

Naval Surface Warfare Center, Crane Division

# National Unmanned Systems Experimentation Environment (NUSE2)

*Statement of Work*

*12 October 2004*



*Prepared by Naval Surface Warfare  
Center, Crane Division, Code 60*



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## 1.0 Scope

This Statement of Work (SOW) covers non-personal scientific, engineering, and technical subject matter expertise support for the Electronic Development Department, NSWC Crane Code 60. This SOW addresses efforts performed in support of the Department of Defense Joint Robotics Program (DoD JRP) sponsored National Unmanned Systems Experimentation Environment (NUSE2) efforts.

## 2.0 Applicable documents

### 2.1 Government Documents

None.

### 2.2 Non-Government Documents

None.

## 3.0 Task Requirements

The contractor shall provide all labor, material, and administrative/indirect costs to support and perform the following tasks. The contractor shall provide monthly progress and status reports and monthly financial reports (CDRL A001, B001). In addition, the contractor will meet with the Government and pertinent stakeholders periodically for status/coordination reviews, technical interchanges, and milestone reviews.

### 3.1 NUSE2 Site Analysis.

The contractor shall perform site analysis in preparation for conducting NUSE2 experimentation. The contractor shall collect, catalog, and analyze the environmental parameters and experiment-related expertise at the sites as they relate to different aspects of NUSE2 requirements: mobility dynamics and locomotion, system controls, human system interfaces, communications and harsh environments. The contractor shall provide a Site Analysis report (CDRL A002). The facilities may include:

Twenty-nine Palms, CA

Cold Regions Test Center, AK

Southwest Research Institute, TX

Marine Experimentation Center, HI  
 Camp Guernsey, WY  
 Coastal Systems Station, Gulf Range, FL  
 Danville/VIR/JOUSTR, VA

### 3.2 Integrated Product Team (IPT) participation

The contractor shall provide technical and administrative support to the Modeling and Simulation IPT, the Test IPT, and the Data Collection and Archiving IPT. The goals of the IPTs are to ensure that the relevant team members fulfill their commitments and perform their tasks in a coordinated and timely manner; address requirements, plans, objectives, issues and risks; and identify, track, and resolve issues.

This shall include, but not be limited to: IPT definition, planning, budgeting, coordination, and monitoring; development of IPT related documentation, including the IPT Charter; participation at reviews, meetings, and similar sessions; technical review of proposals, reports, and other deliverables submitted to the IPT. A meeting report shall be filed at the end of each IPT Meeting or Review attended (CDRL A003).

## 4.0 Facilities Requirements

The contractor shall provide facilities for meetings and integrated product team (IPT) meetings (e.g., ~10 personnel), as well as a suitable infrastructure to manage program requirements throughout the course of performance to support the scope of activities.

## 5.0 DATA DELIVERABLES

SOW Para	Seq No	Data Description	DID No
3.0	A001	Monthly Status Report	DI-MGMT-80227
3.1	A002	Site Analysis	DI-MGMT-80508
3.2	A003	Report, Record of Meeting/Minutes	DI-ADMN-81505
3.3	A004	Experiment Plan	DI-MISC-80508
3.3	A005	Test Reports	DI-MISC-80508

**5.1 Deliverables**

The contractor shall provide deliverables to the NSWC Crane Team Lead, Mr. Gary Bullock, ([gary.bullock@navy.mil](mailto:gary.bullock@navy.mil)), and to the Terchnical Point of Contact, Mr. Mohammad Beitvashahi ([mohammad.beitvashahi@navy.mil](mailto:mohammad.beitvashahi@navy.mil)), Code 6067, NSWC Crane, Crane, IN 47522.

**6.0 Special Considerations.**

The following special considerations shall apply to the contractor in the performance of this contract.

**6.1 Security Classification.**

The security classification of work performed on this SOW will be UNCLASSIFIED.

**6.2 Travel**

The contractor is authorized to use contract funds for travel to complete deliverables assigned under this SOW. The contractor shall be advised of travel dates and destination via Technical Direction Letters (TDL) signed by the Contracting Officer. A trip report shall be filed at the end of each trip (CDRL A003). Unless otherwise defined, one person will accomplish each trip. The following travel schedule is anticipated, but changes for alternate locations may be made:

<u>LOCATION</u>	<u>NO. DAYS</u>	<u>NO. TRIPS</u>
Trips from Homer, AK to:		
Waterways Experimentation Station, MS	4	1
Cold Regions Test Center, AK	2	2
Fairbanks, AK	2	2
Coastal Systems Station, Gulf Range, FL	4	1
Washington, DC	4	1
NSWC Crane	4	1

**6.3 Technical POC.**

The Technical POC for both substantive and non-substantive communications of a technical nature shall be directed to the Crane Team Lead, Mr. Gary Bullock, ([gary.bullock@crane.navy.mil](mailto:gary.bullock@crane.navy.mil)), and to Mr. Mohammad Beitvashahi ([mohammad.beitvashahi@navy.mil](mailto:mohammad.beitvashahi@navy.mil)), Code 6067, NSWC Crane, Crane, IN 47522.

