

**CONTRACT REQUEST FORM (CRF)**A) New Agreement 500-14-004 (To be completed by CGL Office)

B) Division	Agreement Manager:	MS-	Phone
ERDD	Paul Robinson	51	916-327-3310

C) Contractor's Legal Name	Federal ID Number
CO2Nexus Inc.	80-0628205

D) Title of Project
CO2 Cleaning Project

E) Term and Amount	Start Date	End Date	Amount
	6/30/2015	3/31/2019	\$ 900,300

F) Business Meeting Information			
<input type="checkbox"/> Operational agreement (see CAM Manual for list) to be approved by Executive Director			
<input type="checkbox"/> ARFVTP agreements under \$75K delegated to Executive Director.			
Proposed Business Meeting Date	5/13/2015	<input type="checkbox"/> Consent	<input checked="" type="checkbox"/> Discussion
Business Meeting Presenter	Paul Robinson	Time Needed:	5 minutes

Please select one list serve. Select

Agenda Item Subject and Description
CO2NEXUS, INC. Proposed resolution approving Agreement 500-14-004 with CO2Nexus, Inc. for a \$900,300 contract to demonstrate an alternative laundry system using liquid carbon dioxide. This unique system will be demonstrated at the Naval Base Ventura County at Port Hueneme and will reduce natural gas, electricity and water used for cleaning military combat garments, general purpose fabrics and textiles, fire retardant items, military protective clothing and field equipment that requires special handling. In many cases these textiles cannot currently be laundered without losing their protective capabilities. CO2Nexus will evaluate the performance, energy savings, cleaning, and operational costs. (PIER-NG Funds) Contact: Paul Robinson (Staff presentation: 5 minutes)



### G) California Environmental Quality Act (CEQA) Compliance

1. Is Agreement considered a "Project" under CEQA?  
 Yes (skip to question 2)  No (complete the following (PRC 21065 and 14 CCR 15378)):  
 Explain why Agreement is not considered a "Project":  
 Agreement will not cause direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment because

2. If Agreement is considered a "Project" under CEQA:

a) Agreement **IS** exempt. (Attach draft NOE)

Statutory Exemption. List PRC and/or CCR section number: \_\_\_\_\_

Categorical Exemption. List CCR section number: 14 CCR 15301, 15306

Common Sense Exemption. 14 CCR 15061 (b) (3)

Explain reason why Agreement is exempt under the above section:

The proposed project will involve the deployment of the Liquid Carbon Dioxide (LCO2) platform to process flame retardant, oily rags, Kevlar-ballistic vests, and other military specific garments at the Naval Base Ventura County at Port Hueneme. The project will be a minor alteration of existing warehouse facility, which includes installation of an onsite CO2 tank, rearranging of storage space and reinforcement of floor to accommodate weight of the LCO2 platform, plumbing and electrical connections. There will not be an expansion of facility beyond current uses. Cal. Code Regs., tit. 14, sect. 15301 provides that projects which consist of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, and which involve negligible or no expansion of use beyond that existing at the time of the lead agency's determination, are categorically exempt from the provisions of the California Environmental Quality Act.

The proposed project will conduct a paper study evaluating the water, energy, and other operational costs such as energy & water consumption for a representative cross section of fabric and textile items used by the military. Cal. Code Regs., tit. 14, sect. 15306 provides that projects which consist of basic data collection, research, and resource evaluation activities, which do not result in a serious or major disturbance to an environmental resource, are categorically exempt.

The project received \*preliminary\* US DOD NEPA review (April 2015). The NEPA determination is a Categorical Exclusion (CATEX). The CATEX is required and the subject project is excluded from further NEPA analysis. In accordance with 32 CFR 775.6 and OPNAVINST M-5090.1, the proposed action would be within the scope of CATEX (32) Renewals and/or initial real estate in grants and out grants involving existing facilities and land wherein use does not change significantly (e.g., leasing of federally-owned or privately-owned housing or office space, and agricultural out leases); and (35) Demolition, disposal, or improvements involving buildings or structures when done in accordance with applicable regulations including those regulations applying to removal of asbestos, PCBs, and other hazardous materials.

\*\*The proposed project is still under review by the Navy/NBVC Project Review Board to determine if there are any significant impacts, regulatory agency consultations, permits required, and any protection measures needed to ensure protection of human health and the environment. Also, the results will be used to validate that a CATEX is appropriate and that an Environmental Assessment (EA) or Environmental Impact Statement (EIS) is not required.

Should there be any change to the CATEX, this NOE will be modified accordingly. If the NAVY decides that additional environmental assessments are necessary the CEC will coordinate an appropriate response with its environmental documentation.

b) Agreement **IS NOT** exempt. (Consult with the legal office to determine next steps.)

Check all that apply

Initial Study

Environmental Impact Report

Negative Declaration

Statement of Overriding Considerations

Mitigated Negative Declaration

**H) List all subcontractors (major and minor) and equipment vendors:** (attach additional sheets as necessary)



**CONTRACT REQUEST FORM (CRF)**

CEC-94 (Revised 01/13)

CALIFORNIA ENERGY COMMISSION



<b>I) List all key partners:</b> (attach additional sheets as necessary)
Legal Company Name:
Naval Facilities Engineering Command, Engineering and Expeditionary Warfare Center

<b>J) Budget Information</b>			
Funding Source	Funding Year of Appropriation	Budget List No.	Amount
NG Subaccount, PIERDD	13-14	501.001H	\$900,300
			\$
			\$
			\$
			\$
			\$
R&D Program Area:	EERO: IAW	TOTAL:	\$
Explanation for "Other" selection			
Reimbursement Contract #:		Federal Agreement #:	

<b>K) Contractor's Administrator/ Officer</b>				<b>Contractor's Project Manager</b>			
Name:	Richard Kinsman			Name:	Richard Kinsman		
Address:	8159 W BRANDON DR			Address:	8159 W BRANDON DR		
City, State, Zip:	LITTLETON, CO 80125-9765			City, State, Zip:	LITTLETON, CO 80125-9765		
Phone:	310-906-6201 /	Fax:	- -	Phone:	310-906-6201 /	Fax:	- -
E-Mail:	rkinsman@co2nexus.com			E-Mail:	rkinsman@co2nexus.com		

