

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

Form 10-KSB

ANNUAL REPORT UNDER SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended May 31, 2006  
Commission file number 000-33305



**FLIGHT SAFETY TECHNOLOGIES, INC.**

(Name of small business issuer in its charter)

**Nevada**

(State or other jurisdiction of incorporation or organization)

**95-4863690**

(I.R.S. Employer Identification No.)

**28 Cottrell Street, Mystic, Connecticut  
06355**

(Address of principal executive offices and Zip Code)

**(860) 245-0191**

(Issuer's telephone number)

**Securities registered under Section 12(b) of the Exchange Act:**

<b>(Title of class)</b>	<b>(Name of each exchange on which registered)</b>
Common Stock, par value \$0.001 per share	AMEX
Common Stock Purchase Warrants	AMEX

**Securities registered under Section 12(g) of the Exchange Act: None**

Check whether the issuer (1) filed all reports required to be filed by Section 13 or 15(d) of the Exchange Act during the past 12 months (or for such shorter period that the issuer was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Check if there is no disclosure of delinquent filers in response to Item 405 of Regulation S-B is not contained in this form, and no disclosure will be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-KSB or any amendment to this Form 10-KSB.

Registrant's revenues for its most recent fiscal year: \$3,869,962

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).  Yes  No

The aggregate market value of the common stock held by non-affiliates of the registrant, based on the last sale price of \$2.58 per share on September 5, 2006, as reported on the American Stock Exchange, was approximately \$18,152,663. In determining the market value of non-affiliate voting stock, shares of common stock beneficially owned by each executive officer and director have been excluded. This determination of affiliate status is not necessarily a conclusive determination for other purposes.

There were 8,215,210 shares of common stock outstanding as of August 28, 2006.

**DOCUMENTS INCORPORATED BY REFERENCE**

Portions of the registrant's Proxy Statement relating to the registrant's 2006 Annual Meeting of Stockholders are incorporated by reference into Part III of this Report.

Transitional Small Business Disclosure Format (Check one): Yes  ; No

**FLIGHT SAFETY TECHNOLOGIES, INC.  
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FOR THE FISCAL YEAR ENDED MAY 31, 2005**

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Preliminary Note: Cautionary Statement Pursuant to Safe Harbor Provisions of the Private Securities Litigation Reform Act of 1995:

Except for the historical information presented in this document, the matters discussed in this annual report on Form 10-KSB for the fiscal year ending May 31, 2006 or otherwise incorporated by reference into this document, contain "forward-looking statements" (as such term is defined in the Private Securities Litigation Reform Act of 1995). These statements are identified by the use of forward-looking terminology such as "believes", "plans", "intend", "scheduled", "potential", "continue", "estimates", "hopes", "goal", "objective", "expects", "may", "will", "should" or "anticipates" or the negative thereof or other variations thereon or comparable terminology, or by discussions of strategy that involve risks and uncertainties. The safe harbor provisions of Section 21E of the Securities Exchange Act of 1934, as amended, and Section 27A of the Securities Act of 1933, as amended, apply to forward-looking statements made by us. We caution you that no statements contained in this Form 10-KSB should be construed as a guarantee or assurance of future performance or results. These forward-looking statements involve risks and uncertainties, which include risks and uncertainties associated with, among other things, the outcome of pending class action litigation alleging violations of federal securities laws, the outcome of Massachusetts federal district court litigation initiated by Analogic Corporation concerning our TIICM™ technology, whether the government will implement WVAS at all or with the inclusion of a SOCRATES® wake vortex sensor, the impact of competitive products and pricing, limited visibility into future product demand, slower economic growth generally, difficulties inherent in the development of complex technology, new products sufficiency, availability of capital to fund operations, research and development, fluctuations in operating results, and these and other risks are discussed in the "Known Trends, Risks and Uncertainties" in the Management's Discussion and Analysis of Financial Condition and Results of Operations section of this Form 10-KSB. The actual results that we achieve may differ materially from any forward-looking statements due to such risks and uncertainties. These forward-looking statements are based on current expectations, and, except as required by law, we assume no obligation to update this information whether as a result of new information, future events or otherwise. Readers are urged to carefully review and consider the various disclosures made by us in this Form 10-KSB and in our other reports filed with the Securities and Exchange Commission that attempt to advise interested parties of the risks and factors that may affect our business.

SOCRATES®, UNICORN™ and TIICM™ are trademarks of ours. This Form 10-KSB also refers to trademarks and trade names of other companies and organizations.

Unless the context indicates otherwise, all references in this Form 10-KSB to "we," "our," "us," "the company," "FST" and "Flight Safety" refer on a consolidated basis to Flight Safety Technologies, Inc, a Nevada Corporation, or to our former subsidiary, Flight Safety Technologies Operating, Inc., a Delaware corporation (sometimes referred to as "FSTO") that was merged into FST on June 27, 2003.

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## PART I

### Item 1. Description of Business.

#### Overview

We are developing three new technologies designed to enhance aviation safety and efficiency. These technologies include SOCRATES®, UNICORN™, and TIICM™.

SOCRATES® is a technology we are developing into a ground-based laser acoustic sensor to detect and track wake vortices at airports.

UNICORN™ is a technology we are developing into an airborne radar for collision avoidance and ground proximity warning.

TIICM™ is a technology we are developing into a system to protect commercial and military aircraft against terrorist threats from heat seeking missiles.

We are developing SOCRATES® to be a component for possible inclusion in a wake vortex avoidance system, known as WVAS, that the National Aeronautics and Space Administration (NASA) has described. We believe that our SOCRATES® wake vortex sensor, upon

completion and deployment in concert with other components of WVAS, can potentially;

- Improve the safety of aircraft arrivals and departures at airports;
- Safely increase runway landing and takeoff rates;
- Reduce passenger delays; and
- Generate substantial cost savings for the airline industry and other airport users.

An initial "proof of principle" test of our SOCRATES® wake vortex sensor was conducted at JFK International Airport in May 1998. We subsequently completed testing of an expanded and improved SOCRATES® technology, using a NASA Boeing 757 as the source aircraft, at Langley Air Force Base in December 2000. On September 13, 2003, we completed a three-week test of an improved SOCRATES® wake vortex sensor at Denver International Airport. Based upon our analysis of initial data, this test demonstrated a major increase in the capability and reliability of the sensor. Building upon these three tests, we further developed our SOCRATES® wake vortex sensor and tested a 16-beam configuration during September, 2005. Likewise, based on our analysis of initial data, this 2005 test demonstrated a major increase in the capability and reliability of our SOCRATES® wake vortex sensor.

We have conducted research, development, and testing of our SOCRATES® wake vortex sensor in conjunction with Lockheed Martin Corporation pursuant to a ten-year teaming agreement dated May 1, 1997, under which we are the prime contractor. Under the teaming agreement, we

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generally have subcontracted to Lockheed Martin Corporation significant participation in the development and assembly of the hardware components of our SOCRATES® wake vortex sensor, including the low-power laser generators, reflectors, and receivers. Lockheed Martin Corporation personnel also have supported the operation of this equipment during tests of our SOCRATES® wake vortex sensor through various stages of development to date, have been developing software used in analyzing test data and have worked with us in analyzing test data itself. Our payments to Lockheed Martin Corporation under the teaming agreement have averaged approximately \$1,300,000 and 36% of our average annual contract revenue for FY2006 and FY2005. We currently are discussing with Lockheed Martin certain unresolved issues in our relationship and there can be no assurance our relationship with Lockheed Martin Corporation will continue after expiration of the teaming agreement in May 2007.

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We also are developing a collision avoidance and ground proximity warning system for aircraft based on our technology referred to as UNICORN™. On September 13, 2002, we received a frequency assignment from the Federal Communications Commission for experimental purposes and development of UNICORN™ technology which is subject to renewal under certain conditions on September 1, 2006. In August 2003, we signed a contract with Georgia Tech Applied Research Corporation, (GTARC), under which GTARC commenced work on the construction of our UNICORN™ technology antenna elements. We also contracted with Microwave Solutions, Limited, in England to produce the radar electronic modules. An initial proof-of-principle tower based test of UNICORN™ technology antenna elements, one of the major components of a potential UNICORN™ system, was conducted in August of 2005. We are pursuing the possibility of raising research and development funding for UNICORN™ through a tax-advantaged research and development partnership.

During fiscal year 2006, we continued pursuing a third new technology initiative, called TIICM™ (Tactical Integrated Illuminating Countermeasure), for protection of military or commercial aircraft against certain shoulder-launched terrorist missile threats. We believe that TIICM™ technology may be a more cost-effective solution to this problem than competing military systems which are currently being funded by the government. We are working on development of TIICM™ technology with Sanders Design International, a small innovative defense contractor based in New Hampshire. We have incurred costs of approximately \$685,000 for TIICM™ technology research and development thus far, not including business development, legal and government affairs and. Depending on the results of our research, development and testing, we may invest further in TIICM™ technology.

We contracted with Georgia Tech Applied Research Corporation (GTARC) to utilize their government approved simulation model to subject TIICM™ technology to over 100,000 simulated missile attacks on a Boeing 737 aircraft. Preliminary results of this analysis were encouraging. There can be no assurance as to, if, or when, we will be able to successfully develop TIICM™ technology, that our TIICM™ technology efforts will result in any contracts, or revenues, or profits, to us, or that our relationships with other companies to develop TIICM™ technology will be successfully formalized, or that there will be any revenues, or profits, to us.

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Since our inception, our primary source of funding has been four successive contracts with the federal government aggregating approximately \$19.8 million for research, development and testing of our SOCRATES® wake vortex sensor. We have not had any revenues from commercial sales of SOCRATES®, UNICORN™ or TIICM™ technologies, and we may not realize such sales for several years. We have incurred cumulative losses of \$6,553,440 as of May 31, 2006, which we have funded with the proceeds of three equity offerings. We will need additional funds to complete our future research and development of these technologies and may need to raise additional capital for this

purpose. We may consider and execute from time to time strategic investments, acquisitions or other transactions that we believe will benefit us and complement our current operations, technologies, and resources.

## **History**

We are a Nevada corporation that was incorporated in May 2001 under the name of Reel Staff, Inc. to provide staffing services to film, video and television production companies. Prior to a share exchange in September 2002 with the shareholders of Flight Safety Technologies, Inc., (FSTO), a Delaware corporation, our operations were minimal and our revenues were not material. Our organization and limited operations primarily were funded by (i) a contribution of services from shareholders, who in return were issued common stock and (ii) \$12,075 of proceeds from a private placement of our common stock to investors. In October 2001, we registered these shares with the SEC under the Securities Act of 1933 pursuant to an SB-2 Registration Statement, as amended, that we filed with the SEC in order to make our shares of common stock eligible for public trading. Since that time, we have filed periodic reports with the SEC pursuant to the Securities Exchange Act of 1934.

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FSTO, which originally commenced operations in 1997 as a Wyoming corporation, was co-founded by two of our directors, Samuel A. Kovnat and Frank L. Rees. In consideration of his shares, Mr. Rees assigned his SOCRATES® and UNICORN™ patents to FSTO. In consideration of Mr. Kovnat's shares, he contributed intellectual capital and services to FSTO. Advanced Acoustic Concepts, Inc. and Leonard Levie were also founders of FSTO. Advanced Acoustic Concepts, Inc. received shares of common stock in FSTO in consideration of its release of any claims on the UNICORN™ patent contributed by Mr. Rees, and Mr. Levie received his shares in consideration of contributing his business experience, and developing an initial business plan for FSTO. As a result, FSTO owned patents on our SOCRATES® and UNICORN™ technologies.

FSTO received the original contract with the federal government for the research and development of our SOCRATES® technology in connection with its potential application to wake vortices on May 29, 1997. On November 3, 2000, FSTO completed a private placement of preferred stock arranged by Spencer Trask Securities Incorporated which resulted in net proceeds to us of approximately \$1,500,000. In consideration of this placement, Spencer Trask

Intellectual Capital Company, LLC received shares of our common stock and warrants to acquire our preferred stock, as well as placement agency fees and reimbursement of certain costs. All of the preferred shares and warrants for preferred shares were converted, respectively, to common stock and warrants for common stock pursuant to their terms as a result of the share exchange.

In September 2002, we consummated a share exchange with the stockholders of FSTO. The share exchange was facilitated by Dunhill Venture Partners Corp., a Vancouver, British Columbia based firm. Dunhill Venture Partners Corp. also facilitated a private placement of a total of 283,334 shares of our common stock and 283,334 warrants, each for one share of our common stock, to Wakefield Holdings Corp. and Nicholson Group Limited, pursuant to Regulation S promulgated by the SEC, which resulted in aggregate proceeds to us of \$1.7 million. In January 2003, we registered these shares and the warrant shares with the SEC pursuant to an SB-2 Registration Statement. During July and August 2003, the warrants were exercised, and we issued the 283,334 warrant shares, generating \$1.7 million in aggregate proceeds to us. As a result of the share exchange, we discontinued our previous operations and changed our name to Flight Safety Technologies, Inc., FSTO changed its name to Flight Safety Technologies Operating, Inc., FSTO became our subsidiary and stockholders of FSTO acquired approximately 53% of our outstanding common stock. In June 2003, FSTO merged into us, and we now own the patents on and are continuing the development of our SOCRATES® and UNICORN™ technologies.

During February 2004, we sold 1,514,300 units at \$6.00 per unit in a registered underwritten secondary public offering. Each unit consisted of two shares of our common stock and a warrant to purchase one share of our common stock at \$3.30 a share. Separate trading of the common shares and warrants began on March 1, 2004. We received net proceeds from this offering of approximately \$7.6 million.

## **Principal Concepts Under Development and Market Opportunities**

### **SOCRATES® Wake Vortex Sensor**

Whenever an aircraft is in flight, its wings and wing flaps create wake vortices, which are similar to horizontal tornadoes trailing back from the wing tips. If a second aircraft encounters these vortices, even several minutes after the first plane has passed, its pilot's control of the aircraft may be compromised. To address these hazards, the Federal Aviation Administration (FAA) has established requirements for increased spacing between airplanes as they land and take off. The spacing translates into more time in the air, which results in flight delays and increased fuel and flight crew costs. Requirements for even larger spacing for aircraft trailing the new, very large Airbus A380 are anticipated to further exacerbate wake-related flight delays.

Our initial focus for SOCRATES® has been the development of a wake vortex sensor to detect, locate and track wake vortex turbulence, based on the sound radiated by the turbulence. The sensor design includes a low-power laser transmitter and receiver, a laser beam reflector and special optical and electronic components to translate changes in laser transmissions caused by their interaction with sound radiation from the vortices, and determine the presence and location of wake vortex turbulence. While our present focus is on air turbulence created by aircraft wakes, we believe that with future research and development our SOCRATES® technology may also enable the detection of various hazardous atmospheric phenomena, such as wind shear and microbursts.

In September 2003, we completed a three-week test of improved SOCRATES® technology that operated with four laser beam sensors at Denver International Airport. This test was part of a NASA-sponsored wake acoustics test and is part of NASA's continuing efforts to improve aviation safety and capacity. A principal purpose of this NASA-sponsored test was to acquire adequate field data using carefully calibrated microphone arrays to confirm the scientific basis for the use of sound in detecting, tracking, and characterizing wake vortices created by arriving aircraft. Our SOCRATES® wake vortex sensor recorded acoustic emissions generated by wake vortices from a variety of aircraft, including Boeing 737 and 757 aircraft, Airbus A319 and A320 aircraft, and even smaller regional jets. The system recorded these emissions directly above the SOCRATES® sensor array from wake vortices approximately 500 feet above ground level. We performed a preliminary analysis of the results and provided a "quick-look" report to NASA and Volpe in October 2003. Our final report, in summary, showed an 81% detection rate of wake vortices by our SOCRATES® sensor array. The results were from three weeks of collected data and approximately 750 flyover data sets.

Following the 2003 Denver test, we received government funding to upgrade and expand our SOCRATES® wake vortex sensor from a 4-beam to a 16-beam system and test this expanded sensor in September of 2005. Our goal in the test of our expanded sensor was to detect and track wake vortices at ranges up to 1,100 meters and altitudes up to 250 meters above the sensor site. Our preliminary analysis from this September 2005 Denver International Airport test leads us to conclude our expectations for the SOCRATES® wake vortex sensor capabilities are justified.

Based on testing to date, we believe our SOCRATES® technology has the potential to provide sensor information for a ground-based wake vortex avoidance system, or WVAS, to detect dangerous air turbulence from wake vortices in the vicinity of airports. NASA and the FAA have described the integration of other components of WVAS including advanced weather sensors, prediction software for both the vortex movement and the persistence of existing wind conditions, adaptive spacing procedures and communication links between the sensors and the air traffic control facilities. We plan to produce an emulation of an operational SOCRATES® wake vortex sensor working within a conceptual WVAS at Denver International Airport in late 2006 or early 2007.

Upon successful completion of further development, testing and FAA approval, our sensor could become a component in a WVAS to be used by air traffic controllers to establish safe separation between either arriving or departing aircraft. In furthering this development, we plan to integrate the sensor with other potential components of a WVAS, and develop operating protocols for use of our sensor with other WVAS components by air traffic controllers and pilots. As described by the FAA, such components may include advanced weather sensors, prediction software for both the vortex movement and the persistence of existing wind conditions, adaptive spacing procedures and communication links between the sensors and the air traffic control facilities. Some of these components are under development and the integration process will be technically challenging.

In June 2003, the FAA approved a long-term mission needs statement and related investment plan that contemplates expenditures by FAA and NASA of \$206 million during the period running from U.S. fiscal year 2003 through 2010 on wake vortex detection research and development. The FAA investment plan includes deployment of a prototype WVAS and culminates in development of wake turbulence capability at selected airports and integration with controller tools. The mission needs statement may not be approved at all necessary levels of the federal government, and the federal government may not provide the funding required to complete the mission needs statement. This funding must be annually requested by the FAA, authorized and approved by Congress, and approved by the President. There is no assurance as to what amount of contract funding, if any, we will receive in connection with the mission needs statement to complete the research, development, and testing of our SOCRATES® wake vortex sensor for inclusion in a WVAS. To date, the FAA has not requested Congress to appropriate funds for this

purpose. The FAA has assigned an overall moderate to high risk rating to the implementation of this program due to technical unknowns and risks associated with getting controllers and pilots to accept a ground or flight deck based system.

We believe the FAA's substantial investment in addressing the problems associated with wake vortex turbulence and its issuance of the long-term mission needs statement for wake turbulence indicate its awareness that there is a growing need in the aviation industry for technologies to combat the wake vortex problem. There are many other participants and constituencies that could have an interest in the deployment and financing of our sensor as part of a WVAS. For example, the International Federation of Airline Pilots Associations, (IFALPA), which represents over 100,000 pilots worldwide and is recognized as the global voice of pilots on both labor and aviation safety issues, officially states a requirement for vortex monitoring in any system designed to safely reduce the current wake vortex-related spacing requirements. The busier airports, which are typically owned and operated by state and local authorities, also have a natural interest in increasing airport safety and efficiency. Airlines also could benefit from installation of a WVAS, which we believe could include our SOCRATES® wake vortex sensor, through increased safety and efficiencies and a reduction in fuel costs attributable to delays.

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WVAS still faces technical hurdles and, furthermore, must be accepted by a variety of constituencies involved in the National Airspace System, including, but not limited to, air traffic controllers and pilots. We can make no assurance whether or when the FAA will implement WVAS, either with or without our SOCRATES® wake vortex sensor. At this time, we do not know if we can successfully complete development of our SOCRATES® wake vortex sensor, if the federal government will provide the funding required to complete our plan, if we will successfully implement the plan and testing, or if the government will implement WVAS at all or with the inclusion of our SOCRATES® wake vortex sensor.

#### UNICORN™ Technology

We also have pursued development of an airborne collision and ground proximity warning system we refer to as UNICORN™. As of May 31, 2006, our cumulative research and development expenditure on UNICORN™ was approximately \$1,280,000. During August, 2005 we tested a UNICORN™ prototype antenna in a proof-of-principle test. The data collected from this test is currently being analyzed and we are considering how best to proceed with plans for the eventual commercialization of UNICORN™.

Our original plan for UNICORN™ technology was to provide a low-cost, combined, collision alerting and ground proximity warning capability for general aviation aircraft, including private, business and smaller regional and commercial aircraft. Since fiscal year ended May 31, 2004, we also have been investigating the potential application of our UNICORN™-based "see and be seen" collision avoidance technology for unmanned air vehicles, (UAVs), including military, other government, and commercial operations. Accelerating government requirements for UAV applications in the U.S. domestic airspace, together with higher than anticipated development costs, production cost estimates based on information we obtained from ongoing product development that significantly exceed our initial projections, and increasing competition in the general aviation market for UNICORN™-like products, have caused us to pursue the utilization of a tax-advantaged research and development partnership for our UNICORN™ technology.

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Our UNICORN™ technology is based on a unique implementation of radar technology in an airborne system to detect and track aircraft and detect the ground below and ahead of the airplane. Although further research, development and testing are required, we believe that fixed element antennas on the top and bottom of the aircraft could provide full spherical coverage for detection of collision threats up to four nautical miles away. UNICORN™ would alert pilots to a potential collision threat by both audible and visual means, and the locations of the threat aircraft would be shown on either an existing or dedicated cockpit display.