## **7.0 Period of Performance.**

The period of performance for this task order shall be two months after date of award.

## **8.0 Place of Performance.**

It is anticipated that the majority of assigned tasking will be accomplished at the Contractor's facilities in Homer, AK.

# CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved  
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. Listed in Block E.

<b>A. CONTRACT LINE ITEM NO.</b> 0002		<b>B. EXHIBIT</b> A		<b>C. CATEGORY</b> TDP _____ TM _____ OTHER _____ MGMT _____											
<b>D. SYSTEM/ITEM</b> NUSE2			<b>E. CONTRACT/PR NO.</b>		<b>F. CONTRACTOR</b> Kachemak Research Development, Inc.										
<b>1. DATA ITEM NO.</b> A001	<b>2. TITLE OF DATA ITEM</b> Status Report			<b>3. SUBTITLE</b> Monthly											
<b>4. AUTHORITY (Data Acquisition Document No.)</b> DI-MGMT-80227			<b>5. CONTRACT REFERENCE</b> TO SOW Para 3.0		<b>6. REQUIRING OFFICE</b> NSWC CRANE, CODE 60										
<b>7. DD 250 REQ</b> LT	<b>9. DIST STATEMENT REQUIRED</b> B	<b>10. FREQUENCY</b> Monthly		<b>12. DATE OF FIRST SUBMISSION</b> See Block 16		<b>14. DISTRIBUTION</b>									
<b>8. APP CODE</b> A		<b>11. AS OF DATE</b> 0	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> See Block 16												
<b>16. REMARKS</b> Blocks 2 and 3: Status for this task order.  Block 4: Replace Para. 10.2 of DID with "Contractor Format Acceptable".  Block 12: First report due NLT 15 <sup>th</sup> DOM following first full month after task order awarded.  Block 13: Subsequent reports due NLT 15 <sup>th</sup> DOM following end of each month.  Block 14: Document shall be in electronic form (either MS Word or Adobe PDF file format). Document shall be transmitted via e-mail.						<b>a. ADDRESSEE</b>	<b>b. COPIES</b>								
							Draft	Reg	Repro						
												COR	0	1	0
												Project Mgr	0	1	0
												TPOC	0	1	0
												ACO (Cover Only)	0	1	0
												<b>15. TOTAL -&gt;</b>	0	4	0

  

<b>1. DATA ITEM NO.</b> A002		<b>2. TITLE OF DATA ITEM</b> Technical Report-Study/Services		<b>3. SUBTITLE</b> Site Analysis											
<b>4. AUTHORITY (Data Acquisition Document No.)</b> DI-MISC-80508A			<b>5. CONTRACT REFERENCE</b> TO SOW Para 3.1		<b>6. REQUIRING OFFICE</b> NSWC CRANE, CODE 60										
<b>7. DD 250 REQ</b> LT	<b>9. DIST STATEMENT REQUIRED</b> B	<b>10. FREQUENCY</b> ONCE/R		<b>12. DATE OF FIRST SUBMISSION</b> As Req		<b>14. DISTRIBUTION</b>									
<b>8. APP CODE</b> A		<b>11. AS OF DATE</b> See Blk 16	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> See Blk 16												
<b>16. REMARKS</b> Block 12: 20 days for Government review and approval. Government approval if comments not returned within 20 days.  Block 11 & 13: Final due 15 days month after government comments received.  Block 14: Document shall be in electronic form (either MS Word or Adobe PDF file format). Document shall be transmitted via e-mail.						<b>a. ADDRESSEE</b>	<b>b. COPIES</b>								
							Draft	Reg	Repro						
												COR	1	1	0
												Project Mgr	1	1	0
												TPOC	0	1	0
												ACO (Cover Only)	0	1	0
												<b>15. TOTAL -&gt;</b>	2	3	0

  

<b>G. PREPARED BY</b> Clay Armstrong		<b>H. DATE</b> 8 Oct 04	<b>I. APPROVED BY</b> Clay Armstrong, NSWC Crane PjM		<b>J. DATE</b> 08 Oct 04	
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE





