

autonomous hydrophone position locating and target tracking system" filed on September 30, 2009; U.S. Patent Application Ser. No. 12/587,323 entitled "Power conditioner for microbial fuel cells" filed on September 30, 2009; U.S. Patent Application Ser. No. 12/730,398 entitled "Outboard optical cable sensor system and method" filed on March 24, 2010; U.S. Patent Application Ser. No. 12/651,559 entitled "A method to generate propulsor side forces" filed on January 4, 2010; U.S. Patent Application Ser. No. 12/291,053 entitled "Fiber optic accelerometer mandrel with shear prevention" filed on July 2, 2009; U.S. Patent Application Ser. No. 12/536,157 entitled "Class-specific iterated subspace classifier" filed on August 5, 2009; U.S. Patent Application Ser. No. 12/322,960 entitled "A multi-resolution hidden markov model using class-specific features" filed on January 29, 2009; U.S. Patent Application Ser. No. 12/380,863 entitled "Crimp imbalanced protective fabric" filed on March 4, 2009; U.S. Patent Application Ser. No. 12/728,451 entitled "Tsunami detection system" filed on March 22, 2010; U.S. Patent Application Ser. No. 12/587,328 entitled "Parallel plate antenna" filed on September 30, 2009; U.S. Patent Application Ser. No. 12/587,329 entitled "Compact and stand-alone combined multi-axial and shear test apparatus" filed on September 25, 2009; U.S. Patent Application Ser. No. 12/693,708 entitled "Battery electrolyte-level detector apparatus" filed on January 26, 2010; U.S. Patent Application Ser. No. 12/460,909 entitled "A method for mitigating spatial aliasing" filed on October 15, 2009; U.S. Patent Application Ser. No. 12/386,183 entitled "A method for determining a concentration of hydrogen peroxide" filed on April 10, 2009; U.S. Patent Application Ser. No. 12/386,184 entitled "A method of making a bipolar electrode" filed on April 10, 2009; U.S. Patent Application Ser. No. 12/462,659 entitled "Material with improved adhesion surface" filed on August 6, 2009.

**FOR FURTHER INFORMATION CONTACT:** Dr. Theresa A. Baus, Head, Technology Partnership Enterprise Office, Naval Undersea Warfare Center Division, Newport, 1176 Howell St., Newport, RI 02841-1703, telephone 401-832-8728, e-mail [Theresa.baus@navy.mil](mailto:Theresa.baus@navy.mil).

(Authority: 35 U.S.C. 207, 37 CFR Part 404.)

Dated: March 25, 2010.

**A.M. Vallandingham,**

*Lieutenant Commander, Judge Advocate  
Generals Corps, U.S. Navy, Federal Register  
Liaison Officer.*

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**BILLING CODE 3810-FF-P**

## DEPARTMENT OF DEFENSE

### Department of the Navy

#### Notice of Availability of Government-Owned Inventions; Available for Licensing

**AGENCY:** Department of the Navy, DoD.

**ACTION:** Notice.

**SUMMARY:** The Department of the Navy hereby gives notice of the availability of exclusive or partially exclusive licenses to practice worldwide under the following issued patents. Any license granted shall comply with 35 U.S.C. 209 and 37 CFR Part 404. Applications will be evaluated utilizing the following criteria: (1) Ability to manufacture and market the technology; (2) manufacturing and marketing ability; (3) time required to bring technology to market and production rate; (4) royalties; (5) technical capabilities; and (6) small business status.

7,182,599, "Method and apparatus for removing mercury and mercury containing particles from dental waste water", Inventors: Jeffrey Gullett, John Kuehne, and Mark Stone, issued February 27, 2007; 7,201,902, "Production of recombinant protein PAP31 for the diagnosis and prevention of bartonella bacilliformis infection", Inventors: Wei Mei Ching, Laura Hendrix, and Jesus Gonzalez, issued April 10, 2007; 7,306,808, "Orientia tsutsugamushi truncated recombinant outer membrane protein (r47 and r57) vaccines diagnostics and therapeutics for scrub typhus and HIV infections", Inventors: Wei Mei Ching, Chien Chung Chao, and Hong Ge, issued December 11, 2007; 7,329,503, "Identification of antigens for diagnosis and prevention of Q fever (recombinant antigens for the detection of coxiella burnetii)", Inventors: Wei Mei Ching, and Chien Chung Chao, issued February 12, 2008; 7,335,477, "Expression and refolding of truncated recombinant major outer membrane protein antigen (r56) of orientia tsutsugamushi and its use in antibody based detection assays and vaccines", Inventors: Wei Mei Ching, Gregory Dasch, and Daryl Kelly, issued February 26, 2008; 7,371,821, "Cloning and expression of the full length 110 KDA antigen of orientia tsutsugamushi to be used as a vaccine component