Following a recommendation of support from the FAA in September 2002, the Federal Communication Commission (FCC) issued us an Experimental Radio Station License facilitating UNICORN™ antenna development on either of two frequencies: 5145 MHz in the FAA aviation band and 3650-3700 MHz in the non-aviation band. These frequencies may be used at any of three designated locations in the eastern U.S. until September 1, 2006. We have since filed for an extension of the approval by application and we have undertaken the steps necessary to expand our testing to an airborne test range and to use additional frequencies in the airborne radar band.

We acquired the UNICORN™ technology from Advanced Acoustic Concepts, Inc., (AAC), in January 2000 in exchange for shares of our common stock. We have agreed to pay AAC a lump sum payment of \$150,000 after we receive revenues from sales of UNICORN™ products of \$1,000,000. In addition, we will pay to AAC a continuing royalty of 3% of all net sales of UNICORN™ products thereafter.

We have initiated very preliminary discussions with the federal government about the possible use of UNICORN™ technology on Unmanned Air Vehicles, or UAV's, to perform the "see and avoid" function. There is increasing interest on the part of civil and military authorities in operating UAVs in parts of the National Airspace System other than military restricted areas. These operations could not take place unless the collision safety issue is addressed. We believe that our UNICORN™ technology may have the potential to meet this emerging need.

A UNICORN™-based UAV collision avoidance system would contain an antenna and computerized electronics that are similar in concept to those used in the UNICORN™ general aviation products we have been developing. However, the audio alert and visual display would be replaced by a computerized interface with the onboard flight control system of the UAV. This interface would override the flight control system to cause the UAV to take evasive maneuvers required to avoid collision with other aircraft and/or ground-based objects such as terrain and obstructions.

#### TIICM™ Tactical Integrated Illumination Countermeasure Technology

TIICM™ is intended to provide a low-cost, highly effective shield to protect airliners against the threat of some terrorist missiles. TIICM™ represents a new concept that provides special infrared sources mounted on wings, tail sections and along the bottom of the aircraft fuselage sections, together with particular sequencing of these illumination sources to both attract certain missile seeker elements and "spooft" certain threat missile guidance systems.

We are developing TIICM™ in conjunction with Sanders Design International (SDI), a New Hampshire company. In April, 2004, we executed a 10-year Teaming Agreement with SDI under which we would be the prime contractor with respect to development of counter-technologies for certain anti-aircraft heat seeking shoulder fired missiles. Under additional arrangements with SDI, we filed an application for and would share with SDI ownership of the

TIICM™ patent if the patent application results in an award of a new patent. A prior patent on an earlier technology was awarded to SDI in February, 2004, which is the subject of a 2003 license agreement between SDI and Analogic Corporation, a company located in Peabody, Massachusetts. This licensing agreement may limit our ability to earn revenue from TIICM™. The legal significance of the Analogic license agreement as it relates to our Teaming Agreement with SDI and TIICM™ patent application is the subject of a lawsuit pending in federal court in Boston, Massachusetts which asserts, among other things, that FST and SDI infringed Analogic's rights under the 2003 license agreement by entering the 2004 Teaming Agreement.

There can be no assurance that TIICM™ will ultimately be successful in achieving a cost-benefit advantage against more well established and mature competing technologies, or that we will receive any significant revenues or profits from TIICM™.

#### **Sales and Marketing**

##### SOCRATES® Wake Vortex Sensor

If and when we successfully complete research, development, and testing of our SOCRATES® wake vortex sensor and the WVAS, our goal is to obtain FAA approval of and support for the use of our SOCRATES® wake vortex sensor in a WVAS implementation due to the growing demand for cost-effective ways to improve airport safety and capacity and the advantages of our technology over existing alternatives. Our strategies for selling SOCRATES®-based products for use in airports will include:

- Closely coordinating with the FAA, which would acquire and deploy the WVAS, including SOCRATES® technology, at United States airports,
- Assisting airports to apply for the allocation of airport improvement grants to acquire WVAS,
- Targeting the busiest U.S. airports, followed by airports in other countries, with a campaign that includes informational seminars and direct marketing,



☐ Publicizing the advantages of our SOCRATES® wake vortex sensor in promoting advanced air safety and airport productivity to members of the U.S. Congress, aircraft manufacturers, commercial airlines, and air travel trade industry groups, and

☐ Soliciting FAA funding for the establishment of "beta sites" for the installation of SOCRATES® at select U.S. airports (Anchorage, Miami, Louisville, Memphis and Dallas Fort Worth).

### UNICORN™ Airborne Radar Technology

During the past two years, we have become increasingly aware of an emerging requirement to integrate collision avoidance capability into the flight control systems of unmanned aerial vehicles (referred to by the government as "see-and-avoid" for UAV's). We believe such a technology may in the future be able to penetrate the aviation industry when integrated with cooperative surveillance techniques.

The present market for UAVs is almost entirely military and very limited and the potential of an expanded market is unclear. However, the potential uses of UAV's over the next 20-30 years could include:

- ☐ Traditional military surveillance
- ☐ Customs/Border patrol surveillance
- ☐ Harbor/port surveillance
- ☐ Regional and local law enforcement
- ☐ Fire fighting
- ☐ Crop dusting

It has been estimated as many as 20,000 UAV's may be employed in the US domestic airspace over the next 20 years. If, as, and when we can complete the development and flight testing of a UAV UNICORN product, we intend to market UNICORN to:

- ☐ Government - Military and Department of Homeland Security users
- ☐ UAV Manufacturers
- ☐ Commercial UAV users

There can be no assurance that we will successfully complete the development of UNICORN, integrate UNICORN into UAV systems, or gain any market acceptance for UNICORN as a UAV or general aviation product.

### TIICM™ Sales and Marketing

If, as, and when, we can successfully complete sufficient research, development and testing and gain government approval of TIICM™ technology, we would anticipate initiating a market strategy to include:

- ☐ Working closely with U.S. government officials to gain their support for marketing TIICM™ to the U.S. airline fleet which consists currently of about 6,800 aircraft.
- ☐ Targeting an initial market of the smaller commercial aircraft currently employed, and the US airline companies that operate them.

- ☐ Working with the aircraft manufacturers such as Boeing and Airbus Industries.
- ☐ Working with the Air Transport Association (ATA).
- ☐ Working with the U.S. Congress to provide appropriation funding for TIICM™.
- ☐ Extending the potential market to include international airliners.
- ☐ Extending the potential applicability of TIICM™ for use in military aircraft uses.

There can be no assurance that TIICM™ will achieve any market acceptance in any of these uses.

## Competition

### SOCRATES® Wake Vortex Sensor

The aviation and airport safety business is very competitive. We expect competition in hazardous weather applications and wake vortex detection and warning sensors and systems to intensify as air travel and airport congestion continue to increase worldwide, and as public scrutiny of aviation safety heightens. Although we are not aware of any other company or organization developing technologies such as ours, other alternatives exist and it is possible that others could develop or improve their systems to achieve similar results. We may face competition from established companies in the aviation systems marketplace, which are currently providing or developing technologies and products such as Low Level Windshear Alert Systems, airborne and ground-based Doppler Radar, Lidar, Laser Doppler Velocimetry, Terminal Doppler Weather Radar, and the Minix Winglet. These companies include Allied Signal/Honeywell, Coherent Technologies, Northrop Equipment Corp., Raytheon Corp., Christian Hugues and others. The chart below describes these alternative ground-based technologies.

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<u>Technology</u>	<u>Description</u>	<u>Limitations</u>	<u>Mfr.</u>	<u>Status</u>
Low Level Windshear Alert Systems ("LLWAS")	<ul style="list-style-type: none"><li>□ Detects windshears &amp; microbursts 50 - 150 feet above ground</li><li>□ Alerts triggered when wind speeds are not consistent at multiple wind sensors around airport and runways</li></ul>	<ul style="list-style-type: none"><li>□ Limited range</li><li>□ Can be unreliable</li><li>□ Early warning insufficient since only detects windshear in immediate vicinity</li></ul>	Raytheon	Commercially Available

Doppler Radar	<ul style="list-style-type: none"> <li>□ Airborne and ground-based systems</li> <li>□ Detect speed and location of disturbances by reflecting electromagnetic waves off atmospheric particles</li> </ul>	<ul style="list-style-type: none"> <li>□ Often misses small phenomena</li> <li>□ Limited detection range</li> <li>□ Need airborne rain or ice crystals to reflect radar</li> <li>□ Insufficient early warning</li> </ul>	Raytheon	Limited Installations
Lidar ("Light detection and ranging")	<ul style="list-style-type: none"> <li>□ Airborne and ground-based systems</li> <li>□ Detect disturbances by measuring the reflection and scattering of a powerful infrared pulse</li> <li>□ Greater accuracy than radar</li> </ul>	<ul style="list-style-type: none"> <li>□ Does not work in clouds</li> <li>□ Insufficient early warning</li> </ul>	Coherent Technologies, Inc.	Commercially Available
Laser Doppler Velocimetry	<ul style="list-style-type: none"> <li>□ Airborne and ground-based systems</li> <li>□ Measures the speed and location of disturbances by analyzing the frequencies of two laser beams reflected off atmospheric particles</li> <li>□ Greater range and accuracy than radar</li> </ul>	<ul style="list-style-type: none"> <li>□ Does not work in clouds</li> <li>□ Insufficient early warning</li> </ul>	None	Research and Development
Terminal Doppler Weather Radar ("TDWR")	<ul style="list-style-type: none"> <li>□ Ground-based system</li> <li>□ Detects hazardous atmospheric conditions in the airport terminal area</li> <li>□ Detects changing winds to give early warning of hazardous conditions</li> <li>□ Highly reliable and accurate</li> </ul>	<ul style="list-style-type: none"> <li>□ Requires tall towers to be installed 8-12 miles away from airport, which are expensive and often encounter resistance from residential communities</li> <li>□ Does not capture small phenomena like wake vortices</li> </ul>	Raytheon	Limited Installations
Minix Winglet	<ul style="list-style-type: none"> <li>□ Solid, light wing tip attachment made of Kevlar and carbon</li> <li>□ Eliminates vortex pressure around wings</li> <li>□ Increases speed</li> <li>□ Reduces fuel consumption</li> <li>□ Allows aircraft to carry more weight</li> </ul>	<ul style="list-style-type: none"> <li>□ May not address the dominant wake vortices created by the outer tip of the main flap</li> <li>□ May adversely affect the lift-to-drag ratio of the aircraft</li> <li>□ May not work as advertised</li> </ul>	None	Research and Development

We believe our SOCRATES® wake vortex sensor may offer many advantages over the products and technologies provided by these competitors, although further research, development, and testing are needed to complete our sensor and make it operational. We believe that if, as and when our SOCRATES® wake vortex sensor is fully developed and operational, these advantages may position us to penetrate the market, particularly for a ground-based wake vortex sensor. We believe the advantages of a wake vortex sensor based on our SOCRATES® technology will include:

- Greater reliability in foggy or cloudy weather conditions that often impede lidar-based systems;
- Superior accuracy, even for small disturbances other systems often miss;
- Earlier warning of potential hazards;
- No need for large atmospheric particles to detect disturbances; and
- Greater cost-effectiveness and easier implementation.

#### UNICORN™ Technology

Competition for the "see and avoid" function in the UAV community consists of optical and radar systems. An optical system under development by Defense Research Associates (DRA) provides fairly accurate azimuth and elevation to the target during visual weather conditions but little or no range information. The field of view is also limited to plus or minus 110 degrees in azimuth and plus or minus 20 degrees in elevation. A 35 GHz radar system tested on a UAV by the Navy is quite limited in range and also has the limited field of view.

We believe that, if and when, successfully developed and tested, our UNICORN™-based products may offer potential advantages over currently available alternatives in the UAV and, later, the general aviation market for small aircraft. Current competition in the general aviation market includes the following:

Technology	Description	Limitations	Mfr.	Status
Transponder	9900BX Traffic Advisory System	<input type="checkbox"/> Only detects transponders; <input type="checkbox"/> Relatively expensive	Ryan	In production
Transponder	Monroy ATD-200	<input type="checkbox"/> Only detects transponders; <input type="checkbox"/> Does not provide time to collision	Monroy	In production
Transponder	L3-Goodrich Skywatch Traffic Advisory System	<input type="checkbox"/> Only detects transponders	Goodrich	In production
TCAS	Traffic Alert & Collision Avoidance System	<input type="checkbox"/> Only detects transponders; <input type="checkbox"/> Relatively expensive	Rockwell and Honeywell	In production
Transponder	KTA 970 TCAS I	<input type="checkbox"/> Only detects transponders <input type="checkbox"/> Relatively expensive	Honeywell	In production
Transponder and terrain data base	KMH 980 TCAS/EGPWS	<input type="checkbox"/> Only detects transponders <input type="checkbox"/> Uses terrain database <input type="checkbox"/> Relatively expensive	Honeywell	In production

### General

Our ability to compete successfully in the market for air safety products will depend on our success in:

- Completing on a timely basis the research and development, prototyping, testing, and production of our SOCRATES®, UNICORN™-based, and TIICM™ products;
- Obtaining FAA approval of our SOCRATES® wake vortex sensor and UNICORN™ and TIICM™ products;
- Marketing and selling our products to airports, the FAA, airlines and manufacturers and owners of general aviation aircraft;
- Promoting awareness and acceptance of our products among members of the U.S. Congress and other government officials, aircraft manufacturers, commercial airlines, and air travel industry trade groups; and
- Developing and/or acquiring additional technologies and products to meet the changing needs of the aviation industry.

Many of our potential competitors have longer operating histories, greater name and brand recognition and substantially greater financial, technical, marketing, management, service, support, and other resources than we do. Therefore, they may be better able to respond than we can to new or changing requirements, technologies, or standards. We may not be able to compete successfully against current or future competitors, and the competitive pressures may materially and adversely affect our business, operating results and financial condition.

### **Government Funding**

A substantial amount of our time and expenditures have been spent on the research, development and testing of our SOCRATES® wake vortex sensor. A substantial portion of our funding for research and development contracts of our SOCRATES® wake vortex sensor has and is expected to continue to come from appropriations of the federal government. These appropriations, from which we have been allocated an aggregate of approximately \$19.8 million in contract funding to date, have been earmarked by Congress for the procuring federal agencies, FAA and NASA, for funding, monitoring and administering the development of SOCRATES® technology to enhance airport and airline safety.

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For U.S. fiscal year 2004, an additional \$5 million NASA appropriation specifically for continued work on project SOCRATES® was enacted into law. In November, 2004 our sponsoring agencies released \$3,237,310 of these funds and approved an extension of our contract, statements of work, and appropriate work orders which included a major airport test of the expanded 16 beam SOCRATES® wake vortex sensor at Denver International Airport (DIA), conducted in September 2005.

For U.S. fiscal year 2005, the government appropriated \$5 million to NASA specifically for additional research and development work on SOCRATES® technology and data analysis of the test at DIA of the 16 beam SOCRATES® system. For U.S. fiscal year 2006, the government did not appropriate earmarked funds for SOCRATES® technology. We anticipate further funding, of which there can be no assurance, will occur at the direction of the FAA as part of its budgetary process.

On December 12, 2003, Public Law 108-176 was passed authorizing FAA funding for U.S. fiscal years 2004 through 2007. The new law, designated "Vision 100 - Century of Aviation Reauthorization Act," authorizes the FAA to spend from its \$2 billion Air Navigation Facilities & Equipment annual budget such funds as may be necessary in each of the next four U.S. fiscal years for the development and analysis of a wake vortex advisory system (WVAS). We are aiming to complete development of our SOCRATES® wake vortex sensor for inclusion in any such system which NASA is currently developing. The government must successfully test and accept WVAS and our SOCRATES® wake vortex sensor for integration into any such system. Funds can only be made available for each year by appropriation legislation and pursuant to contract and work orders between us and the procuring federal agency. To date, the FAA has not requested Congress to appropriate funds for this purpose. There is no assurance as to whether or when these funds will be appropriated, how these funds will be allocated among us, participating agencies, and other parties presently or in the future involved in development of the wake vortex advisory system, or what portion of these funds, if any, we ultimately may receive.

Upon successful completion of research and development of our SOCRATES® wake vortex sensor, we would also depend upon the FAA for procurement and installation of WVAS including our sensor in U.S. airports. In June 2003, the FAA approved a long-term mission needs statement that contemplates expenditures by FAA and NASA of \$206 million during the period running from U.S. fiscal year 2003 through 2010 on wake vortex detection research and development, including deployment of a prototype WVAS and culminating in development of wake turbulence capability at selected airports and integration with controller tools. The mission needs statement may not be approved at all necessary levels of the federal government and the federal government may not provide the funding required to complete the mission needs statement, which must be annually requested by the FAA, authorized and approved by Congress, and approved by the President. There is no assurance as to what amount of contract funding, if any, we will receive in connection with the mission needs statement. To date, the FAA has not requested Congress to authorize or appropriate these funds. The FAA has assigned an overall moderate to high risk rating to this program due to technical unknowns and risks associated with getting controllers and pilots to accept a ground or flight deck, or both, based system.

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The U.S. government may terminate our government contract at any time if it determines such termination is in the best interests of the government or may terminate, reduce or modify it because of budgetary constraints or any change in the government's requirements. Furthermore, the federal government may hold, reduce or eliminate future funding for research and development of our SOCRATES® wake vortex sensor or WVAS as a result of a reduction in support or opposition from supervising agencies, changes in budgetary priorities or decisions to fund competing systems or components of systems. If this occurs, it will reduce our resources available for research and development of our proprietary technologies, new products or enhancements to our SOCRATES®, UNICORN™ or TIICM™ technologies and to market our products. Reduction of funding from the federal government could delay achievement of or increases in profitability, create a substantial strain on our liquidity, resources, and product development, and have a material adverse effect on the progress of our research and development and our financial condition.

### **Our Intellectual Property and Technology**

#### SOCRATES® Technology

We intend to rely on a combination of patent protection, trademark protection, trade secret protection, copyright protection, and confidentiality agreements to protect our intellectual property rights. We have received a United States patent relating to our SOCRATES® technology (US Patent No. 6,034,760 issued on March 7, 2000). We have received patents on the SOCRATES® technology in Australia, Canada, China, Democratic Peoples Republic of Korea, Israel, New Zealand and Norway. We have corresponding patent applications, based upon the United States application, for a patent on our SOCRATES® technology pending in Japan, Saudi Arabia, Turkey, and the European Patent Organization. There can be no assurance any patent will issue from these pending applications. We also may apply to federally register various copyrights in our software and documentation with the United States Copyright Office and abroad.

Our SOCRATES® technology patent, includes two fundamental claims: a method claim and an apparatus claim. The method claim covers a laser device that produces an optical beam, directs that beam into the atmosphere and measures the effect of sound waves on the beam as an indicator of hazardous weather conditions that have produced those sound waves in the atmosphere. The apparatus claim covers the apparatus for performing the method claim. Both of these claims cover systems that are mounted either directly on the front of an aircraft or on the ground adjacent to a runway.

We have taken certain steps to preserve our rights in our SOCRATES®-related technologies under our contracts with the federal government. However, as under any government funded research and development contract, the Federal Acquisition Regulations provide that the federal government may have paid-up rights to use our SOCRATES®-related technologies under certain circumstances.

On April 26, 2004, in conjunction with the renewal of a nondisclosure agreement, we were advised by Lockheed Martin Corporation that it owns a certain patent which predates our SOCRATES® patent and, according to Lockheed Martin Corporation, contains some intellectual property related to our SOCRATES® patent. We are conducting further discussions with Lockheed Martin Corporation on this issue and other unresolved issues. We cannot predict or provide any assurance on the outcome of these discussions and whether any outcome will be satisfactory to us.

Also, our SOCRATES® trademark is now registered on the Principal Register, having Registration No. 2,967,386.

#### UNICORN™ Technology

We also have received a United States patent relating to our UNICORN™ technology (US Patent No. 6,211,808 issued on April 3, 2001 and re-issued as U.S. Patent No. RE 39,053). We have received patents on the UNICORN™ technology in Australia, Canada, and New Zealand. We have corresponding patent applications, based upon the United States application, for a patent on our UNICORN™ technology pending in Japan and the European Patent Organization. However, there can be no assurance any patent will result from these pending applications. We also may apply to federally register various copyrights in our software and documentation with the United States Copyright Office and abroad.

Our UNICORN™ technology patent includes claims which cover a collision avoidance airborne radar system. The invention incorporates a unique antenna design which provides three-dimensional surveillance to provide collision warning as well as ground proximity and terrain avoidance alerting to the pilot.

It selectively uses each microwave sector as a way to determine the direction of any received radar echo from another close-by aircraft or the ground below or terrain ahead that poses a potential threat within that coverage. Controlling the integration of these functions permits detection of several almost simultaneous potential threat encounters. The claims cover any UNICORN™-based system whose antenna may be fabricated in an equivalent way and subdivided for low drag-profile mounting above and below the fuselage of an aircraft. The UNICORN™ system is fully independent, in that, unlike most other collision avoidance systems in current use, it does not require that other aircraft in the vicinity have a cooperative warning system such as a transponder beacon.

Also, we re-applied for federal protection of our UNICORN™ trademark in the United States in August, 2006.

#### TIICM™ Technology

We filed a Patent Application with the United States Patent and Trademark Office in September, 2005 for TIICM™ (Tactical Integrated Illuminating Countermeasure) technology in conjunction with Sanders Design International (SDI), (a New Hampshire company). A corresponding Patent Cooperation Treaty (PCT) application was filed in January 2006. TIICM™ is intended to provide a low-cost, highly effective shield to protect airliners against the threat of certain terrorist missiles. Under our arrangement with SDI, we will share ownership of the TIICM™ patent, if the application results in a new patent award. There can be no assurance that any patent will result from our TIICM™ filing. We filed an application to obtain a federal trademark on TIICM™ in July, 2005. The application was approved but is being opposed by a party which claims it holds similar marks and it is too early to assess the outcome.

