided system engineering and integration support on the development of the MODIS Emergency Backup System (MEBS). ICS, Inc. developed defined the SIPS interface between the MEBS/MODAPS and the ECS DAACs at NASA GSFC, DOI/EDC, and NSIDC.</p> <p>ICS, Inc. also developed MEBS ICDs with external system for ancillary data ingest and test plans, test scenarios and procedures for the integration and test of the MEBS before delivery to NASA.</p> <p>ICS, Inc. coordinated and conducted the MOSS (Mission Operations Support Systems) end-to-end tests with the ECS DAACs at NASA GSFC, DOI/EDC, and NSIDC.</p>	<p>Agency/COTR: Dr. Edward Masuoka Branch Head NASA GSFC Code 922 (Code 614) Greenbelt, MD 20771 (301) 614-5515</p> <p>Customer Name: Matthew J. Yetman Director Finance & Administration SGT, Inc. 7701 Greenbelt Road Suite 400 Greenbelt, MD 20770 (301) 614-8600</p>
<p>Subcontract No. 97-0350 Aug. 1997 – Feb. 1998</p> <p>Contract Type & Value: Fixed Price Labor Hour: \$91,820</p> <p>Prime Contract No. NAS-32595 QSS Group, Inc.</p>	<p><u>T#1. NPOESS Transition Study Support:</u></p> <p>ICS reviewed NPOESS space and ground system designs to identify and develop life-cycle-costs for NPOESS procurement planning. ICS, Inc. delivered draft templates for collecting and calculating the life-cycle costs for the POES to NPOESS transition.</p>	<p>Customer Name: Mr. Christopher Austell Project Manger QSS Group, Inc. 4500 Forbes Blvd., Suite 200 Lanham, MD 20706 (301) 429-0305</p> <p>Agency/COTR: Ms. Karen Halterman NPOESS Manager NASAGSFC Code 480 Greenbelt, MD 20771 (301) 286-8633</p>