<b>L) Selection Process Used</b> (For amendments, address amendment exemption or NCB, do not identify solicitation type of original agreement. )			
<input type="checkbox"/>	Solicitation	Select Type	Solicitation #: _____ # of Bids: _____ Low Bid? <input type="checkbox"/> No <input type="checkbox"/> Yes
<input checked="" type="checkbox"/>	Non Competitive Bid (Attach CEC 96)		
<input type="checkbox"/>	Exempt	Select Exemption (see instructions)	

<b>M) Contractor Entity Type</b>			
<input checked="" type="checkbox"/>	Private Company (including non-profits)		
<input type="checkbox"/>	CA State Agency (including UC and CSU)		
<input type="checkbox"/>	Government Entity (i.e. city, county, federal government, air/water/school district, joint power authorities, university from another state)		

<b>N) Is Contractor a certified Small Business (SB), Micro Business (MB) or DVBE?</b>	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
If yes, check appropriate box:	<input type="checkbox"/> SB	<input type="checkbox"/> MB <input type="checkbox"/> DVBE

<b>O) Civil Service Considerations</b>	
<input type="checkbox"/>	Not Applicable (Agreement is with a CA State Entity or a membership/co-sponsorship)
<input type="checkbox"/>	Public Resources Code 25620, et seq., authorizes the Commission to contract for the subject work. (PIER)
<input checked="" type="checkbox"/>	The Services Contracted:
<input checked="" type="checkbox"/>	are not available within civil service
<input checked="" type="checkbox"/>	cannot be performed satisfactorily by civil service employees
<input checked="" type="checkbox"/>	are of such a highly specialized or technical nature that the expert knowledge, expertise, and ability are not available through the civil service system.
<input type="checkbox"/>	The Services are of such an:
<input type="checkbox"/>	urgent
<input type="checkbox"/>	temporary, or
<input type="checkbox"/>	occasional nature
	that the delay to implement under civil service would frustrate their very purpose.
<b>Justification:</b>	
The expertise, services, and product are unique and not available within the civil service.	



**P) Payment Method**

A. Reimbursement in arrears based on:  
 Itemized Monthly       Itemized Quarterly       Flat Rate       One-time  
 B. Advanced Payment  
 C. Other, explain:

**Q) Retention**

1. Is Agreement subject to retention?       No       Yes  
 If Yes, Will retention be released prior to Agreement termination?       No       Yes

**R) Justification of Rates**

The expertise, services, and product are unique and not available within the civil service. The rates are approximately the actual compensation/salary rates of the personnel involved, which includes GSA rates for DVBE contractor. This is meant to be conservative and alleviate any concern about profit. Additionally, CO2Nexus can provide support documentation for each involved person's rate.

**S) Disabled Veteran Business Enterprise Program (DVBE)**

1.  Exempt (Interagency/Other Government Entity)  
 2.  Meets DVBE Requirements      DVBE Amount:\$ 30,000.00      DVBE %: 3  
 Contractor is Certified DVBE  
 Contractor is Subcontracting with a DVBE: KOCHUR TRUMMER CORPORATION  
 3.  Contractor selected through CMAS or MSA with no DVBE participation.  
 4.  Requesting DVBE Exemption (attach CEC 95)

**T) Miscellaneous Contract Information**

1. Will there be Work Authorizations?       No       Yes  
 2. Is the Contractor providing confidential information?       No       Yes  
 3. Is the Contractor going to purchase equipment?       No       Yes  
 4. Check frequency of progress reports  
 Monthly       Quarterly       \_\_\_\_\_  
 5. Will a final report be required?       No       Yes  
 6. Is the agreement, with amendments, longer than a year? If yes, why?       No       Yes  
 The Department of General Services has agreed to give the Commission blanket authority to execute multi-year contracts to support the Commission's RD&D Programs.

**U) The following items should be attached to this CRF (as applicable)**

1. Exhibit A, Scope of Work	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached
2. Exhibit B, Budget Detail	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached
3. CEC 96, NCB Request	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached
4. CEC 30, Survey of Prior Work	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Attached
5. CEC 95, DVBE Exemption Request	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Attached
6. CEQA Documentation	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached
7. Resumes	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached
8. CEC 105, Questionnaire for Identifying Conflicts		<input checked="" type="checkbox"/> Attached

\_\_\_\_\_  
 Agreement Manager      Date      Office Manager      Date      Deputy Director      Date

## Exhibit A Scope of Work

### A. Task List

Task #	CPR <sup>1</sup>	Task Name
1		General Project Tasks
2	X	Finalize Industrial Machine Design for USN/NCG1
3		Upgrade Facility Infrastructure
4	X	Complete Machine Fabrication
5		Test Plan Preparation
6		Installation & Commissioning of Machine at Demonstration Site
7	X	Operation and Maintenance of LCO <sub>2</sub> Textile Cleaning Machine
8		Measurement and Verification
9		Evaluation of Project Benefits
10		Technology/Knowledge Transfer Activities
11		Production Readiness Plan

### B. Acronym/Term List

Acronym/Term	Meaning
CAM	Commission Agreement Manager
CAO	Commission Agreement Officer
CHP	California Highway Patrol
CPR	Critical Project Review
GHG	Greenhouse gas
TAC	Technical Advisory Committee
LCO <sub>2</sub>	Liquid Carbon Dioxide
M&V	Measure and Verification
NAVFAC EXWC	Naval Facilities Engineering & Expeditionary Warfare Center
NCG1	Naval Construction Group ONE
NBVC	Naval Base Ventura County
USN	United States Navy

<sup>1</sup> Please see subtask 1.3 in Part III of the Scope of Work (General Project Tasks) for a description of Critical Project Review (CPR) Meetings.

## **Exhibit A Scope of Work**

### **I. PURPOSE OF AGREEMENT, PROBLEM/SOLUTION STATEMENT, AND GOALS AND OBJECTIVES**

#### **A. Purpose of Agreement**

The purpose of this Agreement is to fund the demonstration and operational testing of liquid carbon dioxide (LCO<sub>2</sub>) technology. The demonstration will measure the technical cleaning performance, energy consumption and water savings using this technology for cleaning military textiles such as Kevlar-ballistic vests, uniforms, flame resistant garments, sleeping bags and other miscellaneous textile or fabric items across the facilities.