#### **Government Approval and Regulations**

The airport and airline industry is subject to extensive government oversight and regulation. To introduce a product for commercial sale, we must successfully complete research, development, and testing of the product and obtain necessary governmental approvals for installation of our SOCRATES® wake vortex sensors in airports or installation of UNICORN™ technology in small aircraft. For our SOCRATES® wake vortex sensors, the FAA must commission WVAS for use in the National Airspace System. As UNICORN™ and TIICM™ technologies are airborne systems, they must be FAA certified for use on aircraft. Any factor that delays or adversely affects this process, including delays in development or difficulty in obtaining federal government approval of the product, could adversely affect our business, financial condition, or results of operations.

Additionally, as a result of receiving funding from the federal government, our business and operations are subject to numerous government laws and regulations. In the near term, and for so long as we receive funding from the federal government, we will be subject to many procurement and accounting rules and regulations of the federal government. We are also subject to periodic audits by the Defense Contract Audit Agency. To date, we have completed seven audits and reports have been issued to our government customer which have stated that we are performing in full accordance with Federal Acquisitions Regulations.

### **Employees**

As of May 31, 2006, we had nine full-time and two part-time employees. Our employees are not members of a union, and we are not aware of any efforts on their part to form or join a union. We believe that our relationship with our employees is good.

### **Item 2. Description of Property.**

Our primary offices, located in Mystic, Connecticut, are leased on an annual basis at a monthly rate of \$2,750. We also utilize satellite office space that we lease or use on a month to month basis pursuant to the following arrangements with the following parties: (i) Baltimore, Maryland leased from our executive vice president and director, Frank L. Rees, at \$500 per month; (ii) Austin, Texas space provided without charge by our president and director, William B. Cotton; and (iii) North Kingston, Rhode Island leased from The Meadows Professional Office Park on an annual basis at a monthly rate of \$1,200; and (iv) Lancaster, Pennsylvania space provided without charge by our Senior Engineer Robert L. Cooperman. We believe that our facilities are adequate to satisfy our projected requirements and that additional space will be available if needed.

### **Item 3. Legal Proceedings.**

Several lawsuits have been filed in the United States District Court for the District of Connecticut, by purchasers of our common stock naming us, certain of our executive officers and directors, and certain underwriters, who sold shares of our common stock to the public, as defendants. The suits assert claims under Section 10b of the Securities Exchange Act of 1934 and Rule 10b-5 promulgated thereunder and under Section 11 of the Securities Act of 1933 and breach of fiduciary duty. The complaints allege, among other things, that we failed to disclose material details from a report circulated by Volpe in October 2001, which generally concerned the timetable and our prospects for achieving operational viability of the SOCRATES® wake vortex sensor. The plaintiffs seek unspecified damages on behalf of a purported class of purchasers of our securities.

On June 28, 2006, we received notice that Analogic Corporation filed a lawsuit against us and our CEO and Sanders Design International (SDI) and its principals over perceived contractual interference relating to development of TIICM™ countermanpads technology on which SDI and we have filed a joint patent application. Analogic's lawsuit, among other things, asserts that we and SDI infringed Analogic's rights under a 2003 license agreement between SDI and Analogic by entering into a teaming agreement in 2004 and filing the joint patent application on TIICM™ in 2005.

We firmly believe that the claims contained in these lawsuits are without merit and intend to conduct a vigorous defense in these matters. These lawsuits could be time-consuming and costly and could divert the attention of our management. These lawsuits or any future lawsuits filed against us could harm our business.

As previously reported, we learned in December 2003 that the United States Securities and Exchange Commission staff was conducting an informal investigation which appeared to be looking into certain analyst reports about us, and our press releases. The Commission staff did not assert that we acted improperly or illegally and we voluntarily cooperated fully with the staff's informal investigation. We believe that we acted properly and legally with respect to these analyst reports and our press releases. On August 22, 2006, we received notification from the Commission that it has terminated its informal investigation of us with no enforcement action recommended.

**Item 4. Submission of Matters to a Vote of Security Holders.**

None.

**PART II**

**Item 5. Market for Common Equity and Related Stockholder Matters.**

**Market Information**

On January 30, 2004, our common stock became eligible to trade on the American Stock Exchange, or AMEX, under the symbol FLT. As of August 18, 2006, we had 8,215,210 shares of common stock outstanding, of which 6,469,972 shares trade on the AMEX. The following chart shows the high and low sales price of our common stock for each of our fiscal quarters as quoted on the AMEX:

<b>Fiscal Quarter</b>	<b>High</b>	<b>Low</b>
8/31/04	\$1.82	\$1.00
11/30/04	\$1.88	\$1.31
2/28/05	\$1.74	\$1.12
5/31/05	\$2.09	\$1.30
8/31/05	\$1.64	\$1.21
11/30/05	\$3.90	\$1.35
2/28/06	\$3.19	\$2.00
5/31/06	\$2.88	\$2.05

As of May 31, 2006, we had 93 record holders of our common stock, as reflected on the books of our transfer agent. A significant number of shares were held in street name and, as such, we believe that the actual number of beneficial owners is significantly higher.

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**Equity Compensation Plans**

We adopted the 2005 Stock Incentive Plan in October 2005. Under the terms of the 2005 Plan, all of our employees, directors, consultants and advisors are eligible to be granted options, restricted stock awards, or other stock-based awards. Under the 2005 Plan, a total of 1,500,000 shares of our common stock are available for issuance, of which 246,600 shares remain available for future awards as of May 31, 2006. In addition, the shareholder vote that approved the 2005 Plan also approved previous awards totaling 570,000 shares of our common stock.

The Compensation Committee of our board of directors, in its discretion, selects the person(s) to whom stock based awards may be granted, the time or times at which such awards shall be granted, the number of shares subject to each such grant, and the term of the award. The exercise price of options granted under the 2005 Plan is determined by the Committee at the time the options are granted but may not be less than 100% of the fair market value of the common stock on the date such option is granted; provided, however, the exercise price of an incentive stock option granted to a 10% or greater shareholder may not be less than 110% of the fair market value of the common stock on the date such option is granted.

Options granted under the 2005 Plan expire no later than ten (10) years from the date of grant; provided that in the case of an incentive stock option granted to a 10% shareholder, the term of the option may be no more than five (5) years from the date of grant. No option may be exercised after the expiration of its term.



The table below provides information relating to our equity compensation plans as of May 31, 2006.

<u>Plan category</u>	<u>Number of securities to be issued upon exercise of outstanding options, warrants and rights</u>	<u>Weighted-average price of outstanding options, warrants and rights</u>	<u>Number of securities remaining available for future issuance under compensation plans (excluding securities reflected in first column)</u>
Equity compensation plans approved by shareholders	1,823,600	\$3.50	246,400
Equity compensation plans not approved by security holders	62,500	6.00	(a)

(a) The equity compensation plan not approved by shareholders is comprised of individual common stock option agreements issued to directors, prior to the adoption of the Company's current stock option plan. The common stock options vest between one and three years of the date of issue and expire within three years of the vesting date. The exercise prices of the current outstanding options are \$6.00 per share.

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<u>Options issued to:</u>	<u>Number of options</u>	<u>Exercise price</u>	<u>Vesting dates</u>	<u>Expiration dates</u>
Directors	<u>62,500</u>	\$6.00	2003-2005	2006-2008
Total issued	<u>62,500</u>			

## Dividends

We have never declared or paid any cash dividends on our common stock. For the foreseeable future, we intend to retain any earnings to finance the development and expansion of our business, and we do not anticipate paying any cash dividends on our common stock. Any future determination to pay dividends will be at the discretion of our Board of Directors and will be dependent upon then existing conditions, including our financial condition and results of operations, capital requirements, contractual restrictions, business prospects, and other factors that our Board of Directors considers relevant.

## Recent Sales of Unregistered Securities

There have been no sales of unregistered securities within the last three years which would be required to be disclosed pursuant to Item 701 of Regulation S-B except the following:

On September 1, 2002, as part of a share exchange with FSTO, as Reel Staff, Inc., we issued 8,211,728 shares of common stock to stockholders of FSTO in return for a 96.54% ownership interest in FSTO. On June 27, 2003, we issued 294,129 shares of our common stock to remaining shareholders of FSTO as a result of FSTO being merged into us pursuant to Delaware and Nevada law. The securities issued in the share exchange and the merger were exempt from registration pursuant to Section 4(2) of the Securities Act of 1933, as amended, because this issuance was not a public offering.

On September 1, 2002, prior to the share exchange with FSTO, as Reel Staff, Inc., we issued 850,000 common shares and 850,000 warrants, each warrant to purchase one of our common shares. The shares and warrants were issued in a private placement in reliance upon Regulation S under the Securities Act of 1933. The common shares were issued at a price of \$2.00 per share, resulting in aggregate proceeds of \$1,700,000 and net proceeds after costs of issuance of approximately \$1,500,000. We subsequently registered these shares and the shares underlying the warrants pursuant to an SB-2 Registration Statement that became effective February 19, 2003. As of August 31, 2003, all such warrants had been exercised, resulting in additional aggregate proceeds of \$1,700,000.

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**Item 6. Management's Discussion and Analysis of Financial Condition and Results of Operations.****Cautionary Statement Pursuant to Safe Harbor Provisions of the Private Securities Litigation Reform Act of 1995:**

Except for the historical information presented in this document, the matters discussed in this annual report on Form 10-KSB for the fiscal year ended May 31, 2006 or otherwise incorporated by reference into this document, contain "forward-looking statements" (as such term is defined in the Private Securities Litigation Reform Act of 1995). These statements are identified by the use of forward-looking terminology such as "believes", "plans", "intend", "scheduled", "potential", "continue", "estimates", "hopes", "goal", "objective", "expects", "may", "will", "should" or "anticipates" or the negative thereof or other variations thereon or comparable terminology, or by discussions of strategy that involve risks and uncertainties. The safe harbor provisions of Section 21E of the Securities Exchange Act of 1934, as amended, and Section 27A of the Securities Act of 1933, as amended, apply to forward-looking statements made by us. We caution you that no statements contained in this Form 10-KSB should be construed as a guarantee or assurance of future performance or results. These forward-looking statements involve risks and uncertainties, which include risks and uncertainties associated with, among other things, the outcome of pending class action litigation alleging violations of federal securities laws, the outcome of Massachusetts federal district court litigation initiated by Analogic Corporation concerning our TIICM™ technology, whether the government will implement Wake Vortex Advisory System at all or with the inclusion of a SOCRATES® wake vortex sensor, the impact of competitive products and pricing, limited visibility into future product demand, slower economic growth generally, difficulties inherent in the development of complex technology, new products sufficiency, availability of capital to fund operations, research and development, fluctuations in operating results, and these and other risks are discussed in the "Known Trends, Risks and Uncertainties" section Management's Discussion and Analysis of Financial Conditions and Results of Operations of this Form 10-KSB. The actual results that we achieve may differ materially from any forward-looking statements due to such risks and uncertainties. These forward-looking statements are based on current expectations, and, except as required by law, we assume no obligation to update this information whether as a result of new information, future events or otherwise. Readers are urged to carefully review and consider the various disclosures made by us in this Form 10-KSB and in our other reports filed with the Securities and Exchange Commission that attempt to advise interested parties of the risks and factors that may affect our business.

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**Overview**

Our current operations have been funded substantially by U.S. Congressional appropriations resulting in four successive sole source contracts with agencies of the federal government for research, development, and testing of our SOCRATES® wake vortex sensor and related work pertaining to a wake vortex advisory system, sometimes referred to as WVAS, that National Aeronautics and Space Administration (NASA) is developing. We estimate the appropriations to the Federal Aviation Administration (FAA) totaled approximately \$9.6 million in U.S. fiscal years ending September 30, 1997 through September 30, 2000 for research and development of our SOCRATES® wake vortex sensor; and appropriations to NASA for research and development of our SOCRATES® wake vortex sensor totaled approximately \$18.5 million in U.S. fiscal years ending September 30, 2001 through September 30, 2005. To date the total government appropriations for SOCRATES® and WVAS is approximately \$28.1 million. From these amounts, we have received four contracts aggregating approximately \$19.8 million in funding. As of May 31, 2006, we have recognized an aggregate of approximately \$18.6 million of contract revenue with \$0.1 million in contract receivable as of May 31, 2006. Our current SOCRATES® government contract backlog is approximately \$1.2 million. The balance of the government appropriations from 1997 to 2005 of approximately \$8.3 million has funded the FAA and NASA program management and technical participation in the development of our SOCRATES® wake vortex sensor and WVAS.

We have entered into these contracts with the Volpe National Transportation Systems Center of the U.S. Department of Transportation

(Volpe). Volpe funds our contracts when, as, and if it and other sponsoring federal agencies approve a statement of work and specific task orders under the statement of work. When funded, we invoice the federal government monthly based on our direct costs, including overhead and general and administrative plus a fixed fee for that month and typically receive payment by electronic wire transfer within two weeks of invoicing. Certain costs, such as lobbying, product development, and business development expenses that are not allowable under these contracts, research and development costs we incur over certain cost caps set by the U.S. government, costs incurred while our contracts are not funded, or costs deemed unreasonable, and hence unrecoverable, by the government are not reimbursable under our government contracts and have been funded primarily by proceeds of our equity offerings. All of our government contracts and funding are subject to the requirements of the Federal Acquisition Regulations.

On September 25, 2005, we received our fourth successive contract from Volpe in the aggregate amount of approximately \$9.8 million to continue research, development and testing of our SOCRATES® technology. The initial task order funding under this new contract provided approximately \$1.7 million of contract funding to us and was dated September 25, 2005. On January 27, 2006 we received our second task order under this new contract which provided approximately \$1.4 million of new funding.

The federal budget for U.S. FY 2006 does not contain any further stipulated earmarks for testing and development of SOCRATES®-based technology. We are continuing to explore additional funding from potential sources in the NASA and/or U.S. DOT budgets for U.S. FY 2007 and beyond.

The table below represents the U.S. Government funding to date for our four SOCRATES® contracts.

SOCRATES® Phase	Contract Number	Contract Funding	Period of Performance
I	DTRS-57-97-C-00042	\$3,019,355	From June 1, 1997 To July 31, 1999
II	DTRS-57-99-D-00074	\$6,062,948	From August 27, 1999 To December 31, 2003
III	DTRS-57-03-D-30024	\$7,634,616	From November 1, 2003 To October 15, 2005
IV	DTRT-57-05-D-30115 Task Order No: T0001	\$1,695,029	From September 15, 2005 To Present
	DTRT-57-05-D-30115 Task Order No: T0002	<u>\$1,409,025</u>	From January 27, 2006 To Present
Total contract funding to date		<u>\$19,820,973</u>	

Our ability to generate additional revenue under our Phase IV contract after we have expended the current task order funding of \$1,409,025, which is expected to support our current level of effort through approximately September 30, 2006, is subject to further U.S. Government funding and the issuance of additional task orders. The Phase IV contract was awarded on September 25, 2005 for \$9,815,140 and the remaining amount of \$6,711,086 can be funded with new task orders which generally require less administrative effort than a new contract award, if additional funding is available under this contract. We believe the federal government has indicated a long-term interest in the development of a wake vortex avoidance system and our SOCRATES® wake vortex sensor for potential inclusion in such a system. However, there is currently \$0 for further research and development of SOCRATES® technology or WVAS in the current federal budget for its fiscal year 2006. We are pursuing other sources of funding but can make no assurances of whether or when we will obtain additional contract funding for research and development of SOCRATES® technology. Our inability to obtain or any delay in contract funding from the federal government could eliminate or delay achievement of profitability, if any, create a substantial strain on our liquidity, resources and product development, and have a material adverse effect on the progress of our research and development and our financial condition.

From June 1, 1997, to the present we have advanced the SOCRATES® concept through various research and development milestones and now have a 16 beam SOCRATES® sensor installed at Denver International Airport where we anticipate the sensor will undergo further testing in

fiscal year 2007. Our current contract Task Order No. T0002 statement of work includes system engineering and development of a concept of operations for a functional emulation of a WVAS and preparation for additional field testing. During the 2006 New Years Eve holiday period there was a break-in and vandalism at our SOCRATES® sensor test site at Denver International Airport. A number of items were stolen from the SOCRATES® sensor van as well as from the U.S. Department of Transportation Volpe trailer on site. Damage to SOCRATES® sensor optoelectronics also occurred as a result of fire retardant chemicals being sprayed by the perpetrators. As of May 31, 2006 the SOCRATES™ sensor has not been fully restored but we believe the sensor will be ready for additional testing by September 2006. There can be no guarantee or assurance of a complete restoration. We have insurance coverage for the damage to the SOCRATES™ sensor.

We also are pursuing development of an airborne collision and ground proximity warning system we refer to as UNICORN™. We believe that UNICORN™ may have application to unmanned air vehicles operated for a variety of private and governmental purposes. As of May 31, 2006 the cumulative research and development expense for UNICORN™ is approximately \$1,280,000. During August 2005 we tested a UNICORN™ prototype antenna in a proof-of-principle test. The data collected from this test is currently being analyzed. We currently are reviewing and exploring partnering opportunities for development of UNICORN™.

During fiscal year 2005, we also began the exploratory development of a third major technology initiative called TIICM™ (Tactical Integrated Illuminating Countermeasure) in conjunction with Sanders Design International (SDI), a New Hampshire company. TIICM™ is intended to provide a low cost yet highly effective shield of protection for airliners against the threat of certain terrorist-launched missiles. In April 2004, we executed a ten year Teaming Agreement with SDI under which we would be the prime contractor on development of countermeasure technologies to protect aircraft from shoulder-fired missiles. As of May 31, 2006 our cumulative independent research and development expense for TIICM™ is approximately \$685,000. We have entered into additional arrangements with SDI pursuant to which we have applied for a new patent on TIICM™ with SDI and would have joint ownership of any resulting patent. In the Department of Homeland Security budget for U.S. Fiscal Year 2006, Congress added \$10 million for the investigation of emerging technology for the protection of civil aircraft against terrorist missile threats. SDI expects to receive \$1 million in funding from an extension to their Phase II contract with the U.S. Air Force for further TIICM™ research and development. This funding will come half from the U.S. Air Force and half from the Department of Homeland Security. FST expects to negotiate a subcontract from SDI to support this further development, test and maturation of TIICM™ technology. There can be no assurance that any new patents on TIICM™ will be issued, or that we will derive any revenue or profit from TIICM™, nor any expectation that we will receive any government or commercial funding for TIICM™. Prospects for development of TIICM™ may be adversely influenced by pending litigation that Analogic Corporation, which previously had supported development of TIICM™, brought against us and SDI.

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We have experienced significant losses since our inception. The loss for the fiscal years ending May 31, 2006, 2005, and 2004 were \$2,257,559, \$1,411,644 and \$424,214, respectively. The net loss for our fiscal year ended May 31, 2004 was caused primarily by two factors: (1) rate ceilings during the first six months, and (2) unallowable expenses under our government contract. The loss for the fiscal year ending May 31, 2005 was caused by: (1) unallowable expenses, (2) expenses during a partially unfunded period, and (3) unrecoverable expenses. The loss for the fiscal year ended May 31, 2006 was caused by (1) unallowable expenses, (2) contract cost overruns, (3) unrecoverable expenses, and (4) corporate research and development expenses. The unrecoverable expense category represents general and administrative expenses, primarily legal expenses and independent research and development expense which we believe are necessary but are significantly higher compared to prior years and may be considered unreasonable by the Defense Contract Audit Agency for a company our size.

Our Phase III and Phase IV government contracts do not include rate ceilings. If the government deems our allowable expenses to be reasonable, of which there can be no assurance, the absence of rate ceilings should eliminate or reduce a significant source of losses in previous years. We will continue to incur certain unallowable expenses or allowable expenses the government deems unreasonable. We also remain subject to the risk of further delay, reduction or elimination in federal contract funding. However, it is our view that the elimination of rate ceilings is a significant improvement to our historical contract terms.

### **Critical Accounting Policies and Estimates**

The discussion and analysis of our financial condition and results of operations are based on our financial statements that have been prepared according to accounting principles generally accepted in the United States of America. In preparing these financial statements, we are required to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses and related disclosures of contingent assets and liabilities. We evaluate these estimates on an on-going basis. We base these estimates on historical experiences and on various other assumptions that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities. Actual results may differ from these estimates under different assumptions or conditions. Our management has discussed these estimates and assumptions with our finance and audit committee. At this point in our operations, subjective judgments do not have a material impact on our financial statements except as discussed in the next paragraph.

Federal Acquisitions Regulations require that, among other things, our reimbursable costs are reasonable. We have analyzed our actual overhead rate and general administrative rate for the fiscal year ended May 31, 2006. We believe all component costs have been ordinary and necessary but that government auditors may consider some of our selling, general and administrative expenses and our independent research and development expense for UNICORN™ technology for the fiscal year ended May 31, 2006 unreasonable for a company

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our size. For rate setting purposes, we have excluded approximately \$1,000,000 for potential unrecoverable selling, general and administrative, research and development, and certain other expenses, i.e., unabsorbed operating expenses, for the fiscal year ended May 31, 2006. Since there is a degree of subjectivity in the judgment of what levels of cost are reasonable, we can make no assurance that the government will not require further adjustments.

