

Contract: HR0011-09-C-0006

Individual Force Protection System (IFPS) Generation I / Generation II Research and Development Program

The IFPS Generation I / Generation II contract is a 24 month advanced research and development contract with options to perform additional experimentation and provide engineering support for an additional 36 months. The contracting and funding agency is the Defense Advanced Research Projects Agency (DARPA) and the end user of the prototype Gen I IFPS system will be the Marine Corps.

The DARPA Individual Force Protection System (IFPS) program has developed localization technology based on a very low probability of detection (LPD) signaling device. IFPS uses rf tag signals to provide alerts when a person is in duress. The IFPS Gen I tag only transmits its signal when activated by the person carrying it. The signal is a spread spectrum signal that is coded and transmitted as a pulse once per second. Multiple ground receivers, a single airborne receiver or a combination of ground and airborne receivers provide the identity and location of the tag that has been activated.

The Marine Corps and DARPA established a Memorandum of Agreement that specifies 3,000 tags, 12 receivers, 4 localizers and other ancillary equipment will be provided. The quantities required by the Marine Corps were to permit sufficient assets to perform limited user testing and CONOPS development. The first 100 Gen I tags, 4 receivers, 1 localizer and associated ancillary equipment are scheduled to be delivered to the Marine Corps on 29 June 2009 with full delivery of 3,000 tags, 12 receivers, 4 localizers and additional ancillary equipment completed by 31 December 2009.

SAIC will also research, develop, build and test a prototype Gen II IFPS system that eliminates tag synchronization, provides receiver self-calibration capability, and investigates the feasibility of a low-cost receiver. Ten prototype Gen II tags and 4 Gen II receivers will be produced for DARPA. The Gen II rf tag emissions are currently contemplated to be the same as the Gen I rf tag. Should this change SAIC will file an amendment to the current license application.