#### **B. Problem/ Solution Statement**

##### **Problem**

Current cleaning processes require extensive use of energy, chemicals, and water. Some technical garments, such as ballistic vests, are not effectively cleaned in water without potential damage to the life of the vest. Consequently, the cleaning process for textiles and garments, from military uniforms to technical garments such as ballistic vests to oily rags, is difficult, costly and energy (natural gas/electrical) and water intensive. A joint Department of Defense and Department of Energy study estimated that the Navy's procurement, processing, and disposal costs of oily rags alone is in excess of \$360 million over 10 years. Additionally, the Navy has emphasized the need to start cleaning these technical garments on-site, rather than contracting to outside vendors. Thus, an alternative on-site method needs to be demonstrated to determine cleaning performance and energy savings.

##### **Solution**

The Contractor will install a LCO<sub>2</sub> based textile cleaning system to demonstrate the energy savings and process performance improvements to cleaning and processing the following technical garments and textiles:

- Kevlar-ballistic vests
- Uniforms, military protective clothing and other laundry
- Flame resistant garments
- Field equipment, such as sleeping bags
- Other miscellaneous textile or fabric items across the facilities (e.g. sleeping bags, tents, field gear, cleaning rags)

The natural gas and electrical energy reduction, water savings, environmental benefits, process performance, and economics of the Tersus™ LCO<sub>2</sub> platform will be demonstrated for the above items.

#### **C. Goals and Objectives of the Agreement**

##### **Agreement Goals**

This Agreement will demonstrate and test the LCO<sub>2</sub> textile cleaning system to determine whether it will meet the following goals:

- Reduce the amount of electricity and natural gas use and compare it to conventional cleaning
- Reduce water consumption and compare it to conventional cleaning

## **Exhibit A Scope of Work**

- Reduce process chemical use and compare it to conventional methods
- Reduce the environmental impact (greenhouse gas emissions) caused by textile cleaning and processing
- Reduce the overall garment life-cycle costs-thus reducing disposal costs and saving taxpayer dollars
- Achieve a simple payback of 4 years or less (or some other economic metric) based on energy savings
- Determine whether there are potential applications with the California Department of Forestry and Fire Protection (Cal Fire), California Highway Patrol (CHP) and local law enforcement and fire departments

### **Agreement Objectives**

The objectives of this Agreement are to:

- Design and demonstrate a commercial-scale LCO<sub>2</sub> textile cleaning system.
- Implement and optimize this system for cleaning in a military laundry facility.
- Measure and validate energy and water consumption, including cleaning performance, cycle time, workflow efficiency, and overall machine operation and reliability.
- Determine the real world operation and cost comparisons between water-based and LCO<sub>2</sub>-based textile cleaning in the military setting.
- Determine the overall life-cycle costs savings for the military garments and textiles relative to either commercial or current cleaning methods.
- Determine the amount of reductions in greenhouse gas (GHG) emissions, effluent water savings from laundry, and operating costs.
- Work with Navy field personnel, firefighting personnel and law enforcement individuals to develop cleaning standards that are acceptable to the industry and that the LCO<sub>2</sub> laundry system can deliver. Increase government awareness of LCO<sub>2</sub> textile cleaning as an environmentally-preferable technology that can effectively clean garments. Determine feasibility of the LCO<sub>2</sub> laundry system for cleaning other government textiles, such as police, fire and the California Highway Patrol and California Department of Forestry and Fire Protection.

# Exhibit A

## Scope of Work

### II. TASK 1 GENERAL PROJECT TASKS

#### DELIVERABLES

##### Subtask 1.1 Deliverables

The goal of this subtask is to establish the requirements for submitting project deliverables (e.g., reports, summaries, plans, and presentation materials). Unless otherwise specified by the Commission Agreement Manager (CAM), the Contractor must deliver deliverables as required below by the dates listed in the **Project Schedule (Part V)**. Deliverables that require a draft version are indicated by marking “**(draft and final)**” after the product name in the “Deliverables” section of the task/subtask. If “(draft and final)” does not appear after the product name, only a final version of the deliverable is required. With respect to due dates within this Scope of Work, “**days**” means working days.

##### The Contractor shall:

###### For deliverables that require a draft version

- Submit all draft deliverables to the CAM for review and comment in accordance with the Project Schedule (Part V). The CAM will provide written comments to the Contractor on the draft deliverable within 15 days of receipt, unless otherwise specified in the task/subtask for which the product is required.
  - Submit the final deliverable to the CAM once agreement has been reached on the draft. The CAM will provide written approval of the final product within 15 days of receipt, unless otherwise specified in the task/subtask for which the deliverable is required.
  - If the CAM determines that the final deliverable does not sufficiently incorporate his/her comments, submit the revised product to the CAM within 10 days of notice by the CAM, unless the CAM specifies a longer time period.

###### For deliverables that require a final version only

- Submit the deliverable to the CAM for approval.
- If the CAM determines that the deliverable requires revision, submit the revised deliverable to the CAM within 10 days of notice by the CAM, unless the CAM specifies a longer time period.

###### For all deliverables

- Submit all data and documents required as deliverables in accordance with the following Instructions for Submitting Electronic Files and Developing Software:
  - **Electronic File Format**  
Submit all data and documents required as deliverables under this Agreement in an electronic file format that is fully editable and compatible with the Energy Commission’s software and Microsoft (MS)-operating computing platforms, or with any other format approved by the CAM. Deliver an electronic copy of the full text of any Agreement data and documents in a format specified by the CAM, such as memory stick or CD-ROM.

The following describes the accepted formats for electronic data and documents provided to the Energy Commission as deliverables under this Agreement, and establishes the software versions that will be required to review and approve all software products:

## **Exhibit A Scope of Work**

- Data sets will be in MS Access or MS Excel file format (Version 2007 or later), or any other format approved by the CAM.
- Text documents will be in MS Word file format, version 2007 or later.
- Documents intended for public distribution will be in PDF file format. The Contractor must also provide the native Microsoft file format.
- Project management documents will be in Microsoft Project file format, version 2007 or later.
  
- **Software Application Development**  
Use the following standard Application Architecture components in compatible versions for any software application development required by this Agreement (e.g., databases, models, modeling tools), unless the CAM approves other software applications such as open source programs:
  - Microsoft ASP.NET framework (version 3.5 and up). Recommend 4.0.
  - Microsoft Internet Information Services (IIS), (version 6 and up) Recommend 7.5.
  - Visual Studio.NET (version 2008 and up). Recommend 2010.
  - C# Programming Language with Presentation (UI), Business Object and Data Layers.
  - SQL (Structured Query Language).
  - Microsoft SQL Server 2008, Stored Procedures. Recommend 2008 R2.
  - Microsoft SQL Reporting Services. Recommend 2008 R2.
  - XML (external interfaces).