Our financial statements and notes thereto include an item for "Other Receivables" that is described therein. Other receivables includes recoverable rate differences resulting from the difference between the current general and administrative rate compared to our provisional rate. For the fiscal years ended May 31, 2006 and 2005 this difference was \$0 and \$291,000, respectively.

## Results of Operations

### FLIGHT SAFETY TECHNOLOGIES, INC.

#### Statements of Operations and Comprehensive Income (Loss) For the Years Ended May 31, 2006 and May 31, 2005

	May 31, <u>2006</u>	May 31, <u>2005</u>
Contract Revenues	\$ 3,869,962	\$ 3,310,871
Cost of Revenues	<u>2,369,311</u>	<u>2,233,773</u>
Gross Profit	1,500,651	1,077,098
Operating Expenses		
Research and development	1,054,278	557,137
Selling, general and administrative	2,592,745	2,001,871
Depreciation and amortization	<u>108,001</u>	<u>125,660</u>
Total Operating Expenses	<u>3,755,024</u>	<u>2,684,668</u>
Loss From Operations	(2,254,373)	(1,607,570)
Other Income (Expense)		
Interest income	283,951	223,586
Loss on investments available for sale	<u>(262,337)</u>	--
Loss before provision for income taxes	(2,232,759)	(1,383,984)
Provision for income taxes	<u>24,800</u>	<u>27,660</u>
Net Income (Loss)	(2,257,559)	(1,411,644)
Other Comprehensive Income (Loss)		
Unrealized (Loss) on investments	(98,314)	(44,522)
Less reclassification adjustment for loss included in net income	<u>262,337</u>	--
Comprehensive Income (Loss)	<u>\$(2,093,536)</u>	<u>\$(1,456,166)</u>
Net Loss Per Share		
Basic and diluted	\$ (.27)	\$ (.17)
Weighted Average Number of Shares Outstanding		
Basic and diluted	8,215,168	8,217,971

*Revenues.* To date, our revenues have consisted almost entirely of revenues earned from our four successive SOCRATES® wake vortex sensor research and development contracts with the federal government.

Contract revenue for the fiscal year ended May 31, 2006 was \$3,869,962 compared to \$3,310,871 for the fiscal year ended May 31, 2005. The \$559,091 increase for the fiscal year ended May 31, 2006 compared to the prior year was due primarily to the increased subcontractor, direct labor and consultant costs to test the 16 beam SOCRATES® system during the three months ended November 30, 2005 at Denver International Airport. Contract revenue for fiscal year ended May 31, 2006 and 2005 also included \$142,608 and \$39,508, respectively for engineering services we provided to companies conducting research and development in the maritime industry. The revenue increase of \$103,100 is part of the overall revenue increase of \$559,091.

*Costs of Revenues.* Subcontractor, consultant and direct labor expenses comprise our costs of revenues. Costs of revenue for the fiscal year ended May 31, 2006 was \$2,369,311 or 61.2% of revenue, compared to \$2,233,773 or 67.4% of revenue for the fiscal year ending May 31, 2005. The increase in cost of revenues is primarily due to increased cost to test the 16 beam SOCRATES® system in September and October 2005 at Denver International Airport.

When our government contract is funded, charges to direct costs do not generally negatively impact our operating results because each contract covers its own direct costs. However, during periods when our government contract is not funded or if the actual direct cost of a specific task order exceeds its budgeted funding and the government is not willing to reallocate direct costs between task orders, any such costs we may incur are cost overruns, which are not reimbursable and must be funded from our own resources.

*Research and Development.* Our research and development expense for the fiscal year ended May 31, 2006 was \$1,054,278 compared to \$557,137 for the fiscal year ended May 31, 2005. The increase in research and development expenses of \$497,141 for the fiscal year ended May 31, 2006 was primarily due to the increase of approximately \$565,000 for project TIICM™ (Tactical Integrated Illumination Countermeasure) for fiscal year end of May 31, 2006 compared to May 31, 2005 and a decrease of \$70,000 in the cost of research and development of our UNICORN™ technology for fiscal year ended May 31, 2006.

*Selling, General and Administrative Expenses.* As a Federal government contractor we are required to categorize selling, general and administrative expenses as allowable or unallowable. Unallowable expenses are defined in the Federal Acquisition Regulations (FAR) and include lobbying expense, stock based compensation, certain investor relations expenses, legal and professional expenses for defense of lawsuits and intellectual property issues, company car expense, advertising, and travel expense over the government per-diem rates. Unallowable expenses are not reimbursable by the Federal Government. Allowable and unallowable selling general and administrative expenses for the fiscal years ending May 31, 2006 and May 31, 2005 are detailed and discussed below.

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**TABLE 1**

<b>Detail increase/(decrease) by account for the fiscal years</b>	<b>May 31, <u>2006</u></b>	<b>May 31, <u>2005</u></b>	<b>Increase / <u>(Decrease)</u></b>
<b><u>Unallowable</u></b>			
<b><u>Selling, general &amp; administrative expenses</u></b>			
Stock based compensation			\$(105,195)
Director and officer insurance	\$4,769	\$109,964	(99,044)
Investor relations	- --	99,044	(38,032)
Legal and professional	14,790	52,822	(13,300)
Lobbying	208,872	222,172	7,070
All other	170,927	163,857	5,180
<b>Total</b>	<b><u>156,374</u></b>	<b><u>151,194</u></b>	<b><u>\$(243,321)</u></b>
	<b><u>\$555,732</u></b>	<b><u>\$799,053</u></b>	
<b><u>Allowable</u></b>			
<b><u>Selling, general &amp; administrative expenses</u></b>			
Salaries and wages			\$ 187,981
Employee benefits	\$ 407,084	\$ 219,103	138,111
Business development	479,246	341,135	87,321
Directors fees	227,733	140,412	63,347
Consulting fees	170,267	106,920	193,477
Insurance expense	214,633	21,156	144,362
All other	148,073	3,711	19,596
<b>Total</b>	<b><u>389,977</u></b>	<b><u>370,381</u></b>	<b><u>\$ 834,195</u></b>
	<b><u>\$ 2,037,013</u></b>	<b><u>\$ 1,202,818</u></b>	
Total selling, general and administrative expenses	<b><u>\$ 2,592,745</u></b>	<b><u>\$ 2,001,871</u></b>	<b><u>\$ 590,874</u></b>

Salaries and wages: The increase in salary and wages is primarily due to the addition of C. Robert Knight to the administrative staff as Secretary and General Counsel. For the fiscal year ended May 31, 2006, the total wages and salaries was \$157,700, compared to \$0 for this position in the fiscal year ended May 31, 2005. In addition, the Company had increased secretarial support staff.

Employee benefits: The increased benefits are associated with the addition to staff of C. Robert Knight, the increase in the cost of health insurance and the issuance of an employee bonus in January 2006.

Business development: The increase in business development included trips to Germany to discuss our SOCRATES® technology and WVAS technology with Frankfurt Airport Authority and to France for discussions with Airbus. We also incurred expenses in preparation for the Farnborough International Air Show in England starting July 17, 2006. We also incurred cost for trips to talk with government and industry representatives to discuss opportunities for funding the development of our TIICM™ technology.

Director's fees: There have been several unscheduled meetings of our board of directors and committee meetings concerning management succession planning, staffing and employee issues and there have been additional compliance, disclosure and ethics oversight committee meetings.

Consulting fees: We retained a consulting firm to provide market analysis and strategic planning for our UNICORN™ technology. The total cost for this consulting firm was \$161,698 for fiscal year ending May 31, 2006. The balance of the increase was the result of additional costs of contract labor to support accounting and administration.

Insurance: For all of FY2005, our interpretation of the Federal Acquisition Regulations considered our Directors and Officers (D&O) insurance an unallowable expense. During a Defense Contract Audit Agency audit in September, 2005, we received a favorable opinion as to the allowability of D&O insurance. All D&O insurance is allowable for FY 2006. In addition, all insurance premiums have increased for FY 2006.

The operating losses for fiscal years ended May 31, 2006 and May 31, 2005 are primarily due to five unreimbursable non-contract costs: 1) Unallowable expenses, 2) contract cost overruns, 3) expenses during unfunded periods, 4) unabsorbed operating expenses, and/or, 5) corporate research and development primarily for TIICM™. These non-contract costs are not reimbursable under our U.S. government contracts and

must be paid from other sources, primarily proceeds from the public and private sales of our equity securities. Non-contract costs have been the primary use of this source of liquidity and have had a

significant impact on our operating loss to date. Our non-contract costs are detailed below:

**TABLE 2**

	<b>For the Fiscal Years Ended</b>	
	<b><u>5-31-06</u></b>	<b><u>5-31-05</u></b>
1. Unallowable, selling, general and administrative expenses (1) (2)	\$555,732	\$799,053
2. Contract cost overruns	126,052	--
3. Expenses during unfunded period	--	401,903
4. Unabsorbed operating expenses	1,033,498	554,666
5. Corporate Research and Development	<u>626,440</u>	<u>58,851</u>
Total	<u>\$2,341,722</u>	<u>\$1,814,473</u>

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Notes:

(1) Includes \$4,769 of stock based compensation expense for the fiscal year ended 5-31-06.

(2) Includes \$109,964 of stock based compensation expense for the fiscal year ended 5-31-05.

Below is a discussion and analysis of the non-contract cost categories listed above.

(1) Unallowable, Selling, General and Administrative Expenses. The primary reasons for the decrease in unallowable expenses for the fiscal year ending May 31, 2006 compared to that ending May 31, 2005 were decreased stock based compensation of \$105,195, decreased unallowable D&O insurance of \$99,044 and decreased unallowable investor relations of \$38,032.

(2) Contract Cost Overruns. Contract cost overrun for the fiscal year ended May 31, 2006 represents direct labor, overhead and consulting expense, in excess of the contract funding to complete Task Order No T0001 of our current government contract.

(3) Expenses During Unfunded Period. For the year ended May 31, 2005, there was a three month period, September through November 2004 during which most of our contract work was unfunded. We had contract funding during all of our fiscal year ended May 31, 2006.

(4) Unabsorbed Operating Expenses. Unabsorbed operating expenses are primarily allowable selling, general and administrative expenses plus other recoverable operating expenses, such as depreciation, state income taxes and UNICORN™ technology research and development less the absorbed expense which we bill to the government pursuant to the terms of our government contracts. The table below details the increase of \$478,832 from FY 2005 to FY 2006.

	<b><u>May 31,</u></b> <b><u>2006</u></b>	<b><u>May 31,</u></b> <b><u>2005</u></b>	<b><u>Increase /</u></b> <b><u>(Decrease)</u></b>
Allowable selling, general and administrative expenses	\$ 2,037,013	\$ 1,202,818	\$ 834,195
Other recoverable operating expenses	\$ 434,429	\$ 414,793	\$ 19,636
Absorption / billings to government	<u>\$(1,437,944)</u>	<u>\$(1,062,945)</u>	<u>\$ (374,999)</u>
Increase in unabsorbed operating expenses	\$ 1,033,498	\$ 554,666	\$ 478,832

(5) Corporate Research and Development. The increase of \$567,589 for fiscal year ending May 31, 2006 compared to 2005 was due primarily to the development of our TIICM™ technology. This category represents primarily R&D for TIICM™ with minor amounts for other areas of interest.

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## **Liquidity and Capital Resources**

Our liquidity is primarily provided by revenue from our government contracts and proceeds from the sale of our equity securities.

Our fourth contract, titled Phase IV SOCRATES®, is the fourth successive contract that we have received to continue work on our SOCRATES® wake vortex sensor and was initially funded at \$1,695,029 and a second task order has provided additional funding of \$1,409,025. Our funded contract backlog for our Phase IV contract as of May 31, 2006 was \$1,211,484 and this backlog will fund our allowable operating expenses to approximately December 31, 2006.

As of May 31, 2006 and May 31, 2005, our cash and investments were \$6,145,398 and \$7,888,831, respectively. The decrease in cash on hand and investments of approximately \$1,743,000 was primarily attributable to the net loss of approximately \$2,258,000 and purchases of equipment and patent costs of approximately \$131,000, offset by the decrease in accounts receivables/other receivables of approximately \$519,000, and depreciation and amortization expense of approximately \$108,000 for the fiscal year ended May 31, 2006.

As of May 31, 2006, we had other receivables of \$96,673 compared to \$330,010 as of May 31, 2005. The decrease is due to the billing and cash receipt of approximately \$291,000 of previously unbilled receivable rate difference on our Phase III contract and the addition of approximately \$58,000 for retained fees on our Phase III and IV contracts for the fiscal year ended May 31, 2006.

As of May 31, 2006, our accounts receivable were \$130,001 compared to \$415,617 as of May 31, 2005. The balance as of May 31, 2006 reflects the decrease in contract revenue of approximately \$286,000 for the month ended May 31, 2006 compared to the month ended May 31, 2005. The decrease in revenue was due primarily to a decrease in subcontract costs for the month ending May 31, 2006. As of May 31, 2006 other current assets were \$264,750 compared to \$51,721 as of May 31, 2005. This increase of \$213,029 is due to reimbursable legal fees we incurred of \$215,488 which primarily were for the preparation of a motion to dismiss a class action suit brought against us on July 14, 2004. Our current director's and officer's insurance policy has a \$200,000 deductible and the \$215,488 of reimbursable legal fees is the excess of the deductible for which we expect to receive insurance proceeds.

We had total current liabilities, including accounts payable, of \$831,965 as of May 31, 2006 compared to \$769,653 as of May 31, 2005. Accounts payable as of May 31, 2006 were \$603,538, which included \$80,164 to our subcontractor, Lockheed Martin Corporation, \$202,716 to four law firms, \$101,235 to consultants for our UNICORN™ market study, and \$219,423 in other expenses compared to accounts payable as of May 31, 2005 of \$589,313, which included \$319,391 to Lockheed Martin, \$64,544 in legal fees and \$205,378 in other expenses.

We anticipate that our funded contract balance for Task Orders 0001 and 0002 of our Phase IV contract of approximately \$1,200,000 as of May 31, 2006 will fund our contract costs for SOCRATES® research and development until approximately December 31, 2006. During this period, we anticipate that we will fund a substantial portion of our other operating costs from our own cash and investments on hand.

For the three month period from June 1, 2006 to August 31, 2006, we have estimated and expect to incur approximately \$225,000 in non-contract unallowable and unabsorbed operating expenses, \$200,000 in contract cost overruns and approximately \$250,000 in corporate research and development for project TIICM™. During this period, we have estimated and expect to receive approximately \$25,000 in fees from our contract billing, and approximately \$70,000 of interest income. Assuming we achieve these estimates, as to which we can make no guaranty or assurance, we estimate our available cash and investments is approximately \$5,600,000 as of August 31, 2006. Any acceleration or delays in the performance of these contracts by us or our subcontractors could, respectively, exhaust or extend our contract funding prior to or after December 31, 2006. In either event, we might be required to draw upon our cash before we anticipate which would reduce the foregoing estimate of cash and investments. However, we believe that we will be able to adjust our operations to cover expenses at least through May 31, 2007.

Our use of cash projections does not consider additional funding from our \$9.815 million SOCRATES® research and development contract received September 15, 2005 beyond the current task order funding of \$3.104 million. In order to receive additional contract funding the government must request and we must submit a cost and technical proposal for review and approval of the government. As of the date of this report, we have not received a request for an additional task order and do not have a projection as to a date for additional task orders. Further task orders will require additional government funding for further research and development of SOCRATES® technology or WVAS, of which there is \$0 in the current federal budget for its fiscal year ending September 30, 2006. We are actively pursuing various sources of funding but there can be no assurance as to whether or when we will obtain such funding. By September 30, 2006, there is a high probability that there will be no government or outside source of funding for the development of our SOCRATES®, UNICORN™, or TIICM™ technology and we can make no assurance as to whether or when we will obtain any such funding. Lack of and further delays in obtaining additional government contract or other outside funding will require us to draw upon our cash to fund our operations. Without such internal funding, we would be unable to carry on and complete further research and development of SOCRATES® technology or WVAS, as well as our other technologies.

However, our own resources are limited and not sufficient to complete the research, development and testing that is necessary to commercialize any of our technologies. Our inability to obtain further government funding for research, development and testing of our technologies would have a material adverse affect upon our financial condition and prospects for success and profitability.

From time to time, we may consider and execute strategic investments, acquisitions, or other transactions that we believe could benefit us and could require the use of some or all of our liquidity. To facilitate such transactions and enhance our liquidity position for these and other purposes, such as working capital for research and development, we also may conduct from time to time various types of equity offerings, including, but not limited to, public or private offerings of common or preferred stock based on a negotiated fixed share value, or floating market price of our publicly traded shares. If we encounter delays in, or are unable to procure contract funding from the U.S. Government for further research, development and testing of our SOCRATES® wake vortex sensor, incur costs over our budget, or make strategic investments, our cash resources will be reduced more rapidly than we presently anticipate. In such event, we may need to obtain additional capital to maintain operations. There can be no guarantee or assurance of our future ability to obtain capital for any of the foregoing purposes and, if obtained, the terms and conditions of such capital may dilute our present shareholders' ownership.

### **Known Trends, Risks and Uncertainties**

**Our business and future success are subject to many risks. The following describes some of the general and specific trends, risks, and uncertainties to which our business is subject and should be read with care.**

#### **Risks Related to Our Business**

**Our limited operating history and lack of commercial operations make it difficult to evaluate our prospects.**

Since we began operations in 1997, we have generated limited revenues solely from four SOCRATES® technology research and development contracts with agencies of the federal government that fund, administer, and oversee these contracts. The federal government has funded these contracts from earmarked U.S. Congressional appropriations to agencies that have awarded these contracts to us on a sole source basis without competitive bidding. Under these contracts, we are reimbursed for certain allowable research and development costs and are paid a fee calculated as a percentage of costs.

All of our contract funding to date, including the current and next anticipated task order, has resulted from earmarks made by the U.S. Congress during its budget and appropriation process. We do not expect to receive further contract funding for fiscal year 2006 in this manner. Rather, we expect our future contract funding, if any, will depend primarily upon and result from the decision of our sponsoring agencies, particularly the FAA, to approve contract funding for research and development of our SOCRATES® wake vortex sensor or the wake vortex advisory system as part of their agency budget and make funds available for such purpose from amounts appropriated to them by Congress or other sources. There can be no assurance that we will be successful in obtaining any such funding.

We have not as yet received any revenue from the sale of any products. We do not anticipate receiving any such revenue unless and until our SOCRATES®, UNICORN™ or TIICM™ based products become operational, which could take several years. Our estimates of the market size for the products we are developing are based on many assumptions and uncertainties. Estimates for UNICORN™ have recently been evaluated by an outside consulting firm. The actual markets and price we can charge for our products, if and when we successfully complete their development, could be substantially less and our costs could be greater than our estimates. It therefore is difficult to assess our prospects for commercial sales, revenues and profitability.

**We have incurred and, for the next several years, can be expected to incur operating losses.**

To date, we have incurred significant net losses, including net losses of \$2,257,559 for the fiscal year ended May 31, 2006, \$1,411,644 for the fiscal year ended May 31, 2005 and \$424,214 for the fiscal year ended May 31, 2004. We had an accumulated deficit of \$6,553,440 as of May 31, 2006. We anticipate we may continue to incur operating losses for at least the next several years. We may never generate material revenues or achieve or maintain profitability. Substantially all our revenues have been devoted to payment of costs incurred in the research, development, and testing of our SOCRATES® or UNICORN™ technology. Our ability to achieve, maintain, and/or increase profitability will depend in large part upon the successful further development and testing of our SOCRATES®, UNICORN™-based, and TIICM™ products,

Congressional appropriations and our ability to obtain additional federal research and development contracts for SOCRATES®, UNICORN™ and TIICM™ based products, approval of our SOCRATES®, UNICORN™-based, and TIICM™ products and systems by various agencies of the federal government, procurement of our products and systems by the FAA, airports and the aviation industry, and the availability of funding to finance such procurements.

**Lack of future funding from the federal government to complete research and development of our SOCRATES® wake vortex sensor could adversely affect our business.**

The current federal budget for its fiscal year ending September 30, 2006 does not contain contract funding for further research and development of our SOCRATES® technology and, at present, it is too early to determine if we will succeed in obtaining such funding in the federal budget for its fiscal year 2007 that commences October 1, 2006. In any event, we do not anticipate the receipt of additional government funding for our Phase IV SOCRATES® technology contract, if at all, before December 31, 2006. We continue to explore government funding for research and development of our SOCRATES® technology and our other technologies, as well as other sources but can make no assurance as to whether, when or in what amount we will be able to obtain any such funding. While we believe the federal government will continue to have a long-term interest in the development of a wake vortex advisory system

and our SOCRATES® wake vortex sensor for inclusion in such a system, the U.S. government may terminate our government contract at any time if it determines such termination is in the best interests of the government or may terminate, reduce or modify it because of budgetary constraints or any change in the government's requirements. Furthermore, the federal government has in the past delayed or reduced and may in the future delay, reduce, or eliminate funding for research and development of our SOCRATES® wake vortex sensor or the wake vortex advisory system as a result of, among other things, lack of progress or set backs in technology development, a reduction in support or opposition from supervising agencies or the U.S. Congress, changes in budgetary priorities, fiscal constraints caused by federal budget deficits, or decisions to fund competing systems or components of systems. If this occurs, it will reduce our resources available for research and development of our proprietary technologies, new products or enhancements to SOCRATES®, UNICORN™ or TIICM™ technologies and to market our products. Termination or reduction of contract funding from the federal government could prevent or delay achievement of or increases in profitability, if any, create a substantial strain on our liquidity, resources and product development, and have a material adverse effect on the progress of our research and development and our financial condition.

