

IAN DTRA SBIR Overview for EMP-Protected Microgrids and Critical Infrastructure: SBIR Phase III Commercialization Contracts

SBIR Phase III Commercialization Contracts Based on Final Report of the IAN DTRA Phase 1 SBIR Contract: HDTRA1-16-P-0025; **Innovative Strategies, Technologies, and Funding for EMP-Protected Critical Infrastructure and Microgrids**

Proposal: T152-006-0151, Accelerating Society-wide EMP Protection of Critical Infrastructure and Micro-grids

Federal agencies can now create SBIR Phase III commercialization contracts based on the Instant Access Networks, LLC (IAN) final Phase I report entitled “Innovative Strategies, Technologies and Funding for EMP-Protected Critical Infrastructure and Microgrids” was accepted by the Defense Threat Reduction Agency (DTRA) in December 2016 (HDTRA1-16-P-0025). Phase I work was in response to the concern from DTRA that defense critical infrastructure and the civilian infrastructure on which it relies could cease to function due to various kinds of electromagnetic (EM) interference. Follow-on proposals can be used to offer ways to protect infrastructure from EM interference and operate in “Island-mode” (without power from commercial grids), indefinitely. EM-protected microgrids operating in Island-mode can connect with one another and eventually reconnect to the grid as it is restored.

Providing EM-protected microgrids and communications is essential to maintaining “command and control” for the National Guard, governors, local governments and the critical infrastructure providers. Since DTRA has concluded that EM threats are imminent, there is an urgent and important need for the National Guard to establish EM-protected microgrids and communications immediately.

The successfully completed Phase I project with IAN can now be used as the basis for a Phase III contract vehicle to provide EM-protected microgrids, communications and other essential functions for the National Guard in an expedited manner. There is no time limit for the National Guard and other agencies to launch a Phase III (or Phase II) proposal contingent upon completion of Phase I. These phases are considered to have been already competed so there is no need for additional competition. In effect, this program functions as a sole-source procurement vehicle. Phase III contracts can be written as ID/IQ contracts for up to ten years each. As contract holder, IAN performs as the prime contractor with over 40 companies to team with as subcontractors or suppliers for R&D Phase III projects. The National Guard also has access through Phase III contracts for commercial, off-the-shelf technology through non-SBIR funds.