

DEPARTMENT OF DEFENSE**Department of the Army; Corps of Engineers****Notice of Intent To Grant Partially Exclusive License of U.S. Patent Application No. 11/82,432 Entitled "A Method and System for Treating Metal-Containing Fluid Emissions" and U.S. Patent Application No. 10/931,232 "Perlite Sorbents for Vapor Phase Metals and Metals Compounds"**

AGENCY: Department of the Army, U.S. Army Corps of Engineers, DOD.

ACTION: Notice.

SUMMARY: In accordance with 37 CFR 404.7(a)(1)(i), announcement is made of a prospective partially exclusive license for specific applications of small ammunition destruction, soil remediation from contaminants, and Municipal Solid Waste (MSW) recycling (converting waste products into reusable materials) in worldwide markets.

DATES: Written objections must be filed not later than 15 days following publication of this announcement.

ADDRESSES: United States Army Corps of Engineers Research and Development Center, Office of Technology Transfer and Outreach, ATTN: CEERD-OT (Ms. Bea Shahin), 2902 Newmark Drive, Champaign, IL 61822-1076.

FOR FURTHER INFORMATION CONTACT: Ms. Bea Shahin, (217) 373-7234, Fax (217) 373-7210; Internet Bea.S.Shahin@usace.army.mil.

SUPPLEMENTARY INFORMATION: Emissions from military deactivation furnaces contain toxic metal vapors and particulates at high temperatures reaching 1200 °F. Based on the speciation studies conducted by U.S. Army Engineer Research and Development Center, Construction Engineering Research Laboratory (ERDC-CERL) on emissions from deactivation furnaces, lead, cadmium, antimony and other metals released are in two phases as solid particulates and vapor phase. It is also observed that nearly 97% of the metals are in particulate form. Thus if we can capture the solid particulates, the metals emissions would be significantly reduced. However, it is necessary to capture the vapor phase metal compounds also to reduce the total emissions well below the National Emissions Standards for Hazardous Air Pollutants (NESHAP) standards. Thus ERDC-CERL has developed an emissions control system, Integrated Metal Emissions Control System (IMECS™) to capture the particulates

and the vapor phase metal compounds. The two patents involved here describe capturing particulate emissions as well as vapor phase toxic/hazardous compounds from combustion processes. The technology involves *Steel Screen Particulate (SSP) Filter System* that is capable of capturing the particulate material (including PM_{2.5}) followed by a *Perlite Based Sorbent (PBS)* fixed bed system. The IMECS™ can be operated at high temperatures and can significantly remove large quantities of lead and other metal compounds. The IMECS™ is compact and can be sized conveniently and integrated with mobile and stationary incinerator systems alike. Emissions of volatile and semi-volatile metal particulates as well as select organics may be captured from deactivation furnaces, solid waste incinerators, can be cost effectively controlled with the IMECS™.

Brenda S. Bowen,

Army Federal Register Liaison Officer.

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BILLING CODE 3710-92-P

DEPARTMENT OF EDUCATION**Office of Elementary and Secondary Education; Overview Information: Alaska Native Education Program; Notice Inviting Applications for New Awards for Fiscal Year (FY) 2008**

Catalog of Federal Domestic Assistance (CFDA) Number: 84.356A.

DATES:

Applications Available: January 25, 2008.

Deadline for Transmittal of Applications: March 10, 2008.

Full Text of Announcement**I. Funding Opportunity Description**

Purpose of Program: The purpose of this program is to develop and support supplemental educational programs to benefit Alaska Natives. Permissible activities under this program include the following: (1) Development and implementation of plans, methods, and strategies to improve the education of Alaska Natives; (2) development of curricula and educational programs that address the educational needs of Alaska Native students; (3) professional development activities for educators; (4) development and operation of home instruction programs for Alaska Native preschool children, to ensure the active involvement of parents in their children's education from the earliest ages; (5) family literacy services; (6) development and operation of student enrichment programs in science and

mathematics; (7) research and data collection activities to determine the educational status and needs of Alaska Native children and adults; (8) other research and evaluation activities related to programs carried out under Alaska Native education programs; (9) remedial and enrichment programs to assist Alaska Native students in performing at a high level on standardized tests; (10) education and training of Alaska Native students enrolled in a degree program that will lead to certification or licensing as teachers; (11) parenting education for parents and caregivers of Alaska Native children to improve parenting and caregiving skills (including skills relating to discipline and cognitive development and parenting education provided through in-home visitation of new mothers); (12) activities carried out through Even Start programs under subpart 3 of part B of Title I of the Elementary and Secondary Education Act of 1965, as amended (ESEA), and Head Start programs under the Head Start Act, including the training of teachers for Even Start and Head Start programs; (13) other early learning and preschool programs; (14) dropout prevention programs; (15) career preparation activities to enable Alaska Native children and adults to prepare for meaningful employment, including programs providing "tech-prep," mentoring, training, and apprenticeship activities; (16) provision of operational support and purchasing of equipment to develop regional vocational schools in rural areas of Alaska, including boarding schools, for Alaska Native students in grades 9 through 12, or at higher levels of education, to provide the students with necessary resources to prepare for skilled employment opportunities; (17) construction of facilities that support the operation of Alaska Native education programs; and (18) other activities, consistent with the purposes of this program, to meet the educational needs of Alaska Native children and adults.

Priorities: This competition includes a competitive preference priority and an invitational priority. In accordance with 34 CFR 75.105(b)(2)(iv), the competitive preference priority is from section 7304(c) of the ESEA (20 U.S.C. 7544(c)). The invitational priority is from the notice of final priorities for discretionary grant programs, published in the **Federal Register** on October 11, 2006 (71 FR 60046).

Competitive Preference Priority: For FY 2008 and any subsequent year in which we make awards based on the list of unfunded applicants from this competition, this priority is a