**The government will not pay us for SOCRATES® research and development if we do not perform on our contract.**

We perform our government contracts pursuant to specific work orders from the government. Such work orders include, but are not limited to, analysis of data, research, development of our SOCRATES® technology, planning and conduct of testing, and preparation of various reports. If we do not perform the contracts in accordance with their terms, the government may withhold payment on our invoices that we submit monthly. Furthermore, if at any point the government considers a test to be a failure, it may cease to approve further work orders or fund further contracts. Loss of funding on our SOCRATES® contract would have a material adverse effect on our business, financial condition, and results of operations.

**Our success depends on our successful product development and testing.**

Our future success will depend upon our ability to successfully complete the development, testing, and commercialization of our technologies and our ability to develop and introduce new products and services to meet industry, government, and client requirements. We are planning to eventually develop a number of products, based on our SOCRATES®, UNICORN™ and TIICM™ technologies. The process of developing such products contains significant technological and engineering hurdles and is extremely complex and expensive. In 2001, Volpe and associated federally funded research centers prepared reports which concluded it was unlikely SOCRATES® would result in a sensor that could be used for any operational procedure and even for research because of technical unknowns relating to an understanding of wake vortices and the need to obtain acceptance of WVAS by controllers and pilots. We believe this

conclusion was premature and based on an incomplete understanding of SOCRATES® and its operational potential. In our opinion, the testing

and analysis we have conducted has increasingly supported this potential and resulted in the continuation of funding for our government contracts for research, development and testing of our SOCRATES® technology. However, there still are technical, engineering and program integration hurdles we must meet to develop SOCRATES® into an operational sensor, including, but not limited to, expanding the sensor to at least sixteen and as many as thirty-two laser beams, integrating the sensor into and with the other components of WVAS, and developing operating protocols for WVAS that define how it would be used by air traffic controllers and pilots. In the case of UNICORN™, we must successfully overcome development, engineering and testing hurdles to produce an operational product and obtain FAA approval of this product. Furthermore, we will need to extend the term of the experimental license the FCC has granted us and, ultimately, obtain a permanent license from the FCC for the operation of UNICORN™. We might not successfully complete the development of our SOCRATES®, UNICORN™ or TIICM™ technologies into operational products and our products may not be commercially viable. Our failure to complete development of any such products and achieve market acceptance would have a material adverse effect on our business, financial condition, and results of operations.

In addition, certain of our products will require customized installation to address unique characteristics of their environments. Customization could place an additional burden on our resources or delay the delivery or installation of products which, in turn, could have a material adverse effect on our relationship with clients, our business, financial condition, and results of operations.

**Our success depends on federal government approval of our products and related systems.**

The airport and aviation industry is subject to extensive government oversight and regulation. To introduce our SOCRATES®, UNICORN™ or TIICM™ based products for commercial sale, we must successfully complete research, development, and testing and obtain necessary governmental approvals for their installation. Upon approval by the Federal Aviation Administration, or FAA, our SOCRATES® wake vortex sensor would be part of a multi-component wake vortex advisory system that also will require government approvals before it can be deployed. Any factor that delays or adversely affects this approval process, including delays in development or inability to obtain necessary government approvals, could have a material adverse effect on our business, financial condition, and results of operations, and we can make no assurance when or if all such approvals will be obtained.

**Our business has relied on a strategic alliance with Lockheed Martin Corporation.**

In May 1997, we signed a teaming agreement with Lockheed Martin Corporation to jointly develop and market SOCRATES® based products. This agreement will expire in May 2007, unless certain earlier termination provisions occur or the agreement is extended by mutual agreement. The agreement stipulates that we serve as prime contractor and Lockheed Martin Corporation as subcontractor in the development and any deployment of our SOCRATES® wake vortex sensor. Although to date we have generally worked in close cooperation with Lockheed Martin Corporation, we do not expect that this relationship will be sustained. Future disagreements as to work scope, revenue share, profit margins, ownership of intellectual property, or technical, marketing, or management philosophy, could adversely impact the relationship. Since we view our strategic relationship with Lockheed Martin Corporation as an important element of our business plan, any erosion of this relationship could have a negative impact on our business and future value.

On April 26, 2004, in conjunction with the renewal of a nondisclosure agreement, we were advised by Lockheed Martin Corporation that it owns a certain patent which predates our SOCRATES® patent and, according to Lockheed Martin Corporation, contains some intellectual property related to our SOCRATES® patent. Lockheed Martin Corporation has told us that it was prevented from previously disclosing the patent to us because of a government secrecy order. After consultation with counsel, including our patent counsel, we strongly believe that the Lockheed Martin Corporation patent will not impair the value of our SOCRATES® patent because our SOCRATES® patent is aimed at improving air traffic safety, a use not contemplated by the Lockheed Martin Corporation patent. Furthermore, it is our position that Lockheed Martin Corporation acknowledged and accepted our invention of the SOCRATES® technology in the May 1997 teaming agreement. We have met several times with Lockheed Martin Corporation to discuss the matter and potential opportunities relating to our SOCRATES® patent. Although these discussions are continuing, to date, Lockheed Martin Corporation continues to disagree with our position.

In our continuing discussion with Lockheed Martin Corporation concerning our respective intellectual property claims, Lockheed Martin has asserted that essentially all of its work product, which results from its research and development on SOCRATES® technology pursuant to work orders from us, is its property. We have informed Lockheed Martin that we believe that we own or have rights to use such work product, subject to any rights of the government. While we continued discussions on these and other issues, Lockheed informed us in February 2006

that it would temporarily suspend its contract effort on task order No. T0001 of our Phase IV contract for SOCRATES® technology and related matters until these issues are resolved. We continued to work on task order No. T0001 and T0002 and believe the task orders were minimally impacted by the absence of Lockheed Martin. During May 2006, Lockheed Martin agreed to language concerning SOCRATES® intellectual property that we proposed and lifted its suspension of work and started working on T0001 in June 2006. However, Lockheed Martin has declined to participate and proceed on task order T0002 as it believes that task order is beyond the scope of the teaming agreement.

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In order to complete our contractual commitments to the government under T0002, we are working with Intergraph Corporation to be our principal support subcontractor for the emulation of an operational SOCRATES® wake vortex sensor within a conceptual WVAS at Denver International Airport in late 2006 or early 2007.

We can make no assurance as to whether or when these issues will be completely resolved with Lockheed Martin in a satisfactory manner. It is too early for us to assess how this situation will impact us and discussions between us and Lockheed Martin are ongoing. Any further suspension of work by Lockheed Martin could have a material adverse effect upon our ability to obtain further government funding for and carryout research, development of our SOCRATES® technology, as well as on our operations, finances and prospects for successful completion and commercialization of SOCRATES® technology. We cannot predict or provide any assurance on the outcome of these discussions and whether any outcome will be satisfactory to us.

#### **We may need to raise additional capital.**

We cannot be certain that our present financial resources will be adequate or sufficient for our future needs. We face many uncertainties with respect to research and development and the timing of commercialization of our SOCRATES®, UNICORN™ and TIICM™ based products, the availability and level of government funding, the FAA approvals required for our products, and the long sales cycle from initial customer contact to actual, if any, revenue generation. Depending on the outcome of these uncertainties, we might not be able to generate sufficient, if any, revenue or investment capital to fund our research and development and operations over the period of years we believe are required to commercialize our products. In each of our last three fiscal years, we have incurred substantial operating losses which we have funded, in part, with equity capital that we raised from new investors.

We will continue to incur significant expenses for research and development and testing of our SOCRATES®, UNICORN™ and TIICM™ technology and may continue to experience such losses prior to commercialization and thereafter. Our current financial resources are limited and are not sufficient to achieve commercialization of our SOCRATES®, UNICORN™ and TIICM™ technologies. If we are unable to generate sufficient working capital from revenue from government funding or private contracts for these purposes, we would need to seek additional capital. In addition, other unforeseen costs, including, without limitation, marketing, sales and installation and research and development costs of later generation SOCRATES®, UNICORN™ and TIICM™ based products also could require us to seek additional capital. We do not have any credit facilities in place and, should the need for additional capital arise, we may not be able to obtain sufficient, if any, additional capital or raise such capital on acceptable terms. If we need to obtain additional debt or equity capital, it may include our entry into joint ventures or issuance of additional securities, which may cause dilution to our current capital structure and stockholders' ownership. Additional securities also could have a greater priority as to dividends, distributions and other rights than our common stock.

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For the life of our public warrants, and the underwriter's warrants issued pursuant to our February 2004 public offering, and our existing unregistered options, the holders thereof are given the opportunity to profit from a rise in the market for our common stock, with a resulting dilution in the interest of all other stockholders. So long as these warrants or options are outstanding, the terms on which we could obtain additional capital may be adversely affected. The holders of these warrants or options might be expected to exercise them at a time when we would, in all likelihood, be able to obtain any needed capital by a new offering of securities on terms more favorable than those provided by these warrants or options.

#### **Loss of key personnel could adversely affect our business.**

Our future success depends to a significant degree on the skills, experience and efforts of our executive officers, Samuel A. Kovnat, Chairman of the Board and Chief Executive Officer, William B. Cotton, Vice Chairman of the Board and President, Frank L. Rees, Executive Vice President and Director, David D. Cryer, Chief Financial Officer and Treasurer, C. Robert Knight, General Counsel, Vice President of Administration and Secretary, and Dr. Neal Fine, Senior Vice President for Technology. The sustained unavailability of any one or more of those individuals for any reason could have a material adverse impact on our operations and prospects.

At a recent meeting of our Board of Directors, Mr. Kovnat and Mr. Rees announced their intention to retire on November 30, 2007. The Board intends to develop an orderly plan of succession to appropriately carry the Company forward.

We anticipate hiring additional executive officers in the future. We may not be able to complete the hiring of these additional officers in a timely manner or at all. We also depend on the ability of our executive officers and other members of senior management to continue to work effectively as a team.

#### **Government regulation could adversely affect our business.**

As a result of receiving contract funding from the federal government and our involvement in the field of aviation, our business and operations are subject to numerous government laws and regulations. In the near term, and for so long as we receive funding from the federal government, we will be subject to many procurement and accounting rules and regulations of the federal government. We are also subject to periodic audits by the Defense Contract Audit Agency, or DCAA. To date, we are current on all D.C.A.A. required audits and our last audit for FY 2006 provisional rates was completed on October 31, 2005 and accepted as submitted. Reports have been issued by the D.C.A.A. to our government customer which have stated that we are performing in accordance with Federal Acquisitions Regulations. There is no assurance that any

of the results or contents of any future audits will portray us favorably. These rules and regulations are complex in nature and sometimes difficult to interpret or apply. Adherence to these rules is reviewed by participating agencies of the federal government. If such agencies suspect or believe that violations of procurement or accounting rules and regulations have occurred, they may refer such matters to other enforcement divisions of the federal government, such as the U.S. Attorney's Office or the Inspector General's office. If we violate these rules and regulations, even if unintentionally, we may have to pay fines and penalties or could be terminated from receiving further funding from the federal government. If we market, sell and install our products in foreign countries, the laws, rules and regulations of those countries, as well as certain laws of the United States, will apply to us. Existing as well as new laws and regulations of the United States and foreign countries which regulate aviation and airports could also adversely affect our business.

**Our success depends on our ability to protect our proprietary technology.**

Any failure by us to protect our intellectual property could harm our business and competitive position. For example, although we have sought patent protection for our technologies, the steps we have taken or intend to take with regard to protecting our technologies may not be adequate to defend and prevent misappropriation of our technology, including the possibility of reverse engineering and the possibility that potential competitors will independently develop technologies that are substantially equivalent or superior to our technology. Furthermore, any patent we have obtained or may obtain may subsequently be invalidated for any of a variety of reasons. In addition, even if we are issued a patent, we may not be able to gain any commercial advantage from such patent. Existing United States laws afford only limited intellectual property protection.

We intend to use a combination of patent, trade secret, copyright and trademark law, nondisclosure agreements, and technical measures to protect our proprietary technology. We intend to enter into confidentiality agreements with and obtain assignments of intellectual property from all of our employees, as well as with our clients and potential clients, and intend to limit access to and distribution of our technology, documentation and other proprietary information. However, the steps we take in this regard may not be adequate to deter misappropriation or independent third-party development of our technology. In addition, the laws of some foreign countries do not protect proprietary technology rights to the same extent as do the laws of the United States. If we resort to legal proceedings to enforce our intellectual property rights, the proceedings could be burdensome and expensive and could involve a high degree of risk to our proprietary rights if we are unsuccessful in such proceedings. Moreover, our financial resources may not be adequate to enforce or defend our rights in our technology. Additionally, any patents that we apply for or obtain may not be broad enough to protect all of the technology important to our business, and our ownership of patents does not in itself prevent others from securing patents that may block us from engaging in actions necessary to our business, products, or services.

**Other companies may claim that we infringe their intellectual property or proprietary rights.**

If our proprietary technology violates or is alleged to violate third party proprietary rights, we may be required to reengineer our technology or seek to obtain licenses from third parties to continue offering our technology without substantial reengineering. Any such efforts may not be successful or if successful could require payments that could have a material adverse effect on our profitability and financial condition. Any litigation involving infringement claims against us would be expensive and time-consuming, and an adverse outcome may result in payment of damages or injunctive relief that could materially and adversely affect our business.

**Under certain circumstances, the federal government may be able to use our SOCRATES®-related technologies or other technologies developed with government funding without payment to us.**

We have taken certain steps to preserve our rights in our SOCRATES®-related technologies under our contracts with the federal government.

However, as is the case with all research and development contracts funded by the federal government, the Federal Acquisition Regulations provide that, under certain circumstances, the federal government may have paid-up rights to use, or have used on its behalf, our SOCRATES®-related technologies or other technologies developed with government funding. We do not expect that the federal government will attempt to use our SOCRATES®-related technologies without compensating us. Nevertheless, if the federal government attempts to exercise these rights, it is difficult to predict what effect, if any, it may have on us. If the federal government succeeds in exercising these rights, it may have a material adverse effect on our business operations and financial performance, which could negatively affect the value of our stock.

**Our future customers, including the FAA, may not accept the price of or be able to finance our products.**

At present, we cannot precisely fix a price for the sale and installation of an initial SOCRATES® wake vortex sensor at airports or UNICORN™-based collision avoidance systems in small aircraft or TIICM™ in commercial airliners. We estimate that the cost of our SOCRATES® wake vortex sensor will be roughly \$9 million to \$20 million per airport installation, depending on, among other things, the number and configuration of runways. Due to developments in the market for general aviation collision warning and avoidance products and information we have obtained from our ongoing research, development and engineering of UNICORN™, we now expect the UNICORN™-based system could be more complex than we originally envisioned. As a result, we anticipate the wholesale price of this product could be approximately \$25,000 which is substantially greater than the \$10,000 price we have previously estimated. As we develop further information on the configuration and components of a UNICORN™-based

system for general aviation, related production costs, and rapidly evolving competitive technologies, we will reassess the potential market for a commercial UNICORN™-based collision avoidance system for general aviation. Our current goal is to use and build on the UNICORN™ research and development we have conducted to date for application to unmanned air vehicles, if we can obtain government funding for this purpose. While we have had discussions with the federal government in this regard, it is still too early to assess our prospects for obtaining such funding. Because we have not completed the research, development, and testing of either product or received final approvals for either of them from the federal government, we have not commenced production or marketing efforts. We currently do not anticipate having these products ready for commercial sale for at least several years. We therefore are not yet in a position to gauge the reaction of potential customers to the pricing of these products or future products and whether such potential customers will be able to afford and finance our products.

We believe that the increase in efficiency and safety to airports, airlines, and private aircraft resulting from our products will justify the substantial anticipated cost of sales and installation of these products. However, our customers' ability to afford such costs will depend, in part, on the health of the overall economy, the financial condition and budget priorities of the federal government, particularly the FAA and NASA, profitability of airports, airlines, and aircraft manufacturers, and the availability of private and government sources of funding to finance the sales and acquisition of our products. While a variety of potential funding sources exist, inability of the FAA, airlines or airports to access or obtain funding for purchase and installation of our products could have a material adverse impact on sales of our SOCRATES®, UNICORN™ or TIICM™ based products.

**We may experience long sales cycles.**

We expect to experience long time periods between initial sales contacts and the execution of formal contracts for our products and completion of product installations. The cycle from first contact to revenue generation in our business involves, among other things, selling the concept of our technology and products; developing and implementing a pilot program to demonstrate the capabilities and accuracy of our products; negotiating prices and other contract terms; and, finally, installing and implementing our products on a full-scale basis. We anticipate this cycle will entail a substantial period of time, on average between seven to twelve months, and the lack of revenue experienced during this cycle and the expenses involved in bringing new sales to the point of revenue generation would put a substantial strain on our resources.

**Our success will depend on our ability to create effective sales, marketing, production and installation forces.**

At present and for the near future, we will depend upon a relatively small number of employees and subcontractors to complete the research and development of our SOCRATES® wake vortex sensor and pursue research and development of other SOCRATES®, UNICORN™ and TIICM™ based products. The marketing and sales of these products will require us to find additional capable employees or subcontractors who can understand, explain, market, and sell our technology and products to airports, airlines, and airplane manufacturers. We also will need to assemble new personnel and/or contractors for production and installation of our products. Upon successful completion of research and development, these demands will require us to rapidly increase the number of our employees, vendors, and subcontractors. There is intense competition for capable personnel in all of these areas, and we may not be successful in attracting, integrating, motivating, or retaining new personnel, vendors, or subcontractors for these required functions.

**Our business could be adversely affected if our products fail to perform properly.**

Products and systems as complex as ours may contain undetected errors or "bugs," which result in system failures, or failure to perform in accordance with industry expectations. Despite our plans for quality control and testing measures, our products including any enhancements may contain such bugs or exhibit performance degradation, particularly during the early stages of installation, and deployment. Product or system performance problems could result in loss of or delay in revenue, loss of market share, failure to achieve market acceptance, adverse publicity, injury to our reputation, diversion of development resources and claims against us by governments, airlines, airline customers, and others.

**We could be subject to liability claims relating to malfunction of our technology.**

Sale of our products will depend on their ability to improve airport, airline, and airplane safety and efficiency. We will take great care to test our products and systems after installation and before actual operation to insure accuracy and reliability. The FAA acquires air traffic control equipment for U.S. airports, and typically assumes the principal product liability risk for such equipment. However, unforeseen problems, misuse, or changing conditions could cause our products and systems to malfunction or exhibit other operational problems. Such problems could cause, or be perceived to cause, airplane accidents, including passenger fatalities. We may receive significant liability claims if governments, airlines, airports, passengers and other parties believe that our systems have failed to perform their intended functions. Liability claims could require us to spend significant time and money in litigation, pay substantial damages, and incur increased insurance premiums, regardless of our responsibility for such failure. Although we plan to maintain liability insurance, such coverage may not continue to be available on reasonable terms or be available in amounts sufficient to cover one or more large claims, and the insurer may disclaim coverage as to any claim.

**We face significant competition from other companies.**

The air safety systems and air traffic control industries are already highly competitive. Other industry participants could develop or improve their own systems to achieve the cost efficiencies and value that we believe our products will provide upon successful completion of research and development. Additional companies may enter the market with competing systems as the size and visibility of the market opportunity increases. In addition, the government could cause us to compete against other companies for research and development or production and deployment of our SOCRATES® wake vortex sensor, when and if we successfully complete its development. Many of our potential competitors have longer operating histories, greater name recognition, substantially greater financial, technical, marketing, management, service, support, and other resources than we do. Therefore, they may be able to respond more quickly than we can to new or changing opportunities, technologies, standards, or customer requirements. Competition could reduce our revenues and margins and have a material adverse effect on our operations.

New products or technologies will likely increase the competitive pressures that we face. Increased competition could result in pricing pressures, reduced margins, or the failure of our products to achieve or maintain market acceptance. The development of competing products or technologies by market participants or the emergence of new industry or government standards may adversely affect our competitive position. As a result of these and other factors, we may be unable to compete effectively with current or future competitors. Such inability would likely have a material adverse effect on our business, financial condition, or results of operations.

**Rapid technological change could render our systems obsolete.**

Our business in general is characterized by rapid technological change, frequent new product and service introductions and enhancements, uncertain product life cycles, changes in customer requirements, and evolving industry standards which make us susceptible to technological obsolescence. The introduction of new products embodying new technologies, the emergence of new industry standards, or improvements to existing technologies could render our products and systems obsolete or relatively less competitive. Our future success will depend upon our ability to continue to develop and introduce a variety of new products and to address the increasingly sophisticated needs of our customers. We



may experience delays in releasing new products and systems or enhancements in the future. Material delays in introducing new products and systems or enhancements may cause customers to forego purchases of our products and systems and purchase products and systems of competitors instead.

**Failure to properly manage growth could adversely affect our business.**

To implement our strategy, we believe that we will have to grow rapidly. Rapid growth may strain our management, financial, and other resources. To manage any future growth effectively, we must expand our sales, marketing, production, installation, and customer support organizations, invest in research and development of new products or enhancements to existing

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systems that meet changing customer needs, enhance our financial and accounting systems and controls, integrate new personnel or contractors, and successfully manage expanded operations. We may not be able to effectively manage and coordinate our growth so as to achieve or maximize future profitability.