against scrub typhus", Inventors: Wei Mei Ching and Chien Chung Chao, issued May 13, 2008; 7,504,202, "A rapid immunoassay of anthrax protective antigen in vaccine cultures by fluorescence polarization", Inventors: Malford Cullum, Lloyd Simonson, Paul Hine, Chun Shih, Diane Bienek, Sukjoon Park, and James Ragain, issued March 17, 2009; 7,544,778, "Recombinant antigens for diagnosis and prevention of murine typhus", Inventor: Wei Mei Ching, issued June 9, 2009; 7,638,130, "Expression and refolding of truncated recombinant major outer membrane protein antigen (r56) of orientia tsutsugamushi and its use in antibody based detection assays and vaccines", Inventors: Wei Mei Ching, Gregory Dasch, and Daryl Kelly, issued December 29, 2009; 7,649,028, "Interim dental dressing and restorative material", Inventors: Amer Tiba, David Charlton, and James Ragain, issued January 29, 2010; 7,673,746, "Recycling container (to minimize release of Hg vapor) for the collection and temporary storage of mercury contaminated wastes in the dental operator", Inventors: Mark Stone, Ronald Karaway, and Denise Berry, issued March 9, 2010; and their related foreign filings.

**DATES:** Applications for a non-exclusive, exclusive or partially exclusive license may be submitted at any time from the date of this notice.

**ADDRESSES:** Submit applications to the Office of Technology Transfer, Naval Medical Research Center, 503 Robert Grant Ave., Silver Spring, MD 20910-7500.

**FOR FURTHER INFORMATION CONTACT:** Dr. Charles Schlagel, Director, Office of Technology Transfer, Naval Medical Research Center, 503 Robert Grant Ave., Silver Spring, MD 20910-7500, telephone 301-319-7428 or e-mail at: [charles.schlagel@med.navy.mil](mailto:charles.schlagel@med.navy.mil).

Dated: March 30, 2010

**A.M. Vallandingham,**

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Generals Corps, U.S. Navy, Federal Register  
Liaison Officer.*

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**BILLING CODE 3810-FF-P**

## DEPARTMENT OF DEFENSE

### Department of the Navy

#### Meeting of the Board of Visitors of the Marine Corps University

**AGENCY:** Department of the Navy, DoD.

**ACTION:** Notice of open meeting.

**SUMMARY:** The Board of Visitors of the Marine Corps University (BOV MCU)

will meet to review, develop and provide recommendations on all aspects of the academic and administrative policies of the University; examine all aspects of professional military education operations; and provide such oversight and advice, as is necessary, to facilitate high educational standards and cost effective operations. The Board will be focusing primarily on the internal procedures of the Marine Corps University. All sessions of the meeting will be open to the public.

**DATES:** The meeting will be held on Friday, April 30, 2010, from 8 a.m. to 4:30 p.m.

**ADDRESSES:** The meeting will be held at Marine Corps University President's Conference Room (Hooper Room). The address is: 2076 South Street, Quantico, Virginia 22134.

**FOR FURTHER INFORMATION CONTACT:** Mary Lanzillotta, Executive Secretary, Marine Corps University Board of Visitors, 2076 South Street, Quantico, Virginia 22134, telephone number 703-784-4037.

Dated: March 30, 2010.

**A.M. Vallandingham,**

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## DEPARTMENT OF ENERGY

### Hydrogen Energy California's Integrated Gasification Combined Cycle Project, Kern County, CA— Notice of Intent To Prepare an Environmental Impact Statement and Notice of Potential Floodplain and Wetlands Involvement

**AGENCY:** Department of Energy.

**ACTION:** Notice of intent and notice of potential floodplain and wetlands involvement.

**SUMMARY:** The U.S. Department of Energy (DOE or the Department) announces its intent to prepare an Environmental Impact Statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321 *et seq.*), the Council on Environmental Quality's NEPA regulations (40 CFR parts 1500-1508), and DOE's NEPA regulations (10 CFR part 1021) to assess the potential environmental impacts of providing financial assistance for the construction and operation of a project proposed by Hydrogen Energy California LLC (HECA). DOE selected this project for an award of financial assistance through a

competitive process under the Clean Coal Power Initiative (CCPI) program.