Any exceptions to the Electronic File Format requirements above must be approved in writing by the CAM. The CAM will consult with the Energy Commission's Information Technology Services Branch to determine whether the exceptions are allowable.

### **MEETINGS**

#### **Subtask 1.2 Kick-off Meeting**

The goal of this subtask is to establish the lines of communication and procedures for implementing this Agreement.

#### **The Contractor shall:**

- Attend a "Kick-off" meeting with the CAM, the Commission Agreement Officer (CAO), and any other Energy Commission staff relevant to the Agreement. The Contractor will bring its Project Manager and any other individuals designated by the CAM to this meeting. The administrative and technical aspects of the Agreement will be discussed at the meeting. Prior to the meeting, the CAM will provide an agenda to all potential meeting participants. The meeting may take place in person or by electronic conferencing (e.g., WebEx), with approval of the CAM.

The administrative portion of the meeting will include discussion of the following:

- Terms and conditions of the Agreement;
- Administrative deliverables (subtask 1.1);

## **Exhibit A Scope of Work**

- CPR meetings (subtask 1.3);
- Match fund documentation (subtask 1.7);
- Permit documentation (subtask 1.8);
- Subcontracts (subtask 1.9); and
- Any other relevant topics.

The technical portion of the meeting will include discussion of the following:

- The CAM's expectations for accomplishing tasks described in the Scope of Work;
  - An updated Project Schedule;
  - Technical deliverables (subtask 1.1);
  - Progress reports and invoices (subtask 1.5);
  - Final Report (subtask 1.6);
  - Technical Advisory Committee meetings (subtasks 1.10 and 1.11); and
  - Any other relevant topics.
- 
- Provide an *Updated Project Schedule*, *List of Match Funds*, and *List of Permits*, as needed to reflect any changes in the documents.

### **The CAM shall:**

- Designate the date and location of the meeting.
  - Send the Contractor a *Kick-off Meeting Agenda*.

### **Contractor Deliverables:**

- Updated Project Schedule (*if applicable*)
- Updated List of Match Funds (*if applicable*)
- Updated List of Permits (*if applicable*)

### **CAM Product:**

- Kick-off Meeting Agenda

### **Subtask 1.3 Critical Project Review (CPR) Meetings**

The goal of this subtask is to determine if the project should continue to receive Energy Commission funding, and if so whether any modifications must be made to the tasks, deliverables, schedule, or budget. CPR meetings provide the opportunity for frank discussions between the Energy Commission and the Contractor. As determined by the CAM, discussions may include project status, challenges, successes, advisory group findings and recommendations, final report preparation, and progress on technical transfer and production readiness activities (if applicable). Participants will include the CAM and the Contractor, and may include the CAO and any other individuals selected by the CAM to provide support to the Energy Commission.

CPR meetings generally take place at key, predetermined points in the Agreement, as determined by the CAM and as shown in the Task List on page 1 of this Exhibit. However, the CAM may schedule additional CPR meetings as necessary. The budget will be reallocated to cover the additional costs borne by the Contractor, but the overall Agreement amount will not increase. CPR meetings generally take place at the Energy Commission, but they may take place at another location, or may be conducted via electronic conferencing (e.g., WebEx) as determined by the CAM.

## **Exhibit A Scope of Work**

### **The Contractor shall:**

- Prepare a *CPR Report* for each CPR meeting that: (1) discusses the progress of the Agreement toward achieving its goals and objectives; and (2) includes recommendations and conclusions regarding continued work on the project.
- Submit the CPR Report along with any other *Task Deliverables* that correspond to the technical task for which the CPR meeting is required (i.e., if a CPR meeting is required for Task 2, submit the Task 2 deliverables along with the CPR Report).
- Attend the CPR meeting.
- Present the CPR Report and any other required information at each CPR meeting.

### **The CAM shall:**

- Determine the location, date, and time of each CPR meeting with the Contractor's input.
- Send the Contractor a *CPR Agenda* and a *List of Expected CPR Participants* in advance of the CPR meeting. If applicable, the agenda will include a discussion of match funding and permits.
- Conduct and make a record of each CPR meeting. Provide the Contractor with a *Schedule for Providing a Progress Determination* on continuation of the project.
- Determine whether to continue the project, and if so whether modifications are needed to the tasks, schedule, deliverables, or budget for the remainder of the Agreement. If the CAM concludes that satisfactory progress is not being made, this conclusion will be referred to the Deputy Director of the Energy Research and Development Division.
- Provide the Contractor with a *Progress Determination* on continuation of the project, in accordance with the schedule. The Progress Determination may include a requirement that the Contractor revise one or more deliverables.

### **Contractor Deliverables:**

- CPR Report(s)
- Task Deliverables (draft and/or final as specified in the task)

### **CAM Deliverables:**

- CPR Agenda
- List of Expected CPR Participants
- Schedule for Providing a Progress Determination
- Progress Determination

### **Subtask 1.4 Final Meeting**

The goal of this subtask is to complete the closeout of this Agreement.

### **The Contractor shall:**

- Meet with Energy Commission staff to present project findings, conclusions, and recommendations. The final meeting must be completed during the closeout of this Agreement. This meeting will be attended by the Contractor and CAM, at a minimum. The meeting may occur in person or by electronic conferencing (e.g., WebEx), with approval of the CAM.

## **Exhibit A Scope of Work**

The technical and administrative aspects of Agreement closeout will be discussed at the meeting, which may be divided into two separate meetings at the CAM's discretion.

- The technical portion of the meeting will involve the presentation of findings, conclusions, and recommended next steps (if any) for the Agreement. The CAM will determine the appropriate meeting participants.
- The administrative portion of the meeting will involve a discussion with the CAM and the CAO of the following Agreement closeout items:
  - Disposition of any state-owned equipment.
  - Need to file a Uniform Commercial Code Financing Statement (Form UCC-1) regarding the Energy Commission's interest in patented technology.
  - The Energy Commission's request for specific "generated" data (not already provided in Agreement deliverable).
  - Need to document the Contractor's disclosure of "subject inventions" developed under the Agreement.
  - "Surviving" Agreement provisions such as repayment provisions and confidential products.
  - Final invoicing and release of retention.
- Prepare a *Final Meeting Agreement Summary* that documents any agreement made between the Contractor and Commission staff during the meeting.
- Prepare a *Schedule for Completing Agreement Closeout Activities*.
- Provide *All Draft and Final Written Deliverables* on a CD-ROM or USB memory stick, organized by the tasks in the Agreement.