**We must hire and retain skilled personnel.**

Our success depends in large part upon our ability to attract, train, motivate, and retain highly skilled employees, particularly sales and marketing personnel, scientists, engineers, and other technical support personnel. Our failure to attract and retain the highly trained technical personnel that are integral to our direct sales, product development, installation, support, and professional services may limit the rate at which we can generate sales or develop new products or system enhancements, which could have a material adverse effect on our business, financial condition, or results of operations.

**Any acquisition we make could disrupt our business and harm our financial condition.**

We may attempt to acquire businesses or technologies that we believe are a strategic fit with our business. We currently have no commitments for any acquisition. Any future acquisition may result in unforeseen operating difficulties and expenditures, and may absorb significant management attention that would otherwise be available for ongoing development of our business. Since we may not be able to accurately predict these difficulties and expenditures, these costs may outweigh the value we realize from a future acquisition. Future acquisitions could result in issuances of equity securities that would reduce our stockholders' ownership interest, the incurrence of debt, contingent liabilities, amortization of expenses related to other intangible assets and the incurrence of large, immediate write-offs.

**You should carefully read and evaluate this entire Form 10-KSB and our current SEC filings including the risks it describes and not consider or rely upon any statement, information or opinion about us that is not contained in this Form 10-KSB and our current SEC filings.**

Certain statements, information and opinions about us have appeared and may continue to appear in published news reports, analysts' reports, other media sources and our web site. Some of the information contained in these reports or sources may not be material to understanding our business or may be out of date, erroneous or inconsistent with that disclosed in this Form 10-KSB and our current SEC filings. In making a decision to invest in our securities, you should not rely upon any of these statements, information or opinions and should only rely upon, consider and carefully evaluate the information and risks contained in this Form 10-KSB and our current SEC filings.

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**We may suffer losses from various investments that we make and related market risks.**

From time to time, we may make various types of investments which include, but may not be limited to, acquisitions of other companies, strategic transactions and joint ventures, repurchase of our shares, and general investment of our available cash in various types of debt and equity securities. Some of these investments, such as acquisitions or joint ventures, may involve a high degree of risk and we could lose the entire amount of our investment. Other investments are intended to be conservative, e.g., investment of cash reserves in high quality bonds or equity funds, but are subject to judgments about many factors beyond our control which can adversely affect these types of investments. For example, a rise in such interest rates will adversely affect the value of fixed income securities we hold and we may incur a loss of principal if we have to sell under such conditions. A decline in interest rates may reduce our investment income. We attempt to be prudent in making any of the foregoing investments, which are reviewed and approved by management and our board of directors. These types of transactions are necessary and important for the success of our overall business and our efforts to create value for our shareholders. However, we have suffered

losses on certain of these investments and can make no assurance that we will not suffer losses in the future. Any such losses could have a material adverse impact on our results of operations and cash available to support our operations and investment in research and development.

### **Risks Related to Investment in Our Securities**

#### **The price of our securities could be volatile and subject to wide fluctuations.**

The market price of the securities of a pre-commercial, research and development stage aviation technology company, such as ours, can be especially volatile. Thus, the market price of our securities could be subject to wide fluctuations. In fact, the trading volume and price of our shares have fluctuated greatly. Subject to the information set forth in this Form 10-KSB, we are unaware of any specific reasons for this volatility and cannot predict whether or for how long it will continue.

If our revenues do not grow or grow more slowly than we anticipate, we are unable to procure federal contracts for our SOCRATES® wake vortex sensor UNICORN™ or TIICM™ research and development, we encounter technical or engineering obstacles to the successful commercial development of SOCRATES®, UNICORN™ or TIICM™, our operating or capital expenditures exceed our expectations and cannot be adjusted accordingly, or if some other event adversely affects us, the market price of our securities could decline. In addition, if the market for aviation technology stocks or the stock market in general experiences a loss in investor confidence or otherwise fails, the market price of our securities could fall for reasons unrelated to our business, results of operations, and financial condition. The market price of our securities also might decline in reaction to events that affect other companies in our industry even if these events do not directly affect us. Furthermore, the sale in the open market of recently sold securities or newly issued securities, which we may sell from time to time to raise funds for various purposes, and securities issuable upon the exercise of purchase rights under existing options and warrants may place downward pressure on the market price of our securities.

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Speculative traders may anticipate a decline in the market price of our securities and engage in short sales of our securities. Such short sales could further negatively affect the market price of our securities.

#### **Litigation could adversely affect our operating results and financial condition.**

Companies that have experienced volatility in the market price of their stock have been the subject of securities class action litigation. We and our Chairman and Chief Executive Officer and President are defendants in pending class action litigation that alleges violations of federal securities laws and breach of fiduciary duties. A second case alleges contractual interference relating to the development of TIICM™. We firmly believe that the claims contained in both complaints are without merit and intend to conduct a vigorous defense in these matters. However, defending against existing and potential litigation will likely require significant attention and resources and, regardless of the outcome, result in significant legal expenses, which will adversely affect our results unless covered by insurance or recovered from third parties. If our defenses are ultimately unsuccessful, or if we are unable to achieve a favorable resolution, we could be liable for damage awards that could materially adversely affect our results of operations and financial condition.

#### **An active trading market for our securities may not be developed or sustained which could limit the liquidity of an investment in our securities.**

There is a limited trading market for our securities which are currently trading on the American Stock Exchange. There is no assurance that we will be able to continue to meet the listing requirements and that our securities will remain listed on the American Stock Exchange. If we are delisted from the American Stock Exchange, an investor could find it more difficult to dispose of, or to obtain accurate quotations as to the market value of, our securities. Additionally, regardless of which exchange our securities may trade on, an active and liquid trading market may not develop or, if developed, may not be sustained, which could limit security holders' ability to sell our securities at a desired price.

#### **If any of our securities are delisted from the American Stock Exchange, we may be subject to the risks relating to penny stocks.**

If any of our securities were to be delisted from trading on the American Stock Exchange and the trading price of such security remains below \$5.00 per share on the date such security was delisted, trading in such security would also be subject to the requirements of certain rules promulgated under the Securities Exchange Act of 1934. These rules require additional disclosure by broker-dealers in connection with any trades involving a security defined as a penny stock and impose various sales practice requirements on broker-dealers who sell penny

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stocks to persons other than established customers and accredited investors, generally institutions. The additional burdens imposed upon broker-dealers by such requirements may discourage broker-dealers from effecting transactions in our securities, which could severely limit the market price and liquidity of such securities and the ability of purchasers to sell our securities in the secondary market. A penny stock is

defined generally as any non-exchange listed equity security that has a market price of less than \$5.00 per share, subject to certain exceptions.

**A large number of shares may be sold in the market following our February 2004 public offering which may cause the price of our securities to decline.**

Sales of a substantial number of shares of our common stock or other securities in the public markets, or the perception that these sales may occur, could cause the market price of our common stock or other securities to decline and could materially impair our ability to raise capital through the sale of additional securities. We have 8,215,210 shares of our common stock outstanding. Of our outstanding shares, 6,469,972 are eligible for public trading.

**Certain events could result in a dilution of your ownership of our common stock.**

As of May 31, 2006, we have 8,215,210 shares of common stock and an aggregate of 3,805,300 warrants and options outstanding. The exercise price of all of our common stock equivalents ranges from \$3.30 to \$6.00 per share of common stock. Some of these warrants and options may provide anti-dilution protection to their holders which would result in our issuance of shares in addition to those under the warrant or option, upon the occurrence of sales of our common stock below certain prices, stock splits, redemptions, mergers, and other similar transactions. Furthermore, from time to time we may issue additional shares of common stock in private or public transactions to raise funds for working capital, research and development, acquisitions, or other purposes. If one or more of these events occurs, the number of outstanding shares of our common stock would increase and dilute your percentage ownership of our common stock.

**If we do not maintain an effective registration statement or comply with applicable state securities laws, you may not be able to exercise our public warrants.**

For any holder to be able to exercise our public warrants, the shares of our common stock underlying the public warrants must be covered by an effective and current registration statement and qualify or be exempt under the securities laws of the state or other jurisdiction in which you live. We cannot assure you that we will continue to maintain a current registration statement relating to the shares of our common stock underlying our public warrants or that an exemption from registration or qualification will be available throughout their term. This may have an adverse effect on demand for our public warrants and the prices that can be obtained from reselling them.

**Our public warrants may be redeemed on short notice. This may have an adverse impact on their price.**

We may redeem our public warrants for \$0.25 per warrant, subject to adjustment in the event of a stock split, dividend or the like, upon 30 days' notice so long as the last reported sale price per share of our common stock as reported by the principal exchange or trading market on which our common stock trades equals or exceeds \$10.00 (subject to adjustment) for twenty consecutive trading days ending on the tenth day prior to the date we give notice of redemption. If we give notice of redemption, holders of our public warrants will be forced to sell or exercise the public warrants they hold or accept the redemption price. The notice of redemption could come at a time when, under specific circumstances or generally, it is not advisable or possible to sell or exercise our public warrants.

**Our officers, directors and 5% stockholders will exercise significant control over us.**

Our current officers, directors and 5% stockholders, in the aggregate, control approximately 38.40% of our outstanding common stock (including common stock issuable to such person or group within 60 days after May 31, 2006). As a result, these stockholders acting together will be able to exert significant control over matters requiring stockholder approval, including the election of directors, approval of mergers, and other significant corporate transactions. This concentration of ownership could delay, prevent, or deter a change in control, and could deprive our stockholders of an opportunity to receive a premium for their stock as part of a sale of us and could affect the market price of our stock.

**We do not intend to pay cash dividends.**

We have never paid cash dividends on our stock and do not anticipate paying any cash dividends in the foreseeable future.

**We may spend our funds in ways with which our stockholders may not agree.**

The use of proceeds description from our recent public offering reflected our then-current planning and was only an estimate that is subject to change in our discretion. Furthermore, a substantial portion of the net proceeds from our recent public offering was not allocated for specific uses. Consequently, our management can spend our funds in ways with which our stockholders may not agree. We cannot predict that our funds will be invested or otherwise utilized to yield a favorable return.

**Item 7. Financial Statements.**

The audited financial statements are annexed to this report, commencing on page F-1.

**Item 8. Changes In and Disagreements With Accountants on Accounting and Financial Disclosure.**

None

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**Item 8A. Controls and Procedures.**

- (a) ***Evaluation of disclosure controls and procedures.*** Our chief executive officer and chief financial officer have reviewed and evaluated the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15 and 15d-15 under the Securities Exchange Act of 1934 (the "Exchange Act")) as of the end of the period covered by this annual report. Based on that evaluation, the chief executive officer and chief financial officer have concluded that our current disclosure controls and procedures are effective to ensure that information required to be disclosed by us in reports that we file or submit under the Exchange Act are recorded, processed, summarized, and reported within the time periods specified in the Securities and Exchange Commission rules and forms.
- (b) ***Changes in internal controls.*** There have not been any significant changes in our internal controls or in other factors that could significantly affect these controls subsequent to the date of their evaluation. There were no significant deficiencies or material weaknesses in the internal controls, and therefore no corrective actions were taken.

**Item 8B. Other Information.**

None

**PART III**

**Item 9. Directors, Executive Officers, Promoters and Control Persons; Compliance With Section 16(a) of the Exchange Act.**

Information about our Directors is incorporated by reference from the information under the caption "Proposal No. 2 - Election of Directors" and "Section 16 Beneficial Ownership Reporting Compliance" in our Proxy Statement for our 2006 Annual Meeting of Stockholders to be filed on or before September 22, 2006.

**Item 10. Executive Compensation.**

Incorporated by reference from the information under the caption "Executive and Director Compensation" in our Proxy Statement for the 2006 Annual Meeting of Stockholders to be filed on or before September 22, 2006.

**Item 11. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters.**

Incorporated by reference from the information under the caption "Stock Ownership of Certain Beneficial Owners, the Board of Directors, and Executive Officers" in our Proxy Statement for the 2006 Annual Meeting of Stockholders to be filed on or before September 22, 2006.

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**Item 12. Certain Relationships and Related Transactions.**

Incorporated by reference from the information under the captions "Certain Relationships and Related Transactions" in our Proxy Statement for the 2006 Annual Meeting of Stockholders to be filed on or before September 22, 2006.

**Item 13. Exhibits.**

<u>Exhibit</u> <u>No.</u>	<u>Description</u>
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- 3.1 Amended and Restated Articles of Incorporation (1)
- 3.2 By-Laws (2)
- 10.1 Employment Agreement effective as of November 4, 2003, between Flight Safety Technologies, Inc. and Samuel A. Kovnat (3)
- 10.2 Employment Agreement effective as of November 4, 2003, between Flight Safety Technologies, Inc. and William B. Cotton (4)
- 10.3 Employment Agreement effective as of November 4, 2003, between Flight Safety Technologies, Inc. and David D. Cryer (5)
- 10.4 Employment Agreement effective as of November 4, 2003, between Flight Safety Technologies, Inc. and Frank L. Rees (6)
- 10.5 Teaming Agreement dated May 1, 1997, by and between FSTO and Lockheed Martin Corporation (7)
- 10.6 Share Exchange Agreement between Reel Staff, Inc. and Flight Safety Technologies, Inc., dated June 24, 2002, as amended July 15, 2002 (8)
- 10.7 Cost Reimbursement Research Project Agreement between Flight Safety Technologies, Inc. and Georgia Tech Applied Research Corporation (9)
- 10.8 Phase III Contract issued by U.S. Department of Transportation/RSPA/Volpe Center, dated September 30, 2003 (10)
- 10.9 Agreement between Flight Safety Technologies, Inc. and Advanced Acoustics Concepts, Inc., dated January 14, 2000 (11)
- 10.10 \*Employment Agreement effective as of June 23, 2005, between Flight Safety Technologies, Inc. and C. Robert Knight
- 10.11 \*Phase IV Contract issued by U.S. Department of Transportation/RITA/Volpe Center, dated September 1, 2005
- 23 \*Consent of Wolf & Company, P.C.
- 31.1 \*Chief Executive Officer Certification as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (18 U.S.C. Section 1350).
- 31.2 \*Chief Financial Officer Certification as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (18 U.S.C. Section 1350).
- 32.1 \*Certification of Chief Executive Officer and Chief Financial Officer as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (18 U.S.C. Section 1350).

\*Submitted herewith

- (1) Incorporated by reference to Exhibit 3.1 on our Form 10-QSB, which was filed on April 6, 2004.
- (2) Incorporated by reference to Exhibit 3.2 on our Form SB-2, which was filed on August 9, 2001.
- (3) Incorporated by reference to Exhibit 10.1 on our Form SB-2/A, which was filed on January 29, 2004.
- (4) Incorporated by reference to Exhibit 10.2 on our Form SB-2/A, which was filed on January 29, 2004.
- (5) Incorporated by reference to Exhibit 10.3 on our Form SB-2/A, which was filed on January 29, 2004.
- (6) Incorporated by reference to Exhibit 10.4 on our Form 10-QSB, which was filed on April 6, 2004.
- (7) Incorporated by reference to Exhibit 10.7 on our 8-KA, which was filed on November 6, 2002.
- (8) Incorporated by reference to Exhibit 10.1 on our Form 8-K, which was filed on July 18, 2002.
- (9) Incorporated by reference to Exhibit 10.7 on our Form SB-2/A, which was filed on November 26, 2003.
- (10) Incorporated by reference to Exhibit 10.8 on our Form SB-2/A, which was filed on November 26, 2003.
- (11) Incorporated by reference to Exhibit 10.9 on our Form SB-2/A, which was filed on November 26, 2003.

#### **Item 14. Principal Accountant Fees and Services.**

Incorporated by reference from the information under the captions "Audit and Related Fees" in our Proxy Statement for the 2006 Annual Meeting of Stockholders to be filed on or before September 22, 2006.

#### **SIGNATURES**

In accordance with Section 13 or 15(d) of the Exchange Act, the registrant caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Flight Safety Technologies, Inc.  
a Nevada corporation

September 6, 2006

By: /s/ Samuel A. Kovnat



Samuel A. Kovnat  
Chairman and Chief Executive Officer

**POWER OF ATTORNEY**

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Samuel A. Kovnat, his attorneys-in-fact, each with the power of substitution, for him in any and all capacities, to sign any amendments to this Report on Form 10-KSB, and to file the same, with Exhibits thereto and other documents in connection therewith with the Securities and Exchange Commission, hereby ratifying and confirming all that each of said attorneys-in-fact, or substitute or substitutes may do or cause to be done by virtue hereof.

In accordance with the Exchange Act, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Signature

Date

/s/ William B. Cotton

September 6, 2006



William B. Cotton, Director, President

/s/ Frank L. Rees

September 6, 2006



Frank L. Rees, Director, Executive Vice President

/s/ David D. Cryer

September 6, 2006

[REDACTED]  
David D. Cryer, Chief Financial Officer, Treasurer

/s/ C. Robert Knight

September 6, 2006

[REDACTED]  
C. Robert Knight, Secretary, Vice President of Administration/  
General Counsel

/s/ Kenneth S. Wood

September 6, 2006

[REDACTED]  
Kenneth S. Wood, Director

/s/ Jackson Kemper

September 6, 2006

[REDACTED]  
Jackson Kemper, Director

/s/ Larry L. Pressler

September 6, 2006

[REDACTED]  
Larry L. Pressler, Director

/s/ Joseph J. Luca

September 6, 2006

[REDACTED]  
Joseph J. Luca, Director

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**FLIGHT SAFETY TECHNOLOGIES, INC.**

**Index to the Audited Financial Statements**

**For the Years Ended May 31, 2006 and 2005**

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders  
Flight Safety Technologies, Inc.  
Mystic, Connecticut

We have audited the accompanying balance sheets of Flight Safety Technologies, Inc. as of May 31, 2006 and 2005, and the related statements of operations and comprehensive income (loss), changes in stockholders' equity and cash flows for the years then ended. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An



audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Flight Safety Technologies, Inc. as of May 31, 2006 and 2005, and the results of its operations and its cash flows for the years then ended, in conformity with accounting principles generally accepted in the United States of America.

/s/ Wolf & Company, P.C.

Boston, Massachusetts

July 18, 2006

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**FLIGHT SAFETY TECHNOLOGIES, INC.**

**Balance Sheets  
as of  
May 31, 2006 and 2005**

	<u>2006</u>	<u>2005</u>
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 145,572	\$ 494,837
Contract receivables	130,001	415,617
Investments available for sale, at fair value	1,661,919	2,860,233
Investments held to maturity	4,337,907	4,033,759
Inventory	108,044	108,044
Other current assets	<u>264,750</u>	<u>51,721</u>
Total current assets	<u>6,648,193</u>	<u>7,964,211</u>

Property and equipment, net of accumulated depreciation of \$418,656 and \$328,608	<u>181,606</u>	<u>208,562</u>
Other Assets:		
Intangible assets, net of accumulated amortization of \$65,330 and \$47,377	230,750	180,562
Investments held to maturity	--	500,002
Other receivables	<u>96,673</u>	<u>330,010</u>
Total other assets	<u>327,423</u>	<u>1,010,574</u>
<b>Total Assets</b>	<b>\$ <u>7,157,222</u></b>	<b>\$ <u>9,183,347</u></b>

#### Liabilities and Stockholders' Equity

##### Current liabilities:

Accounts payable	\$ 603,538	\$ 589,313
Accrued expenses	<u>228,427</u>	<u>180,340</u>
Total current liabilities	<u>831,965</u>	<u>769,653</u>

##### Stockholders' equity:

Preferred Stock, \$0.001 par value, 5,000,000 shares authorized, none issued and outstanding	- ---	- ---
Common stock, \$0.001 par value, 50,000,000 shares authorized, 8,331,510 shares issued at May 31, 2006 and 8,331,410 at May 31, 2005	8,332	8,331
Additional paid-in-capital	13,070,192	13,069,863
Treasury Stock, 116,300 shares at cost	(199,827)	(199,827)
Accumulated other comprehensive loss	--	(164,023)
Unearned stock compensation	--	(4,769)
Accumulated deficit	<u>(6,553,440)</u>	<u>(4,295,881)</u>
Total stockholders' equity	<u>6,325,257</u>	<u>8,413,694</u>
<b>Total Liabilities and Stockholders' Equity</b>	<b>\$ <u>7,157,222</u></b>	<b>\$ <u>9,183,347</u></b>

The accompanying notes are an integral part of these financial statements

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#### FLIGHT SAFETY TECHNOLOGIES, INC.

