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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 377TH AIR BASE WING (AFGSC)

Colonel Lance K. Kawane
377 ABW/CV
2000 Wyoming Blvd SE
Kirtland AFB NM 87117

04 FEB 2016

Mr. John Greenewald
[REDACTED]

Dear Mr. Greenewald

This is the Air Force Global Strike Command's response to your Freedom of Information Act (FOIA) request, Case No. 2016-01047-F, received by the FOIA Office, Kirtland AFB, on 22 Dec 15, seeking a report from TracLabs, Inc., no. AFRL-RV-PS-TR-2015-0090. The responsive document is a Final Report generated by TracLabs, Inc. consisting of 58 pgs. For the reasons set forth below, this report is being provided in redacted form.

Exemption 3 of the FOIA mandates the withholding of information prohibited from disclosure by another statute. 5 U.S.C. 552(b)(3). Exemption (b)(3) applies to certain technical data privileged from disclosure under 10 USC 130 and 22 USC 2778(e) (Arms Export Control Act). Accordingly, such protected information has been properly redacted from the report. The authority for this exemption is the U.S. Code, Title 5, Section 552(b)(3) and Department of Defense (DoD) Regulation 5400.7-R_AFMAN 33-302, 21 Oct 10, paragraph C3.2.1.3. See also Colonial Trading Corp. v. Dep't of the Navy, 735 F. Supp. 429, 431 (D.D.C. 1990).

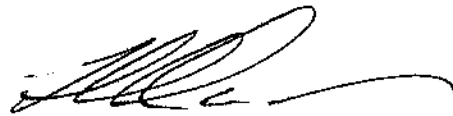
Exemption 4 of the FOIA protects from disclosure two broad categories of information: (1) trade secrets, and (2) financial and/or commercial information. 5 U.S.C. 552(b)(4). Information which meet three criteria are subject to protection from disclosure under Exemption 4 if the following factors exist – if such information is: (1) commercial or financial in nature, and; (2) obtained from a person, and; (3) privileged or confidential. 5 U.S.C. 552(b)(4). For purposes of Exemption 4, the Court of Appeals for the District of Columbia Circuit in Public Citizen Health Research Group v. FDA, 704 F.2d 1280, 1288 (D.C. Cir. 1983) has adopted a "common law" definition of the term "trade secret", defined as "a secret, commercially valuable plan, formula, process, or device that is used for the making, preparing, compounding, or processing of trade commodities and that can be said to be the end product of either innovation or substantial effort." 704 F.2d at 1288. On this basis, the responsive report has been redacted to withhold proprietary company data. Of note, the original report was marked with protected SBIR Data Rights, effective through June 20, 2020. The authority for this exemption is the U.S. Code, Title 5, Section 552(b)(4) and Department of Defense (DoD) Regulation 5400.7-R_AFMAN 33-302, 21 Oct 10, paragraph C3.2.1.5.

Exemption 6 of the FOIA permits the government to withhold all information about individuals in "personnel and medical files and similar files" when the disclosure of such information "would constitute a clearly unwarranted invasion of personal privacy." 5 U.S.C. 552(b)(6). This statute protects from disclosure names, signatures, and other personal information of non-public individuals for privacy purposes. The responsive report has been redacted to withhold private information of certain individuals, as noted. The authority for this exemption is the U.S. Code, Title 5, Section 552(b)(6) and DoD Regulation 5400.7-R_AFMAN 33-302, 21 Oct 10, paragraph C3.2.1.8.

If you decide to appeal this decision, write to the Secretary of the Air Force within 60 calendar days from the date of this letter. Include your reasons for appeal and attach a copy of this letter. Address your letter to:

Secretary of the Air Force
Thru: 377 MSG/SCOF (FOIA Manager)
2051 Wyoming Blvd SE
Kirtland AFB, NM 87117-5607

Sincerely

A handwritten signature in black ink, appearing to read 'Lance K. Kawane', with a long horizontal flourish extending to the right.

LANCE K. KAWANE, Colonel, USAF
Vice Commander

Attachment:
Final Report, AFRL-RV-PS-TR-2015-0090 (partially redacted)

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AUTONOMOUS MISSION MANAGEMENT FOR SATELLITE SYSTEMS

(b)(6)

TRAC Labs Inc.
100 N.E. Loop 410, Suite 520
San Antonio, TX 78216

25 Aug 2015

Final Report

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Space Vehicles Directorate
3550 Aberdeen Ave SE
AIR FORCE MATERIEL COMMAND
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Location of SBIR Data Rights Information: pages i-ii, 1-56

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AFRL-RV-PS-TR-2015-0090 HAS BEEN REVIEWED AND IS APPROVED FOR PUBLICATION IN ACCORDANCE WITH ASSIGNED DISTRIBUTION STATEMENT.



This report is published in the interest of scientific and technical information exchange, and its publication does not constitute the Government's approval or disapproval of its ideas or findings.

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13. SUPPLEMENTARY NOTES					
13. ABSTRACT On-board satellite autonomy is required to deal with threats to a satellite from a variety of sources. On-board autonomy will allow the satellite to respond to threats in a timely manner without relying on ground-based communication. On-board autonomy requires several different capabilities, including planning courses of action in response to threats, executing the courses of action when a threat happens, and evaluating the actions to determine if they alleviated the threat. TRAC Labs and its subcontractor Smart Information Flow Technologies (SIFT) have developed the Highly Autonomous Mission Manager for Event Response (HAMMER) architecture that integrates all of these capabilities. HAMMER includes a long-range task planner, a threat response planner, and a real-time executive all integrated into a tightly coupled system. We have hosted HAMMER on a small-footprint processor chosen by the Air Force Research Laboratory (AFRL) to emulate on-board processor capabilities. We have integrated HAMMER with the AFRL Autonomous Mission Management (AMM) architecture using an AFRL communication package called Adaptive Scalable Plug&play Infrastructure for Responsive Engineering (ASPIRE). (b)(3):10 U.S.C 130, (b)(3):10 U.S.C. § 130, (b)(3):22 U.S.C. § 2778(e) (Arms Export Co (b)(3):10					
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Contractor Address: 100 N.E. Loop 410, Suite 520, San Antonio, TX 78216

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