### **Deliverables:**

- Final Meeting Agreement Summary (*if applicable*)
- Schedule for Completing Agreement Closeout Activities
- All Draft and Final Written deliverables

## **REPORTS AND INVOICES**

### **Subtask 1.5 Progress Reports and Invoices**

The goals of this subtask are to: (1) periodically verify that satisfactory and continued progress is made towards achieving the project objectives of this Agreement; and (2) ensure that invoices contain all required information and are submitted in the appropriate format.

### **The Contractor shall:**

- Submit a monthly *Progress Report* to the CAM. Each progress report must:
  - Summarize all Agreement activities conducted by the Contractor for the preceding month, including an assessment of the ability to complete the Agreement within the current budget and any anticipated cost overruns. See the Progress Report Format Attachment for the recommended specifications.
  - Provide a synopsis of the project progress, including accomplishments, problems, milestones, deliverables, schedule, fiscal status, and any evidence of progress such as photographs.
- Submit a monthly or quarterly *Invoice* that follows the instructions in the "Payment of Funds" section of the terms and conditions. In addition, each invoice must document and

## **Exhibit A Scope of Work**

verify:

- Energy Commission funds received by California-based entities;
- Energy Commission funds spent in California (*if applicable*); and
- Match fund expenditures.

### **Deliverables:**

- Progress Reports
- Invoices

### **Subtask 1.6 Final Report**

The goal of this subtask is to prepare a comprehensive Final Report that describes the original purpose, approach, results, and conclusions of the work performed under this Agreement. The CAM will review and approve the Final Report, which will be due at least **two months** before the Agreement end date. When creating the Final Report Outline and the Final Report, the Contractor must use a Style Manual provided by the CAM.

#### **Subtask 1.6.1 Final Report Outline**

##### **The Contractor shall:**

- Prepare a *Final Report Outline* in accordance with the *Style Manual* provided by the CAM.
- Submit a draft of the outline to the CAM for review and comment.
- Once agreement has been reached on the draft, submit the final outline to the CAM. The CAM will provide written approval of the final outline within 10 days of receipt.

##### **Contractor Deliverables:**

- Final Report Outline (draft and final)

##### **CAM Product:**

- Style Manual

#### **Subtask 1.6.2 Final Report**

##### **The Contractor shall:**

- Prepare a *Final Report* for this Agreement in accordance with the approved Final Report Outline and the Style Manual provided by the CAM.
- Submit a draft of the report to the CAM for review and comment. Once agreement on the draft report has been reached, the CAM will forward the electronic version for Energy Commission internal approval. Once the CAM receives approval, he/she will provide written approval to the Contractor.
- Submit one bound copy of the Final Report to the CAM.

##### **Deliverables:**

- Final Report (draft and final)

## Exhibit A Scope of Work

### MATCH FUNDS, PERMITS, AND SUBCONTRACTS

#### **Subtask 1.7 Match Funds**

The goal of this subtask is to ensure that the Contractor obtains any match funds planned for this Agreement and applies them to the Agreement during the Agreement term.

While the costs to obtain and document match funds are not reimbursable under this Agreement, the Contractor may spend match funds for this task. The Contractor may only spend match funds during the Agreement term, either concurrently or prior to the use of Energy Commission funds. Match funds must be identified in writing, and the Contractor must obtain any associated commitments before incurring any costs for which the Contractor will request reimbursement.

#### **The Contractor shall:**

- Prepare a *Match Funds Status Letter* that documents the match funds committed to this Agreement. If no match funds were part of the proposal that led to the Energy Commission awarding this Agreement and none have been identified at the time this Agreement starts, then state this in the letter.

If match funds were a part of the proposal that led to the Energy Commission awarding this Agreement, then provide in the letter:

- A list of the match funds that identifies:
  - The amount of cash match funds, their source(s) (including a contact name, address, and telephone number), and the task(s) to which the match funds will be applied.
  - The amount of each in-kind contribution, a description of the contribution type (e.g., property, services), the documented market or book value, the source (including a contact name, address, and telephone number), and the task(s) to which the match funds will be applied. If the in-kind contribution is equipment or other tangible or real property, the Contractor must identify its owner and provide a contact name, address, telephone number, and the address where the property is located.
- A copy of a letter of commitment from an authorized representative of each source of match funding that the funds or contributions have been secured.
- At the Kick-off meeting, discuss match funds and the impact on the project if they are significantly reduced or not obtained as committed. If applicable, match funds will be included as a line item in the progress reports and will be a topic at CPR meetings.
- Provide a *Supplemental Match Funds Notification Letter* to the CAM of receipt of additional match funds.
- Provide a *Match Funds Reduction Notification Letter* to the CAM if existing match funds are reduced during the course of the Agreement. Reduction of match funds may trigger a CPR meeting.

#### **Deliverables:**

- Match Funds Status Letter
- Supplemental Match Funds Notification Letter *(if applicable)*
- Match Funds Reduction Notification Letter *(if applicable)*

## **Exhibit A Scope of Work**

### **Subtask 1.8 Permits**

The goal of this subtask is to obtain all permits required for work completed under this Agreement in advance of the date they are needed to keep the Agreement schedule on track. Permit costs and the expenses associated with obtaining permits are not reimbursable under this Agreement, with the exception of costs incurred by University of California Contractors. Permits must be identified and obtained before the Contractor may incur any costs related to the use of the permit(s) for which the Contractor will request reimbursement.

#### **The Contractor shall:**

- Prepare a *Permit Status Letter* that documents the permits required to conduct this Agreement. If no permits are required at the start of this Agreement, then state this in the letter. If permits will be required during the course of the Agreement, provide in the letter:
  - A list of the permits that identifies: (1) the type of permit; and (2) the name, address, and telephone number of the permitting jurisdictions or lead agencies.
  - The schedule the Contractor will follow in applying for and obtaining the permits.

The list of permits and the schedule for obtaining them will be discussed at the Kick-off meeting (subtask 1.2), and a timetable for submitting the updated list, schedule, and copies of the permits will be developed. The impact on the project if the permits are not obtained in a timely fashion or are denied will also be discussed. If applicable, permits will be included as a line item in progress reports and will be a topic at CPR meetings.