#### Statements of Operations and Comprehensive Income (Loss) For the Years Ended May 31, 2006 and 2005

	<u>2006</u>	<u>2005</u>
Contract Revenues	\$ 3,869,962	\$ 3,310,871
Cost of Revenues	<u>2,369,311</u>	<u>2,233,773</u>
Gross Profit	<u>1,500,651</u>	<u>1,077,098</u>

Operating Expenses		
Research and development	1,054,278	557,137
Selling, general and administrative	2,592,745	2,001,871
Depreciation and amortization	<u>108,001</u>	<u>125,660</u>
Total Operating Expenses	<u>3,755,024</u>	<u>2,684,668</u>
Loss From Operations	(2,254,373)	(1,607,570)
Other Income (Expense)		
Interest income	283,951	223,586
Loss on investments available for sale	<u>(262,337)</u>	<u>--</u>
Loss Before Provision For Income Taxes	(2,232,759)	(1,383,984)
Provision for income taxes	<u>24,800</u>	<u>27,660</u>
Net Loss	(2,257,559)	(1,411,644)
Other Comprehensive Income (Loss)		
Unrealized (loss) on investments	(98,314)	(44,522)
Less: reclassification adjustment for loss included in net income	<u>262,337</u>	<u>--</u>
Comprehensive Income (Loss)	<u>\$(2,093,536)</u>	<u>\$(1,456,166)</u>
Net Loss Per Share		
Basic and diluted	\$ (.27)	\$ (.17)
Weighted Average Number of Shares Outstanding		
Basic and diluted	8,215,168	8,217,971

The accompanying notes are an integral part of these financial statements

**FLIGHT SAFETY TECHNOLOGIES, INC.**

**Statements of Changes in Stockholders' Equity  
For Years Ended May 31, 2006 and 2005**

Common Stock	Additional Paid-In	Treasury	Accumulated Other Comprehensive	Unearned Stock	Accumulated	Total Stockholders'
-----------------	-----------------------	----------	---------------------------------------	-------------------	-------------	------------------------

	Shares	Amount	Capital	Stock	Loss	Compensation	Deficit	Equity
Balance at May 31, 2004	8,331,410	\$ 8,331	\$ 13,105,863	\$ ---	\$ (119,501)	\$ (150,733)	\$ (2,884,237)	\$ 9,959,723
Unearned Stock Compensation	---	---	(36,000)	---	---	145,964	---	109,964
Unrealized Losses on Securities					(44,522)			(44,522)
Purchase of Treasury Stock	--	--	--	(199,827)	--	--	--	(199,827)
Net Loss	---	---	---	---	---	---	<u>(1,411,644)</u>	<u>(1,411,644)</u>
Balance at May 31, 2005	8,331,410	\$ 8,331	\$ 13,069,863	\$ (199,827)	\$ (164,023)	\$ (4,769)	\$ (4,295,881)	\$ 8,413,694
Unearned Stock Compensation	---	---	---	---	---	4,769	---	4,769
Warrants Exercised	100	1	329	---	---	---	---	330
Unrealized Losses on Securities, Net of Reclassification Adjustment	---	---	---	--	164,023	---	---	164,023
Net Loss	---	---	---	---	---	---	<u>(2,257,559)</u>	<u>(2,257,559)</u>
Balance at May 31, 2006	<u>8,331,510</u>	\$ <u>8,332</u>	\$ <u>13,070,192</u>	\$ <u>(199,827)</u>	\$ --	\$ --	\$ <u>(6,553,440)</u>	\$ <u>6,325,257</u>

The accompanying notes are an integral part of these financial statements

**FLIGHT SAFETY TECHNOLOGIES, INC.**

**Statements of Cash Flow  
For Years Ended May 31, 2006 and 2005**

	<u>2006</u>	<u>2005</u>
Cash flows from operating activities:		
Net loss	\$(2,257,559)	\$ (1,411,644)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization	108,001	125,660
Non-cash compensation - common stock	4,769	109,964
Loss on investments available for sale	262,337	--
Accretion of investment discounts	(150,522)	(87,785)
Changes in operating assets and liabilities:		
Decrease in contract receivables	285,616	116,426
(Increase) decrease in other receivables	233,337	(135,531)
(Increase) in other current assets	(213,029)	(22,881)
(Increase) in inventory	--	(108,044)
Increase in accounts payable and accrued expenses	<u>62,312</u>	<u>12,483</u>
Net cash used in operating activities	<u>(1,664,738)</u>	<u>(1,401,352)</u>
Cash flows from investing activities:		
Purchase of available for sale securities	--	(2,025,000)
Proceeds from sale of available for sale securities	1,100,000	1,000,000
Purchase of held to maturity securities	(16,421,264)	(9,004,305)
Proceeds from maturity of held to maturity securities	16,767,640	10,050,000
Purchases of property and equipment	(63,092)	(61,562)
Payments for patent costs	<u>(68,141)</u>	<u>(43,980)</u>
Net cash provided by (used in) investing activities	<u>1,315,143</u>	<u>(84,847)</u>
Cash flows from financing activities:		
Purchase of treasury stock	--	(199,827)
Proceeds from warrants exercised	<u>330</u>	=
Net cash provided by (used in) financing activities	<u>330</u>	<u>(199,827)</u>
Net (decrease) in cash and cash equivalents	(349,265)	(1,686,026)
Cash and cash equivalents at beginning of year	<u>494,837</u>	<u>2,180,863</u>
Cash and cash equivalents at end of year	<u>\$ 145,572</u>	<u>\$ 494,837</u>

The accompanying notes are an integral part of these financial statements

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**FLIGHT SAFETY TECHNOLOGIES, INC.****Notes To The Financial Statements  
For The Years Ended May 31, 2006 and 2005****Note 1 - Summary of Significant Accounting Policies**

Significant accounting policies followed by Flight Safety Technologies, Inc. (the Company) in determining financial position and the results of operations are as follows:

**(a) Nature of Business**

The Company is engaged in the development of three proprietary sensor technologies: SOCRATES®, UNICORN™ and TIICM™.

SOCRATES® (Sensor for Optically Characterizing Ring-eddy Atmospheric Turbulence Emanating Sound) is designed to detect clear air turbulence, microbursts and aircraft generated vortices which result in hazardous conditions to safe air travel.

UNICORN™ (Universal Collision Obviation and Reduced Near-Miss) is a technology that is being designed based upon an arrangement of radar which gives both visual and audible warning indication of approaching aircraft to pilots.

TIICM (Tactical Integrated Illuminating Countermeasure) is a possible solution to the threat of ground fired and hand held missile being fired on aircraft by terrorists.

On May 29, 1997, the Company was awarded its first contract representing Phase I, Task Order No: 0001, in the amount of \$1,326,335, sponsored by the Federal Aviation Administration (FAA), to commence the development and "Proof-of-Principle" of SOCRATES®. Since our initial SOCRATES® funding the company has been awarded contracts for the development of our SOCRATES® Technology totaling \$19,820,973. Our funded contract backlog as of May 31, 2006 was \$1,211,484.

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**FLIGHT SAFETY TECHNOLOGIES, INC.  
Notes To The Financial Statements  
For The Years Ended May 31, 2006 and 2005****Note 1 - Summary of Significant Accounting Policies (continued)**

The Company's Federal contract, which represents 96% and 99% of the revenues for 2006 and 2005, respectively, was issued and is managed by The Volpe Center of the U.S. Department of Transportation. The Company submits, and receives payment on, monthly invoices which

represent progress payments covering the Company's total direct and indirect costs on the project.

The Company's primary office is in Mystic, Connecticut, and it also has offices in Baltimore, Maryland; Austin, Texas; and North Kingstown, Rhode Island. In addition to its full-time employees, the Company is further supported by a team of consultants and subcontractors, including Lockheed Martin Corporation, with whom the Company has a long-term Teaming Agreement, ICF Consulting Services, British Telecommunications, Information Systems Laboratories, Microwave Solutions and Georgia Tech Applied Research Corporation.

(b) Revenue and Cost Recognition

Our contracts with the United States government are cost-reimbursable contracts that provide for a fixed profit percentage (base fee), applied to our actual costs to complete the work. These contracts are subject to audit and adjustment by our customer, and are subject to cost limitations as provided by the contract.

For these contracts, revenue is recorded at the time services are performed based upon actual project costs incurred including a reimbursement for general, administrative, and overhead costs and the base fee. The general, administrative, and overhead costs are estimated periodically in accordance with government contract accounting regulations and may change based on actual costs incurred subject to approval. Revenue may be adjusted for our estimate of costs that may be categorized as disputed or unallowable as a result of cost overruns or the audit process. Project costs include all direct material, labor and subcontracting costs. General and administrative costs are charged to expense as incurred. Provisions for estimated losses on uncompleted contracts are made in the period in which such losses are determined. Changes in job performance, job conditions and estimated profitability and final contract settlements may result in revisions to chargeable costs and revenue recorded and are recognized in the period in which the revisions are determined. Revenue related to additional claims under the contract is recorded at the lesser of actual costs incurred or the amount expected to be realized.

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**FLIGHT SAFETY TECHNOLOGIES, INC.**  
**Notes To The Financial Statements**  
**For The Years Ended May 31, 2006 and 2005**

**Note 1 - Summary of Significant Accounting Policies (continued)**

The Company participates in teaming agreements where it is the primary contractor and participates with other organizations to provide services to the Federal government. The Company has managerial and oversight responsibility for team members as well as the responsibility for the ultimate acceptability of performance under the contract. Accordingly, the Company includes as revenues the amounts that it bills under the teaming arrangements and includes as direct costs amounts that are reimbursable or paid to team members.

(c) Cash and Cash Equivalents

For purposes of reporting cash flows the Company considers all highly liquid investments with maturities of three months or less at the date of purchase to be cash and cash equivalents.

As of May 31, 2005 the Company classified auction rate securities as cash equivalents. Pursuant to guidance issued by the Securities and Exchange Commission, the Company has reclassified these investments to investments available for sale for all periods presented. This reclassification has no effect on reported income, total assets, or equity.

(d) Marketable Securities

The Company classifies its debt and marketable equity securities into held-to-maturity, trading, or available-for-sale categories according to the provisions of Financial Accounting Standards Board Statement No. 115, "Accounting for Certain Investments in Debt and Equity Securities". Debt securities are classified as held-to-maturity when the Company has the positive intent and ability to hold the securities to maturity. Held-to-maturity securities are recorded as either short-term or long-term on the balance sheet based on contractual maturity date and are stated at amortized cost. Marketable securities that are bought and held principally for the purpose of selling them in the near term are classified as trading securities and are reported at fair value, with unrealized gains and losses recognized in earnings. Debt and marketable equity securities not classified as held-to-maturity or as trading are classified as available-for-sale and are carried at fair market value, with the unrealized gains and losses, net of tax, included in the determination of comprehensive income or loss and reported in shareholders' equity. Realized gains and losses on sale of investments are determined on a specific identification basis.

**FLIGHT SAFETY TECHNOLOGIES, INC.**  
**Notes To The Financial Statements**  
**For The Years Ended May 31, 2006 and 2005**

**Note 1 - Summary of Significant Accounting Policies (continued)**

Management evaluates securities for other-than-temporary impairment at least on a quarterly basis and more frequently when economic or market conditions warrant such evaluation. Consideration is given to (1) the length of time and the extent to which the fair value has been less than cost, (2) the financial condition and near-term prospects of the issuer, and (3) the intent and ability of the Company to retain its investment in the issuer for a period of time sufficient to allow for any anticipated recovery in fair value. Securities that have experienced an other-than-temporary decline in value are written down to estimated fair value, establishing a new cost basis with the amount of the write-down expensed as a realized loss.

(e) Inventory

Inventory consists of long lead SOCRATES® system components purchased to further expand the system. Inventory is accounted for at lower of cost or market, with cost determined on the first-in first-out basis.

(f) Property and Equipment

Property and equipment are stated at cost less accumulated depreciation. Depreciation is computed using the straight-line method. Cost and accumulated depreciation of assets retired or disposed of are removed from the accounts. Gains and losses are recognized upon disposal of assets. The cost of maintenance and repairs is charged to operations as incurred, whereas significant repairs are capitalized.

Estimated useful lives by asset class are as follows:

Machinery & equipment	5 years
Furniture & fixtures	5 years
Automobiles	5 years
Software	3 years

(g) Intangible Assets

Intangible assets consist of patent costs associated with SOCRATES®, UNICORN™ and TIICM™. Costs of outside legal counsel related to obtaining new patents are capitalized. Patent costs are being amortized using the straight-line method over the lesser of seventeen years from the date incurred or the remaining life of the underlying patent.

**FLIGHT SAFETY TECHNOLOGIES, INC.**  
**Notes To The Financial Statements**  
**For The Years Ended May 31, 2006 and 2005**

**Note 1 - Summary of Significant Accounting Policies (continued)**

In accordance with Statement of Financial Accounting Standards No. 144, "Accounting for Impairment or Disposal of Long-Lived Assets" (SFAS No. 144) the Company assesses its patents for impairment whenever events or changes in circumstances indicate their carrying value may not be recoverable. Such circumstances may include a significant adverse change in legal factors or the business climate that could affect the value of the patents. In determining recoverability, the Company must determine the asset's fair value, which may require Management to make significant assumptions about the future cash generating ability of the asset. If an asset is determined to be impaired, the difference between the asset's fair value and book value is charged to expense in the period the impairment is identified. After an impairment loss is recognized, the adjusted carrying amount of the intangible asset becomes its new basis. Subsequent reversal of a previously recognized impairment loss is prohibited under SFAS No. 144.



(h) Concentration of Credit Risk

The Company had amounts in excess of \$100,000 in a single bank during the year. Amounts over \$100,000 are not covered by the Federal Deposit Insurance Corporation. Concentration of credit risk also exists with respect to investment securities and contract receivables. The concentrated risk associated with contract receivables is mitigated by the fact that these receivables are due from the United States Government. The risk for investment securities is mitigated by an Investment Policy which, approved by the Board of Directors, restricts investing in fixed income securities below an "A" rating at the time of purchase and investments in asset backed securities, mortgage backed securities and collateralized mortgage obligations below a "AAA" rating at the time of purchase.

(i) Research and Development

Company sponsored research and development costs, including proposal costs and un-reimbursed expenditures for developmental activities, are charged to operations as incurred.

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**FLIGHT SAFETY TECHNOLOGIES, INC.**  
**Notes To The Financial Statements**  
**For The Years Ended May 31, 2006 and 2005**

**Note 1 - Summary of Significant Accounting Policies (continued)**

(j) Income Taxes

The Company uses the asset and liability method of accounting for income taxes. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax basis. A valuation allowance is provided on deferred tax assets when it is more likely than not that some portion of the assets will not be realized. Deferred tax assets and liabilities are measured using enacted income tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in the period of enactment.

(k) Per Share Data

Basic loss per share is computed by dividing net loss by the weighted average number of shares of common stock outstanding during the period. For the years ended May 31, 2006 and May 31, 2005, the effect of stock options and warrants was antidilutive; therefore, they were not included in the computation of diluted loss per share. The weighted average number of shares issuable upon the exercise of outstanding stock options and warrants that were excluded from the computation as their effect would be antidilutive was 3,300,330 and 3,052,494 for the year ended May 31, 2006 and May 31, 2005, respectively.

(l) Fair Values of Financial Instruments

The estimated fair value of financial instruments has been determined based on the available market information and appropriate valuation methodologies. The carrying amounts of cash and cash equivalents, accounts receivable (including other receivables), other current assets, accounts payable and accrued expenses approximate fair value at May 31, 2006 and May 31, 2005, because of the short maturity of these financial instruments.

**FLIGHT SAFETY TECHNOLOGIES, INC.**  
**Notes To The Financial Statements**  
**For The Years Ended May 31, 2006 and 2005**

**Note 1 - Summary of Significant Accounting Policies (continued)**

(m) Estimates

In preparing financial statements in conformity with generally accepted accounting principles, management is required to make estimates and assumptions that affect the reported amounts of assets and liabilities as of the balance sheet date and the reported amounts of revenue and expenses during the reporting period. Material estimates that are particularly susceptible to significant change in the near term relate to the carrying values of investments, inventory, intangible assets and other receivables. Actual results could differ from those estimates.

(n) Stock-Based Compensation

Statement of Financial Accounting Standards ("SFAS") No. 123, Accounting for Stock-Based Compensation, establishes a fair-value-based method of accounting for stock-based compensation plans. The Company has adopted the disclosure-only alternative under SFAS No. 123, which requires the disclosure of the pro forma effects on net loss and net loss per share as if the fair value accounting prescribed by SFAS No. 123 had been adopted. The Company continued to recognize compensation costs using the intrinsic value based method described in APB No. 25, "Accounting for Stock Issued to Employees" and related interpretations for stock options issued to employees and directors. Under APB No. 25, compensation expense is recognized over the vesting period to the extent that the fair market value of the underlying stock exceeds the exercise price of the employee stock award on the date of grant. Stock options issued under our stock option arrangements generally have no intrinsic value at the grant date and, accordingly, no compensation cost has been recognized for them.

**FLIGHT SAFETY TECHNOLOGIES, INC.**  
**Notes To The Financial Statements**  
**For The Years Ended May 31, 2006 and 2005**

**Note 1 - Summary of Significant Accounting Policies (continued)**

The following table illustrates the effect on net loss and net loss per share if the Company had applied the fair value recognition provisions of SFAS No. 123 to stock-based employee compensation:

	<u>Year Ended</u> <u>May 31, 2006</u>	<u>Year Ended</u> <u>May 31, 2005</u>
Net loss as reported	\$<2,257,559>	\$<1,411,644>
Add: stock-based employee compensation expense included in net loss	\$4,769	\$109,964
Deduct: Total stock-based employee compensation expense determined under the fair value based method for all awards	\$<2,357,406>	\$<220,445>
Pro forma net income loss	\$<4,610,196>	\$<1,552,125>
Earnings per share:		
Basic and diluted - as reported	\$<.27>	\$<.17>
Basic and diluted - pro forma	\$<.56>	\$<.19>

The fair value of each option grant is estimated as of the grant date using the Black-Scholes option pricing model. The following weighted average assumptions were used to value the options granted in the years ended May 31, 2006 and 2005:

	<u>2006</u>	<u>2005</u>
Risk-free interest rate	4.45%	4.75%
Expected dividend yield	None	None
Expected life of options	10 years	10 years
Expected volatility	69%	40%
Weighted-average grant-date fair value	\$1.54	\$.55

As of May 31, 2006, the Compensation Committee of the Board of Directors elected to accelerate the vesting of stock options previously awarded to employees, officers and directors under the Company's equity incentive compensation arrangements. These options would have vested over the next three years at exercise prices of \$3.50 and \$6.00 per share. The decision to

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**FLIGHT SAFETY TECHNOLOGIES, INC.**  
**Notes To The Financial Statements**  
**For The Years Ended May 31, 2006 and 2005**

**Note 1 - Summary of Significant Accounting Policies (continued)**

accelerate vesting of these options was made primarily to reduce compensation costs in the Company's income statements over the next three years as a result of Financial Accounting Standards Board Statement of Financial Accounting Standards No. 123 (Revised 2004), "Share-Based Payment, an Amendment of FASB Statements No. 123 and 95" ("SFAS No. 123R"), which requires compensation costs related to share-based payment transactions, including stock options, be recognized in the company's financial statements. The Company will adopt the revised standard in the first quarter of the 2007 fiscal year and will apply it to the options granted or modified after May 31, 2006.

(o) Recent Accounting Pronouncements

In December 2004, the Financial Accounting Standards Board (FASB) issued SFAS No. 123(R), which establishes standards for the accounting for transactions in which an entity exchanges its equity instruments for goods or services or incurs liabilities in exchange for goods or services that are based on the fair value of the entity's equity instruments. SFAS No. 123(R) requires public entities to measure the cost of employee services received in exchange for an award of equity instruments based on the grant-date fair value of the award (with limited exceptions) and recognize the cost over the period during which an employee is required to provide service in exchange for the award.

Adoption requires a modified prospective application whereby compensation expense is recognized on or after the required effective date for the portion of the outstanding awards for which the requisite service has not yet been rendered, based on the grant-date fair value of those awards, calculated on a basis consistent with the SFAS No. 123 pro forma disclosures (Note 1(n)). The Company will adopt SFAS No. 123 (R) on its effective date, commencing with the quarter beginning June 1, 2006.

In May 2005, the FASB issued SFAS No. 154, "Accounting Changes and Error Corrections" which replaces Accounting Principles Board Opinion (APB) No. 20 "Accounting Changes" and SFAS No. 3, "Reporting Accounting Changes in Interim Financial Statements". SFAS No. 154 provides guidance on the accounting for and reporting of accounting changes and error corrections. It establishes retrospective application to the earliest practicable date, as the required method for reporting a change in accounting principle and the reporting of a correction of an error. The provisions of SFAS No. 154 are effective for fiscal years beginning after December 15, 2005. The implementation of this standard will only impact future financial statements to the extent there are future accounting changes or error corrections.

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**FLIGHT SAFETY TECHNOLOGIES, INC.**  
**Notes To The Financial Statements**  
**For The Years Ended May 31, 2006 and 2005**

**Note 1 - Summary of Significant Accounting Policies (continued)**

(p) Retirement Savings Plan

Effective July 1, 2004, the Company established a Retirement Savings Plan (the "Plan") under the provisions of Section 401(k) of the Internal Revenue Code. Employees, as defined in the plan, are eligible to participate on their first day of employment. Under the terms of the Plan, the Company will match up to the employees contribution of 5% of gross pay. The Company matching funds vest 100% with each semi-monthly payroll. The Company matching for the years ending May 31, 2006 and 2005 were \$66,924 and \$54,758, respectively.

**Note 2 - Contract Receivables and Other Receivables**

At May 31, 2006 and May 31, 2005 accounts receivable consisted of the following:

	<u>2006</u>	<u>2005</u>
U.S. Government:		
Amounts billed (Contract Receivables)	\$ 130,001	\$ 415,617
Amounts not billed (Other Receivables)	<u>96,673</u>	<u>330,010</u>
	<u>\$ 226,674</u>	<u>\$745,627</u>

Other receivables include retained fees on Government contracts which represent up to a 15% payment hold back against billable fees, amounts representing differences in actual and provisional overhead and general administrative rates which we expect are recoverable and will be paid by the Government, and other miscellaneous receivables. The aggregate amount recoverable for rate differences as of May 31, 2006 was \$0 compared to \$291,000 as of May 31, 2005. The portion of other receivables represented by recoverable rate difference for the year ended May 31, 2005 was billed and collected in November 2005. At May 31, 2006, we do not expect to receive payments for these other receivables in the next year and consider this account a long term asset. The summary below compares the balances for other receivables as of May 31, 2006 and May 31, 2005.

