



COMBATING TERRORISM TECHNICAL SUPPORT OFFICE
4800 Mark Center Drive
Alexandria, VA 22350

May 8, 2012

MEMORANDUM FOR THE RECORD

SUBJECT: United States Government's Combating Terrorism Technical Support Office Support of the Development and Testing of the JP Laboratories Self-indicating Radiation Dosimeter (SIRAD) Technology

1. The Interagency Combating Terrorism Technical Support Office (CTTSO) has been involved with and supported the JP Laboratories self-indicating radiation dosimeter technology since late 2001. Building on early support by the National Cancer Institute (NCI) of the U.S. Department of Health and Human Services and the U.S. Department of the Navy Radiation Dosimetry Program, JP Laboratories submitted a proposal with the Navy Dosimetry Program under a CTTSO research and development solicitation. This solicitation sought innovative technologies across a wide-range of requirements to combat terrorism in the aftermath of the attacks on September 11, 2001.
2. Out of the more than 12,500 proposals submitted, the Navy Dosimetry Program- JP Laboratories submission was one of more than 600 submissions that advanced to Phase 2 and then was one of about 100 that advanced to Phase 3 and contract award. The research and development work which included test and evaluation of the JP Laboratories dosimeters by the Navy Dosimetry Program. The contract included a modification for a special urgent delivery of early prototype dosimeters in November 2002 in support of impending U.S. military operations in Iraq. Reports back from U.S. forces using the dosimeter were very favorable. The card was reliable, did not require batteries, was lightweight and continued to work if it got wet or muddy.
3. In September 2003, CTTSO was asked to testify before Congress, specifically the House Committee on Government Reform, Subcommittee on National Security, Emerging Threats and International Relations on "Counterterrorism Technology." JP Laboratories was one of two companies invited by CTTSO to testify with us. Dr Patel's testimony on Capitol Hill is part of the public record of the U.S. Congress. See <http://www.gpo.gov/fdsys/pkg/CHRG-108hrg92393/pdf/CHRG-108hrg92393.pdf>.
4. Following the success of the first contract, JP Laboratories submitted a proposal to the 2003 CTTSO solicitation. This proposal was competitively selected with a new contract awarded in October 2003 and ran through mid-2006. This contract in keeping with the CTTSO/TSWG Interagency mission was supported with funding from the Department of Defense, the Department of Homeland Security, the Department of Justice and the Department of State. During 2005 and early 2006, the JP Laboratories SIRAD dosimeter was independently tested in the laboratory and in the field by the Department of Homeland Security's Environmental Testing Laboratory. The laboratory studies were based on ANSI N13.11 Accident Subcategories IA and IB standard. In the field test, approximately eight hundred SIRAD dosimeters with attached back-up thermoluminescent dosimeters (TLDs) have been distributed to 14 emergency responder organizations in New Jersey, New York, and Illinois. The organizations involved were: Port Authority of NY/NJ, NJ Dept of Fire Safety, NJ National Guard, NJ Division of Criminal Justice, NJ Dept of Agriculture - State Emergency Preparedness Group, NJ Dept of Environmental Protection - Emergency Response & Env. Radiation, NJ Department of Health, NJ Dept of Transportation, NJ University of Medicine & Dentistry (EMS personnel), NJ State Police, IL State Police, Chicago Fire Department, DOE RAP team (based at Argonne National Lab), and Chicago Police

(delivery scheduled for Dec 2, 2005). The final report from DHS (DHS/S&T/SED/CMTB-2007-003) is posted on the CTTSO/TSWG web site (<http://www.tswg.gov/subgroups/cbrnc/detection/EML627SiradReport.pdf>).

5. CTTSO/TSWG has supplied JP Laboratories' dosimeters to the United States Park Police, the Federal Bureau of Investigation, the Department of State, the Department of Energy, the Department of Homeland Security and many elements of the Department of Defense.

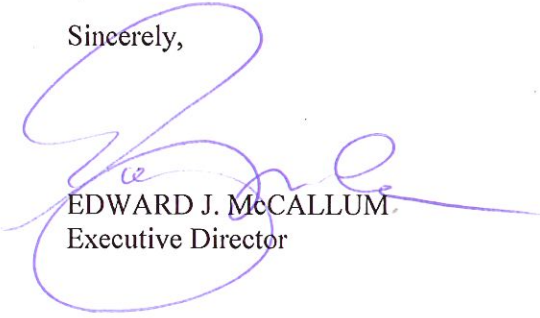
6. With the end of the second CTTSO contract, JP Laboratories continued to develop the technology and advanced products with its own funds. In April 2007, CTTSO was requested to participate in a technology demonstration for the United States Congress. JP Laboratories was one of the featured technologies. In the photo, Dr. Patel describes his technology and products to Department of Homeland Security Undersecretary for Science and Technology Jay Cohen who is shaking hands with Dr. Gladys Klemic of the Department of Homeland Security Environmental Measurements Laboratory. Dr. Klemic directed the independent testing of the dosimeter discussed in paragraph 4 above.



7. Since 2009, CTTSO has had frequent exchanges with the Research Institute of Science and Technology for Society (RISTEX) of the Japanese Science and Technology Agency. The exchange involved attendance of Japanese authorities at CTTSO conferences and RISTEX hosting of the CTTSO Chief of Staff and Science Advisor in Japan. The JP Laboratories dosimeter was included in these discussions. On March 13, 2011 as the extent of the damage to the nuclear reactors following the Great Tohoku Earthquake began to be understood, CTTSO received an urgent request for assistance from RISTEX and an officer of the Tokyo Fire Department who had knowledge of the JP Laboratories dosimeter. Working with JP Laboratories, an emergency purchase order for more than 35,000 RadTriage and RadSticker devices was put in place. The first group of dosimeters was hand-carried from JP Laboratories late at night in order to be put on a plane with a Department of State team en route Tokyo the following morning to provide special support to the United States Embassy. The dosimeters were transferred to RISTEX for distribution to Japanese Self-Defence Force and Tokyo Fire Department personnel working in the contaminated area surrounding the damaged reactors

8. In supporting the development of SIRAD, CTTSO sought to make available in the marketplace a rugged, reliable and affordable casualty radiation dosimeter for use by the military, public safety, other critical response personnel and the public. JP Laboratories met those goals and has advanced the technology even further.

Sincerely,


EDWARD J. McCALLUM
Executive Director