- If during the course of the Agreement additional permits become necessary, then provide the CAM with an *Updated List of Permits* (including the appropriate information on each permit) and an *Updated Schedule for Acquiring Permits*.
- Send the CAM a *Copy of Each Approved Permit*.
- If during the course of the Agreement permits are not obtained on time or are denied, notify the CAM within 5 days. Either of these events may trigger a CPR meeting.

#### **Deliverables:**

- Permit Status Letter
- Updated List of Permits (*if applicable*)
- Updated Schedule for Acquiring Permits (*if applicable*)
- Copy of each Approved Permit (*if applicable*)

### **Subtask 1.9 Subcontracts**

The goals of this subtask are to: (1) procure subcontracts required to carry out the tasks under this Agreement; and (2) ensure that the subcontracts are consistent with the terms and conditions of this Agreement.

#### **The Contractor shall:**

- Manage and coordinate subcontractor activities in accordance with the requirements of this Agreement.
- Incorporate this Agreement by reference into each subcontract.
- Include any required Energy Commission flow-down provisions in each subcontract, in addition to a statement that the terms of this Agreement will prevail if they conflict with the subcontract terms.
- If required by the CAM, submit a draft of each *Subcontract* required to conduct the work under this Agreement.
- Submit a final copy of the executed subcontract.

## **Exhibit A Scope of Work**

- Notify and receive written approval from the CAM prior to adding any new subcontractors (see the discussion of subcontractor additions in the terms and conditions).

### **Deliverables:**

- Subcontracts (*draft if required by the CAM*)

## **TECHNICAL ADVISORY COMMITTEE**

### **Subtask 1.10 Technical Advisory Committee (TAC)**

The goal of this subtask is to create an advisory committee for this Agreement. The TAC should be composed of diverse professionals. The composition will vary depending on interest, availability, and need. TAC members will serve at the CAM's discretion. The purpose of the TAC is to:

- Provide guidance in project direction. The guidance may include scope and methodologies, timing, and coordination with other projects. The guidance may be based on:
  - Technical area expertise;
  - Knowledge of market applications; or
  - Linkages between the agreement work and other past, present, or future projects (both public and private sectors) that TAC members are aware of in a particular area.
- Review deliverables and provide recommendations for needed product adjustments, refinements, or enhancements.
- Evaluate the tangible benefits of the project to the state of California, and provide recommendations as needed to enhance the benefits.
- Provide recommendations regarding information dissemination, market pathways, or commercialization strategies relevant to the project deliverables.

The TAC may be composed of qualified professionals spanning the following types of disciplines:

- Researchers knowledgeable about the project subject matter;
- Members of trades that will apply the results of the project (e.g., designers, engineers, architects, contractors, and trade representatives);
- Public interest market transformation implementers;
- Product developers relevant to the project;
- U.S. Department of Energy research managers, or experts from other federal or state agencies relevant to the project;
- United States Navy;
- Public interest environmental groups;
- Utility representatives;
- Air district staff; and
- Members of relevant technical society committees.

### **The Contractor shall:**

- Prepare a *List of Potential TAC Members* that includes the names, companies, physical and electronic addresses, and phone numbers of potential members. The list will be

## **Exhibit A Scope of Work**

discussed at the Kick-off meeting, and a schedule for recruiting members and holding the first TAC meeting will be developed.

- Recruit TAC members. Ensure that each individual understands member obligations and the TAC meeting schedule developed in subtask 1.11.
- Prepare a *List of TAC Members* once all TAC members have committed to serving on the TAC.
- Submit *Documentation of TAC Member Commitment* (such as Letters of Acceptance) from each TAC member.

### **Deliverables:**

- List of Potential TAC Members
- Final list of TAC Members
- Documentation of TAC Member Commitment

### **Subtask 1.11 TAC Meetings**

The goal of this subtask is for the TAC to provide strategic guidance for the project by participating in regular meetings, which may be held via teleconference.

### **The Contractor shall:**

- Discuss the TAC meeting schedule with the CAM at the Kick-off meeting. Determine the number and location of meetings (in-person and via teleconference) in consultation with the CAM.
- Prepare a *TAC Meeting Schedule* that will be presented to the TAC members during recruiting. Revise the schedule after the first TAC meeting to incorporate meeting comments.
- Prepare a *TAC Meeting Agenda* and *TAC Meeting Back-up Materials* for each TAC meeting.
- Organize and lead TAC meetings in accordance with the TAC Meeting Schedule. Changes to the schedule must be pre-approved in writing by the CAM.
- Prepare *TAC Meeting Summaries* that include any recommended resolutions of major TAC issues.

### **Deliverables:**

- TAC Meeting Schedule (draft and final)
- TAC Meeting Agendas (draft and final)
- TAC Meeting Back-up Materials for Agenda Items
- TAC Meeting Summaries including recommended resolution of major TAC issues and action items

## **Exhibit A Scope of Work**

### **III. TECHNICAL TASKS**

#### **TASK 2.0 FINALIZE LCO<sub>2</sub> TEXTILE CLEANING MACHINE DESIGN**

The goal of this task is to establish a finalized design of the LCO<sub>2</sub> textile cleaning machine for installation and collection of pre-installation data.

##### **SUBTASK 2.1**

The goal of this subtask is to establish a finalized and detailed design of the LCO<sub>2</sub> textile cleaning machine for the planned installation at the Naval Base Ventura County / Port Hueneme Naval Base.

##### **The Contractor shall:**

- Finalize the detailed design of the LCO<sub>2</sub> textile cleaning machine, to include but not be limited to:
  - Engineering drawings for machine components
  - Instruction/Operation and maintenance manual
  - Assembly drawing(s)
  - Process flow schematic
- Provide a letter of completion that discusses the detailed design considerations for the Navy Base, and a machine process flow schematic

##### **Deliverables:**

- Letter of completion (draft and final)

##### **SUBTASK 2.2**

The goal of this subtask is collect pre-installation data regarding water, energy, chemical and time.

##### **The Contractor shall:**

- Develop and prepare Pre-Install Report to measure actual, real world operational energy and water utility consumption of current washing methods.
- Conduct CPR and prepare CPR Report #1 per Subtask 1.3

##### **Deliverables:**

- Pre-Install Report (Draft and Final)
- CPR Report #1

#### **TASK 3.0 UPGRADE FACILITY INFRASTRUCTURE**

The goal of this task is to upgrade / update existing Naval base infrastructure to support the operation of the LCO<sub>2</sub> textile cleaning machine.