The project proposed by HECA would demonstrate Integrated Gasification Combined Cycle (IGCC) technology with carbon capture in a new baseload electric generating plant in Kern County, California. The plant would use blends of coal and petroleum coke (petcoke) or petcoke alone as its feedstock, and would demonstrate carbon capture and sequestration on a commercial scale.

The HECA project would gasify the coal and petcoke to produce synthesis gas (syngas), which would then be processed and purified to produce a hydrogen-rich fuel. The hydrogen would be used to power a combustion turbine, generating electricity while minimizing emissions of sulfur dioxide, nitrogen oxides, mercury, and particulates compared to conventional coal-fired power plants. In addition, the project would achieve a carbon dioxide (CO<sub>2</sub>) capture efficiency of approximately 90 percent at steady-state operation. The captured CO<sub>2</sub> would be compressed and transported via pipeline to the adjacent Elk Hills Field (owned and operated by Occidental of Elk Hills, Inc.) for injection into deep underground oil and gas reservoirs for enhanced oil recovery (EOR) and geologic sequestration.

The EIS will inform DOE's decision on whether to provide financial assistance under its CCPI Program to the project proposed by HECA, which has an estimated capital cost of \$2.3 billion. DOE's financial assistance (or "cost share") would be limited to \$308 million, about 11 percent of the project's total cost. DOE's financial assistance is also limited to certain aspects of the power plant, carbon capture, and sequestration. The EIS will evaluate the potential impacts of DOE's proposed action (provision of financial assistance), the project proposed by HECA and any connected actions, and reasonable alternatives to DOE's proposed action. The purposes of this Notice of Intent are to: (1) Inform the public about DOE's proposed action and HECA's proposed project; (2) announce the public scoping meeting; (3) solicit comments for DOE's consideration regarding the scope and content of the EIS; (4) invite those agencies with jurisdiction by law or special expertise to be cooperating agencies in preparation of the EIS; and (5) provide notice that the proposed project may involve potential impacts to floodplains and wetlands.

DOE does not have regulatory jurisdiction over the HECA project. Its decisions are limited to whether and

under what circumstances it would provide financial assistance to the project. There are a number of state and federal agencies that do have regulatory authority over the project; one of them is the California Energy Commission (CEC), which is responsible for power plant licensing under the Warren-Alquist Act (Cal. Pub. Res. Code section 25500 *et seq.*). This licensing process, which will consider all relevant environmental aspects of HECA's proposed project and related facilities, is defined by California law, and under state law is certified as fulfilling the requirements of the California Environmental Quality Act (CEQA; Cal. Pub. Res. Code section 21000 *et seq.*). Under this certified process, CEC holds public hearings, makes a final staff assessment, conducts evidentiary hearings, and issues a decision based on the hearing record, which includes the staff's and other parties' assessments. Through this process, the CEC staff will conduct an independent analysis of the proposed project and prepare an independent assessment of its potential environmental impacts, conditions of certification (e.g. mitigation measures), and alternatives. The staff will consult with interested Native American tribes and local, regional, state, and federal agencies, and CEC will coordinate its environmental review with other agencies, including the California Department of Oil, Gas and Geothermal Resources (DOGGR). DOE understands that, pursuant to California law and a grant of primacy from the United States Environmental Protection Agency regarding Class II wells under section 1425 of the Safe Drinking Water Act, DOGGR has responsibility for permitting EOR injection and extraction wells, and is likely to have the regulatory lead for the CO<sub>2</sub> sequestration aspects of the proposed project, and would impose permit conditions on these aspects of the project that are needed to ensure the HECA project's compliance with California's requirements regarding CO<sub>2</sub> emissions from power plants.<sup>1</sup>

DOE intends to coordinate its NEPA review of the HECA project with the environmental review conducted by CEC as lead agency under CEQA. It will work closely with CEC throughout its regulatory processes in order to integrate the NEPA and CEQA processes in an efficient and expeditious manner. In particular, DOE will work with CEC

<sup>1</sup> DOE anticipates that, pursuant to Cal. Pub. Res. Code section 21000 *et seq.*, California agencies will impose mitigation measures to address potential impacts and project design elements to verify the sequestration of CO<sub>2</sub> injected for EOR.