National Project Management Corp.

National Project Management Corp. submits innovative technology for DOE funding opportunity

FOR IMMEDIATE RELEASE

July 23, 2013, Oswego, N.Y. — A competing bid for the Department of Energy (DOE) Innovative Small Modular Reactor Funding Opportunity Announcement 0000800 goes beyond traditional light water reactor technology to bring true innovation to the table.

National Project Management Corporation, in partnership with Pebble Bed Modular Reactor, South Africa, New York State, the City of Oswego, N.Y., Port Authority of Oswego, Empire State Development and NYSERDA submitted a proposal on July 1 for a Gas Turbine Modular Helium Reactor (GT-MHR).

The U.S. currently lacks the technology to permanently destroy light water reactor spent fuel. Additionally, the U.S. does not have technology to support the emerging hydrogen energy markets or the growing demand for electricity. The objective of the project proposed by National Project Management Corporation is to design a Gas Turbine-Modular Helium Reactor (GT-MHR) that will serve as a **common nuclear engine** that is adaptable to three specific applications:

- **Deep Burn** (Spent Fuel Incineration / Transmutation)
- **Hydrogen** Fuel Production
- **Electricity** Production (165 MWe)

The GT-MHR is a proven and **inherently safe** nuclear reactor concept with an easily understood safety basis that permits substantially reduced emergency planning requirements and improved site selection flexibility compared to light water nuclear technologies. In addition, the GT-MHR offers simplified RG 1.206 certification.

The GT-MHR Deep Burn technology would not only destroy most of the long-lived waste, it would make the existing stockpiles a very valuable source of energy, since it could be used to deliver many times the energy of the original fuel.

The GT-MHR also offers the potential for the cogeneration of electricity and hydrogen, alongside process heat applications. As the basic technology for GT-MHR systems has already been established in high temperature gas reactor plants, the design is an evolutionary development.

For more information on National Project Management Corporation, please visit us on the web.

	PHONE	FAX	WEB
150 West 4th Street, Oswego, NY 13126	315-806-6620	315-216-6285	www.NationalPMC.com

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About National Project Management Corp.

NPMC is proposing a concept that will eliminate both weapons grade and long-term radioactive toxic material in spent fuel through a process called **Deep-Burn**. This process will exponentially increase the safety of the community and create an inherently safe nuclear power plant system producing hydrogen as the source of the nexGEN fuel and new economy.

Media Contact: Susan Cole, 315-708-8024, susan.cole@outlook.com