##### **The Contractor shall:**

- Work with Naval Base Ventura County / Port Hueneme Naval Base Public Works and Naval Facilities Engineering & Expeditionary Warfare Center personnel to update the base infrastructure, including air, electrical, venting, and networking, to support the operation of the LCO<sub>2</sub> textile cleaning machine, and secure required permits.
- Prepare an Infrastructure Update Report to discuss facility upgrades, issues and costs, including pre and post pictures of infrastructure upgrades.

## **Exhibit A Scope of Work**

### **Deliverables:**

- Facility and Infrastructure Upgrade Report (draft and final)

### **TASK 4.0 COMPLETE MACHINE FABRICATION**

The goal of this task is to construct the LCO<sub>2</sub> textile cleaning machine based on finalized design from Task 2.0.

#### **The Contractor shall:**

- Assemble components and complete necessary machine fabrication.
- Assemble a working industrial/commercial LCO<sub>2</sub> textile cleaning machine.
- Prepare a Letter of Assembly Completion that discusses the assembly process and includes pictures to document fabrication of equipment.
- Conduct CPR and prepare CPR Report #2 per Subtask 1.3.

### **Deliverables:**

- Letter of Assembly Completion
- CPR Report #2

### **TASK 5.0 TEST PLAN PREPARATIONS**

The goal of this task is to determine the process optimization testing after LCO<sub>2</sub> textile cleaning machine installation.

#### **The Contractor shall:**

- Prepare a Draft Process Optimization Test Plan. The test plan shall include, but not be limited to:
  - A description of the test and cleaning processes for each textile to be tested
  - Test objectives and technical approach
  - A description of the facilities, equipment and instrumentation that will be used
  - A description of testing procedures for the machine and each textile to include but not be limited to:
    - Parameters to be controlled/varied and how they will be controlled/varied
    - Parameters to be measured and how they will be measured (to include but not be limited to those stated in Measure and Verification [M&V] Plan Task 8)
    - Specifications for machine performance
    - Specification for cleaning performance for each textile
  - A description of the data analysis procedures
  - A description of how the equipment will be commissioned and optimized for energy and cleaning performance.
- Revise and finalize the Process Optimization Test Plan to include feedback from the Technical Advisory Committee, the Energy Commission and others.

### **Deliverables:**

- Process Optimization Test Plan (Draft and Final)

## **Exhibit A Scope of Work**

### **TASK 6.0 INSTALLATION AND COMMISSIONING OF MACHINE AT DEMONSTRATION SITE**

The goal of this task is to install and commission the fabricated machine at the demonstration site.

#### **The Contractor shall:**

- Coordinate the delivery and installation of the machine
- Oversee initial testing of machine functionality
- Ensure that the machine is commissioned and installed and operates properly per the Process Optimization Test Plan.
- Prepare an Initial Machine Performance Report that discusses the installation, initial performance of the machine, and test plan and commissioning results.

#### **Deliverables:**

- Initial Machine Performance Report (Draft and Final)

### **TASK 7.0 OPERATION AND MAINTENANCE OF THE LCO<sub>2</sub> TEXTILE CLEANING MACHINE**

The goals of this task are to train facility personnel to operate and maintain the machine, and to discuss operation and maintenance requirements and costs.

#### **SUBTASK 7.1 OPERATOR TRAINING**

The goal of this subtask is to train facility personnel to operate and maintain the machine.

#### **The Contractor shall:**

- Conduct comprehensive training of Naval facility personnel to ensure proper operation, safety, and maintenance of the machine.
- Prepare a draft Operation, Safety, and Maintenance Guideline document, including equipment and parts lists.
- Prepare a final Operation, Safety, and Maintenance Guideline document after completion of Subtask 7.2 that includes administration, conduct of operations and maintenance, operator knowledge and performance, maintenance procedures and documentation, best practices, equipment modifications and safety procedures.
- Ensure facility personnel are operationally proficient with the new equipment.

#### **Deliverables:**

- Operation, Safety, and Maintenance Guideline (Draft and Final)

#### **SUBTASK 7.2 OPERATION AND MAINTENANCE**

The goals of this subtask are to determine operating functionality (including, but not limited to, utility consumption, throughput amounts, workflow, and disinfection ability), and to obtain measured technical and economic performance.

## **Exhibit A Scope of Work**

### **The Contractor shall:**

- At the direction of the CAM, test various process parameter combinations (for example, temperature, pressure, cycle time, loads and detergents along with different textiles) according to the Process Optimization Test Plan to determine optimal cleaning and disinfection (if applicable) abilities of military and other governmental agencies' textiles.
- Benchmark the LCO<sub>2</sub> machine's operating performance according to the test plan for military and other governmental agencies' textiles, to include but not be limited to the following:
  - Throughput by textile type
  - Disinfection levels (if required)
  - Cleaning performance
  - Textile wear
- Optimize LCO<sub>2</sub> textile cleaning machine at the demonstration site.
- Prepare a Project Performance Report on the machine's overall performance for military and other governmental agencies' textiles and will include, but not be limited to:
  - Process Optimization Test Plan requirements and results of machine performance on the various process parameters of military and other governmental agencies' textiles.
  - Comparison of all relevant performance parameters
  - Cost of LCO<sub>2</sub> cleaning versus conventional perchloroethylene cleaning of military and other governmental agencies textiles in the following areas.
    - Processing
    - Administration
    - Maintenance and Repair
    - Equipment Depreciation
    - Chemical Supply and Detergents
    - Energy
    - Water use
- Conduct CPR and prepare CPR Report #3 per Subtask 1.2.

### **Deliverables:**

- Project Performance Report (Draft and Final)
- CPR Report #3

### **TASK 8.0 MEASUREMENT AND VERIFICATION (M&V)**

The goal of this task is to determine actual, real world operational energy and water utility consumption.

### **The Contractor shall:**

- Develop and prepare M&V Plan to measure actual, real world operational energy and water utility consumption of the LCO<sub>2</sub> machine.
- In consultation with the CAM, develop a methodology to determine how energy and water consumption of the washer/extractor is currently used.
- Measure the energy and water consumption of the LCO<sub>2</sub> machine based on the M&V Plan.

## Exhibit A Scope of Work

- Prepare an M&V Results Report that includes, but is not limited to, energy and water use, savings and costs associated with cleaning various textiles and discussion of the overall economic of the LCO<sub>2</sub> cleaning system compared to conventional methods.

### Deliverables:

- M&V Plan (Draft and Final)
- M&V Results Report (Draft and Final)

### TASK 9.0 Evaluation of Project Benefits

The goal of this task is to report the benefits resulting from this project.

#### The Contractor shall:

- Complete three Project Benefits Questionnaires that correspond to three main intervals in the Agreement: (1) *Kick-off Meeting Benefits Questionnaire*; (2) *Mid-term Benefits Questionnaire*; and (3) *Final Meeting Benefits Questionnaire*.
- Provide all key assumptions used to estimate projected benefits, including targeted market sector (e.g., population and geographic location), projected market penetration, baseline and projected energy use and cost, operating conditions, and emission reduction calculations. Examples of information that may be requested in the questionnaires include:
  - For Product Development Projects and Project Demonstrations:
    - Published documents, including date, title, and periodical name.
    - Estimated or actual energy and cost savings, and estimated statewide energy savings once market potential has been realized. Identify all assumptions used in the estimates.
    - Greenhouse gas and criteria emissions reductions.
    - Other non-energy benefits such as reliability, public safety, lower operational cost, environmental improvement, indoor environmental quality, and societal benefits.
    - Data on potential job creation, market potential, economic development, and increased state revenue as a result of the project.
    - A discussion of project product downloads from websites, and publications in technical journals.
    - A comparison of project expectations and performance. Discuss whether the goals and objectives of the Agreement have been met and what improvements are needed, if any.
    - Additional Information for Product Demonstrations:
      - Outcome of demonstrations and status of technology.
      - Number of similar installations.
      - Jobs created/retained as a result of the Agreement.
  - Respond to CAM questions regarding responses to the questionnaires

The Energy Commission may send the Contractor similar questionnaires after the Agreement term ends. Responses to these questionnaires will be voluntary.

## **Exhibit A Scope of Work**

### **Deliverables:**

- Kick-off Meeting Benefits Questionnaire
- Mid-term Benefits Questionnaire
- Final Meeting Benefits Questionnaire

### **TASK 10.0 Technology/Knowledge Transfer Activities**

The goal of this task is to develop a plan to make the knowledge gained, experimental results, and lessons learned available to the public and key decision makers.

#### **The Contractor shall:**

- Prepare an *Initial Fact Sheet* at start of the project that describes the project. Use the format provided by the CAM.
- Prepare a *Final Project Fact Sheet* at the project's conclusion that discusses results. Use the format provided by the CAM.
- Prepare a *Technology/Knowledge Transfer Plan* that includes:
  - An explanation of how the knowledge gained from the project will be made available to the public, including the targeted market sector and potential outreach to end users, utilities, regulatory agencies, and others.
  - A description of the intended use(s) for and users of the project results.
  - Published documents, including date, title, and periodical name.
  - Copies of documents, fact sheets, journal articles, press releases, and other documents prepared for public dissemination. These documents must include the Legal Notice required in the terms and conditions. Indicate where and when the documents were disseminated.
  - A discussion of policy development. State if project has been or will be cited in government policy publications, or used to inform regulatory bodies.
  - The number of website downloads or public requests for project results.
  - Additional areas as determined by the CAM.
- Conduct technology transfer activities in accordance with the Technology/Knowledge Transfer Plan. These activities will be reported in the Progress Reports.
- When directed by the CAM, develop *Presentation Materials* for an Energy Commission-sponsored conference/workshop on the results of the project.
- Prepare a *Technology/Knowledge Transfer Report* on technology transfer activities conducted during the project.

#### **Deliverables:**

- Initial Fact Sheet (draft and final)
- Final Project Fact Sheet (draft and final)
- Presentation Materials (draft and final)
- Technology/Knowledge Transfer Plan (draft and final)
- Technology/Knowledge Transfer Report (draft and final)

### **TASK 11.0 PRODUCTION READINESS PLAN**

The goal of the plan is to determine the steps that will lead to the volume manufacturing of the technologies developed in this project.

## **Exhibit A Scope of Work**

### **The Contractor shall:**

- Prepare a Production Readiness Plan. The degree of detail in the Production Readiness Plan discussion should be proportional to the complexity of producing the proposed product and its state of development. The plan shall include, as appropriate, but not be limited to:
  - Identification of critical production processes, equipment, facilities, personnel resources, and support systems that will be needed to produce a commercially viable product.
  - Internal manufacturing facilities, as well as supplier technologies, capacity constraints imposed by the design under consideration, identification of design critical elements and the use of hazardous or non-recyclable materials. The product manufacturing effort may include “proof of production processes.”
  - A projected “should cost” for the product when in production.
  - The expected investment threshold to launch the commercial product.
  - An implementation plan to ramp up to full production.

### **Deliverables:**

- Production Readiness Plan (Draft and Final)

## **IV. PROJECT SCHEDULE**

See attached Excel Worksheet for Schedule

STATE OF CALIFORNIA

STATE ENERGY RESOURCES  
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: CO2NEXUS, INC.

**RESOLVED**, that the State Energy Resources Conservation and Development Commission (Energy Commission) adopts the staff CEQA findings contained in the Agreement Request Form; and

**RESOLVED**, that the Energy Commission approves Agreement 500-14-004 with **CO2Nexus, Inc.** for a **\$900,300** contract to demonstrate an alternative laundry system using liquid carbon dioxide. This unique system will be demonstrated at the Naval Base Ventura County at Port Hueneme and will reduce natural gas, electricity and water used for cleaning military combat garments, general purpose fabrics and textiles, fire retardant items, military protective clothing and field equipment that requires special handling. In many cases these textiles cannot currently be laundered without losing their protective capabilities. CO2Nexus will evaluate the performance, energy savings, cleaning, and operational costs; and

**FURTHER BE IT RESOLVED**, that the Executive Director or his/her designee shall execute the same on behalf of the Energy Commission.

**CERTIFICATION**

The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the California Energy Commission held on May 13, 2015.

AYE: [List of Commissioners]

NAY: [List of Commissioners]

ABSENT: [List of Commissioners]

ABSTAIN: [List of Commissioners]

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Harriet Kallemeyn,

Secretariat