	<u>2006</u>	<u>2005</u>
Retained Fee		
Phase III Socrates	\$96,673	\$39,010
Recoverable Rate Difference		
Phase III Socrates	---	<u>\$291,000</u>
Total	<u>\$96,673</u>	<u>\$330,010</u>

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FLIGHT SAFETY TECHNOLOGIES, INC.  
Notes To The Financial Statements  
For The Years Ended May 31, 2006 and 2005

**Note 3 - Investments**

A summary of investments is as follows:

**May 31, 2006**

	<b><u>Amortized Cost</u></b>	<b><u>Gross Unrealized Gains</u></b>	<b><u>Gross Unrealized Losses</u></b>	<b><u>Fair Value</u></b>
<b>Available for Sale</b>				
Mutual funds	\$1,661,919	\$ _____ =	\$ --	\$ 1,661,919
<b>Held to Maturity</b>				
Corporate bonds	\$3,837,905	\$ 789	\$ --	\$3,838,694
U.S. Government Securities.	<u>500,002</u>	____--	(5,472)	<u>494,530</u>
	<u>\$4,337,907</u>	<u>\$ 789</u>	<u>\$ (5,472)</u>	<u>\$4,333,224</u>

**May 31, 2005**

	<b><u>Amortized Cost</u></b>	<b><u>Gross Unrealized Gains</u></b>	<b><u>Gross Unrealized Losses</u></b>	<b><u>Fair Value</u></b>
<b>Available for Sale</b>				
Mutual funds	\$3,024,256	\$ _____	\$(164,023)	\$2,860,233
<b>Held to Maturity</b>				
Corporate bonds	\$4,033,759	\$ --	\$ (4,031 )	\$4,029,728
U.S. Government securities	<u>500,002</u>	____--	(8,282)	<u>491,720</u>
	<u>\$4,533,761</u>	<u>\$ --</u>	<u>\$ ( 12,313)</u>	<u>\$4,521,448</u>

Held-to-maturity securities are due in one year or less as of May 31, 2006.

**FLIGHT SAFETY TECHNOLOGIES, INC.**

**Notes To The Financial Statements  
For The Years Ended May 31, 2006 and 2005**

**Note 3 - Investments (Continued)**

Information pertaining to securities with gross unrealized losses at May 31, 2006 and 2005 aggregated by investment category and length of time that individual securities have been in a continuous loss position is as follows:

<b>May 31, 2006</b>	<b><u>Less Than Twelve</u></b>		<b><u>Greater Than Twelve</u></b>	
	<b><u>Months</u></b>		<b><u>Months</u></b>	
	<b><u>Gross</u></b>	<b><u>Fair</u></b>	<b><u>Gross</u></b>	<b><u>Fair</u></b>
	<b><u>Unrealized</u></b>	<b><u>Value</u></b>	<b><u>Unrealized</u></b>	<b><u>Value</u></b>
	<b><u>Losses</u></b>		<b><u>Losses</u></b>	
Mutual funds	\$ --	\$ --	\$ --	\$ --
Corporate bonds	--	--	--	--
U.S. Government securities	<u>--</u>	<u>--</u>	<u>5,472</u>	<u>494,530</u>
Total temporarily impaired securities	\$ --	\$ --	\$ <u>5,472</u>	\$ <u>494,530</u>
<b>May 31, 2005</b>	<b><u>Less Than Twelve</u></b>		<b><u>Greater Than Twelve</u></b>	
	<b><u>Months</u></b>		<b><u>Months</u></b>	
	<b><u>Gross</u></b>	<b><u>Fair</u></b>	<b><u>Gross</u></b>	<b><u>Fair</u></b>
	<b><u>Unrealized</u></b>	<b><u>Value</u></b>	<b><u>Unrealized</u></b>	<b><u>Fair</u></b>
	<b><u>Losses</u></b>		<b><u>Losses</u></b>	<b><u>Value</u></b>
Mutual funds	\$ --	\$ --	\$ 164,023	\$ 835,233
Corporate bonds	4,031	4,029,728	--	--
U.S. Government securities	<u>8,282</u>	<u>491,720</u>	<u>--</u>	<u>--</u>
Total temporarily impaired securities	\$ <u>12,313</u>	\$ <u>4,521,448</u>	\$ <u>164,023</u>	\$ <u>835,233</u>

The Company recognized \$262,337 of impairment charges in 2006 related to its investments available for sale. These losses result from the Company's investment in mutual bond funds consisting of common shares of Western Assets / Claymore U.S. Treasury inflation protected securities, which have a credit quality average rating of AAA, an anticipated yield between 5.25% - 5.75% and secondary market liquidity. Management had expected the unrealized loss to decline as the gap between the ten year treasury rate and Consumer Price Index (CPI) rate narrowed as was expected to occur over several months based on relevant economic forecasts. However, despite the narrowing of the gap between the yield on the ten year Treasury note and the CPI, the price of the investment did not improve as expected. The Company considered the severity and duration of these impairments and determined that they were other than temporary, and therefore, recorded an impairment loss. Management considered the severity and duration and the remaining unrealized loss as of May 31, 2006 and determined that it was other than temporary.

**FLIGHT SAFETY TECHNOLOGIES, INC.**  
**Notes To The Financial Statements**  
**For The Years Ended May 31, 2006 and 2005**

**Note 4 - Property and Equipment**

Property and equipment at May 31, 2006 and 2005 are summarized by major classifications as follows:

2006

2005

Machinery and equipment	\$290,456	\$276,817
Furniture and fixtures	12,515	12,515
Automobiles	220,397	170,944
Software	<u>76,894</u>	<u>76,894</u>
	600,262	537,170
Less: accumulated depreciation	<u>418,656</u>	<u>328,608</u>
	<u>\$181,606</u>	<u>\$208,562</u>

Depreciation expense for the years ended May 31, 2006 and 2005 was \$90,048 and \$112,252, respectively.

**Note 5 - Intangible Assets**

Intangible assets at May 31, 2006 and 2005 consist of patents as follows:

	<u>2006</u>	<u>2005</u>
Cost	\$296,080	\$227,939
Less Accumulated Amortization	<u>(65,330)</u>	<u>(47,377)</u>
	<u>\$230,750</u>	<u>\$180,562</u>

Amortization expense for the years ended May 31, 2006 and 2005 was \$17,953 and \$13,408, respectively. Amortization expense for the next five years is expected to be approximately \$18,000 per year.

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**FLIGHT SAFETY TECHNOLOGIES, INC.**

**Notes To The Financial Statements  
For The Years Ended May 31, 2006 and 2005**

**Note 6 - Related Party Transactions**

The Company utilizes the lobbying services of a firm that is wholly-owned by one of the Company's directors. Total expenses related to these services were \$113,300 and \$105,500 for the years ended May 31, 2006 and 2005, respectively. As of May 31, 2006, no fees remained unpaid.

The Company utilized one of the Company's Directors for a specific business development assignment and the expense for this service was \$23,136 for the year ended May 31, 2006.

The Company leases office space in Baltimore, MD from an officer of the Company for \$500 per month on a month to month basis. Total rent expense related to this office space was \$6,000 for each the years ended May 31, 2006 and 2005.

**Note 7 - Stockholders' Equity**

**Stock Options**

The Company adopted the 2005 Stock Incentive Plan in October 2005. Under the terms of the 2005 Plan, all of our employees, directors,

consultants and advisors are eligible to be granted options, restricted stock awards, or other stock-based awards. Under the 2005 Plan, a total of 1,500,000 shares of our common stock are available for issuance, of which 246,600 shares remain available for future awards as of May 31, 2006. In addition, the shareholder vote that approved the 2005 Plan also approved previous awards totaling 570,000 shares of our common stock.

The Compensation Committee of our board of directors, in its discretion, selects the person(s) to whom stock based awards may be granted, the time or times at which such awards shall be granted, the number of shares subject to each such grant, and the term of the award. The exercise price of options granted under the 2005 Plan is determined by the Committee at the time the options are granted but may not be less than 100% of the fair market value of the common stock on the date such option is granted; provided, however, the exercise price of an incentive stock option granted to a 10% or greater shareholder may not be less than 110% of the fair market value of the common stock on the date such option is granted.

Options granted under the 2005 Plan expire no later than ten (10) years from the date of grant; provided that in the case of an incentive stock option granted to a 10% shareholder, the term of the option may be no more than five (5) years from the date of grant. No option may be exercised after the expiration of its term.

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**FLIGHT SAFETY TECHNOLOGIES, INC.**

**Notes To The Financial Statements  
For The Years Ended May 31, 2006 and 2005**

**Note 7 - Stockholders' Equity (Continued)**

**Warrants**

The Company had warrants outstanding to purchase the following number of shares as of May 31, 2006 and 2005:

<u>Exercise Price</u>	<u>2006</u>	<u>2005</u>
\$3.30	1,514,200	1,514,300
\$3.60	270,000	270,000
\$5.40	135,000	135,000
\$6.00	-----	<u>101,072</u>
Total	<u>1,919,200</u>	<u>2,020,372</u>

All outstanding warrants are exercisable as of May 31, 2006 and expire January 29, 2007.

The warrants exercisable at \$3.30, above, were issued in conjunction with a public offering in February 2004 (public warrants). We may redeem our public warrants for \$0.25 per warrant, subject to adjustment in the event of a stock split, dividend or the like, upon 30 days notice so long as the last reported sale price per share of our common stock as reported by the principal exchange or trading market on which our common stock trades equals or exceeds \$10.00 (subject to adjustment) for twenty consecutive trading days ending on the tenth day prior to the date we give notice of redemption. If we give notice of redemption, holders of our public warrants will be forced to sell or exercise the public warrants they hold or accept the redemption price. The notice of redemption could come at a time when, under specific circumstances or generally, it is not advisable or possible to sell or exercise our public warrants.



**FLIGHT SAFETY TECHNOLOGIES, INC.**

**Notes To The Financial Statements  
For The Years Ended May 31, 2006 and 2005**

**Note 7 - Stockholders' Equity (Continued)**

A summary of the activity of our outstanding stock options and warrants for the years ended May 31, 2005 and May 31, 2006 is as follows:

	<u>Options Outstanding</u>	<u>Weighted Average Exercise Price</u>	<u>Warrants Outstanding</u>	<u>Weighted Average Exercise Price</u>
Balance May 31, 2004	632,955	\$6.00	2,020,372	\$3.62
Expired	(83,334)	6.00	--	--
Granted	420,000	3.50	--	--
Exercised	--	--	--	--
	=	—	—	—
Balance May 31, 2005	969,621	\$4.92	2,020,372	\$3.62
Expired	(487,121)	6.00	(101,072)	6.00
Granted	1,403,600	3.50	--	--
Exercised	—	—	(100)	3.30
Balance May 31, 2006	<u>1,886,100</u>	<u>\$3.58</u>	<u>1,919,200</u>	<u>\$3.49</u>

The following table summarizes information regarding options outstanding and options exercisable at May 31, 2006:

<u>Exercise Price</u>	<u>Number of Options</u>	<u>Weighted Average Remaining Contractual Life (Years)</u>	<u>Weight Average Exercise Price</u>	<u>Number of Options Exercisable</u>	<u>Weighted Average Exercise Price</u>
\$6.00	62,500	.88	\$6.00	62,500	\$6.00
\$3.50	<u>1,823,600</u>	9.27	\$3.50	<u>1,823,600</u>	\$3.50
	<u>1,886,100</u>	8.99	\$3.58	<u>1,886,100</u>	\$3.58

Some of these warrants and options may provide antidilution protection to their holders which would result in our issuance of shares in addition to those under the warrant or option, upon the occurrence of sales of our common stock below certain prices, stock splits, redemptions, mergers, and other similar transactions.

Unearned stock compensation results from common stock issued to employees in fiscal year 2002 and options issued to a director during fiscal year 2004. The balance as of May 31, 2005 of \$4,769 was fully amortized during the fiscal year ended May 31, 2006.

**Note 8 - Income Taxes**

The provision for income taxes for the years ending May 31, 2006 and 2005 is as follows:

	<u>2006</u>	<u>2005</u>
Current tax provision		
Federal	--	--
State	\$ 24,800	\$ 27,660
Total current	<u>\$ 24,800</u>	<u>\$ 27,660</u>
Deferred tax provision		
Federal	--	--
State	--	--
Total deferred	--	--
Total	<u>\$ 24,800</u>	<u>\$ 27,660</u>

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**FLIGHT SAFETY TECHNOLOGIES, INC.**

**Notes To The Financial Statements  
For The Years Ended May 31, 2006 and 2005**

**Note 8 - Income Taxes (continued)**

The tax effects of temporary differences and carryforwards that give rise to deferred taxes as of May 31, 2006 and 2005 are:

	<u>May 31,</u>	
	<u>2006</u>	<u>2005</u>
Deferred tax assets:		
Net operating loss carry forwards	\$1,985,000	\$ 1,375,000
Property and equipment	3,000	--
Accrued vacation	36,700	22,000
Tax credits	<u>29,300</u>	--
Gross deferred tax asset	2,054,000	1,397,000
Valuation allowance	<u>(2,046,300)</u>	<u>(1,384,000)</u>
Deferred tax assets, net of valuation allowance	<u>7,700</u>	<u>13,000</u>
Deferred tax liabilities:		
Property and equipment	--	(3,750)
Different book and tax bases of intangible assets	<u>(7,700)</u>	<u>(9,250)</u>
Total deferred tax liabilities	<u>(7,700)</u>	<u>(13,000)</u>
Net deferred tax assets (liability)	<u>\$ --</u>	<u>\$ --</u>

Current tax for 2006 and 2005 is due to State excise taxes on equity. Cash paid for taxes amounted to \$5,300 and \$23,217 in 2006 and 2005, respectively.

The Company has recorded a valuation allowance of 100% of the net deferred tax asset because it is more likely than not that the asset will not be realized. The Company has Federal and State net operating loss carryforwards of approximately \$7,000,000, to reduce future taxable income, if any. The Federal operating losses expire in various years through 2026 and the State operating losses expire in various years through 2011. Use of net operating losses may be subject to limitations based on ownership changes as defined by the Internal Revenue code.

**Note 8 - Income Taxes (continued)**

The reason for the differences between income tax at the statutory federal income tax rate and the effective tax rates are summarized as follows:

	<u>2006</u>	<u>2005</u>
Income tax expense (benefit) at statutory rate	\$ (759,140)	\$(470,560)
State tax provision, net	(85,700)	(89,980)
Meals and entertainment	6,360	2,730
Non deductible lobbying expense	58,120	55,710
Change in estimated effective rate	142,860	(35,540)
Change in valuation allowance	<u>662,300</u>	<u>565,300</u>
Income tax as reported	<u>\$ 24,800</u>	<u>\$ 27,660</u>

**Note 9 - Commitments**

The Company has two leases for office space in Mystic, Connecticut at \$1,600 and \$1,150 per month, respectively, which expire on March 31, 2008. The Company also leases office space, on a month to month basis, in Baltimore, Maryland, from an officer of the Company at \$500 per month. On April 23, 2004, the Company entered into a lease which was extended on May 15, 2006 to May 31, 2007, for office space in North Kingston, Rhode Island at \$1,200 per month. Rent expense for all leased space was \$48,216 and \$48,961 for the years ended May 31, 2006 and 2005, respectively. The Company also has operating leases for a Xerox copier and a 2005 Lincoln Town Car with monthly payments of \$433 and \$761, respectively. The copier lease expires May 31, 2011 and the Lincoln Town Car lease expires July 31, 2008.

**Future Minimum Lease Commitments**

<u>Year Ending May 31</u>	<u>Total</u>
2007	\$60,228
2008	18,218
2009	6,718
2010	5,196
2011	5,196

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**FLIGHT SAFETY TECHNOLOGIES, INC.**

**Notes To The Financial Statements  
For The Years Ended May 31, 2006 and 2005**

**Note 9 - Commitments (Continued)**

In connection with the transfer of the UNICORN™ technology from Advanced Acoustical Concepts, Inc. (AAC) to the Company, the Company has agreed to pay a lump sum of \$150,000 to AAC after the Company receives revenues from sales of UNICORN products of \$1,000,000 and a continuing 3% royalty on all net sales of UNICORN™ products thereafter. As of May 31, 2006 and 2005, no amounts have been paid or incurred under this commitment.

The Company has commitments with various firms for lobbying services totaling \$180,000 for fiscal year 2007.

**Note 10 - Teaming Agreement**

In connection with SOCRATES®, the Company has entered into a Teaming Agreement (as defined in the Federal Acquisition Regulations with Lockheed Martin Corporation ("Lockheed")). The Company will act as the primary contractor and Lockheed will function as the primary subcontractor. The agreement is for a ten year period ending in May 2007, unless terminated earlier based on specific conditions identified under this agreement. As of May 31, 2006 and 2005, amounts due from the Company to Lockheed were \$80,164 and \$319,391, respectively.

#### **Note 11 - Contingencies**

Several lawsuits have been filed in the United States District Court for the District of Connecticut, by purchasers of our common stock naming us, certain of our executive officers and directors, and certain underwriters, who sold shares of our common stock to the public, as defendants. The suits assert claims under Section 10b and 20a of the Securities Exchange Act of 1934 and Rule 10b-5 promulgated thereunder and under Section 11 of the Securities Act of 1933. Plaintiffs' complaint alleges Flight Safety Technologies, Inc. omitted material information on reports filed under the 1934 Act, registration statements filed under the 1933 Act and a statement made on its website which made other statements about SOCRATES® false and misleading. The plaintiffs seek unspecified damages on behalf of a purported class of purchasers of our securities. On December 23, 2005, Plaintiffs, through their counsel, filed a consolidated amended complaint, which asserts various violations of federal securities laws including claims under

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### **FLIGHT SAFETY TECHNOLOGIES, INC.**

#### **Notes To The Financial Statements For The Years Ended May 31, 2006 and 2005**

#### **Note 11 - Contingencies (continued)**

sections 11, 12, and 15 of the Securities Act of 1933 and sections 10(b) and 20 of the Securities Act of 1934. These consolidated amended complaint claims are based on allegations that, among other things, we made misleading statements and failed to fully disclose material information from reports prepared by VOLPE, MIT Lincoln Laboratory and the FAA, concerning the time table and our prospects for achieving operational viability of the SOCRATES® Wake Vortex Sensor, and the characterization of certain litigation involving Samuel A. Kovnat, our Chairman and Chief Executive Officer, that was resolved in 1992. On February 28, 2006 we filed our motion to dismiss plaintiffs' consolidated amended complaint. We firmly believe that the claims contained in the complaints are without merit and we have filed a Motion to Dismiss these suits. We will continue to conduct a vigorous defense in these matters, but it is too early to predict the outcome of this litigation.

On April 26, 2004, in conjunction with the renewal of a nondisclosure agreement, we were advised by Lockheed Martin Corporation that it owns a certain patent which predates our SOCRATES® patent and, according to Lockheed Martin Corporation, contains some intellectual property related to our SOCRATES® patent. We are conducting further discussions with Lockheed Martin Corporation on potential ways to expand and extend the relationship and believe the outcome of such discussions will resolve any intellectual property concerns. We cannot predict or provide any assurance on the outcome of these discussions and whether any outcome will be satisfactory to us.

In June of 2006, Analogic Corporation initiated a lawsuit against us and Sanders Design International (SDI) and certain of its principals to adjudicate the relationship with SDI found in our Teaming Agreement of 2004 with SDI and the antecedent February 2003 License Agreement between Analogic and SDI which Analogic is claiming violates certain intellectual property claims. We are vigorously defending our position, but it is too early to predict the outcome of this litigation.



**EMPLOYMENT AGREEMENT**  
**Between Flight Safety Technologies, Inc.**  
**and**  
**C. ROBERT KNIGHT**

**THIS AGREEMENT** made as of this 23rd day of June, 2005, by and between Flight Safety Technologies, Inc., a Nevada Corporation with a principal place of business at 28 Cottrell Street, Mystic, Connecticut, 06355 (hereafter "Flight Safety" or the "Company"), and C. Robert Knight (hereafter "Employee").

**RECITALS:**

**WHEREAS**, Flight Safety is engaged in the business of designing, developing, marketing, managing and operating proprietary devices, equipment, and technologies to enhance aviation safety, increase airport capacity and reduce airport delays (the "Business");

**WHEREAS**, Flight Safety desires to employ Employee to provide certain services related to the development and operation of its business; and

**WHEREAS**, Employee desires to render such services.

**NOW THEREFORE**, in consideration of the mutual promises and covenants contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. Employment.

- (a) Flight Safety hereby employs Employee as VP Business Administration and Legal. You will report to Mr. Sam Kovnat, Chairman and CO of the Company and your primary responsibility will be to manage all administrative and legal activities of the company. In all cases, your duties and responsibilities will be subject to direction of the Board of Directors of the Company.
- (b) The Employee hereby accepts such appointment subject to the provisions and conditions of this Agreement.

2. Duration of Agreement. This Agreement shall extend for a period of two years if not sooner terminated pursuant to Section 6 below. The parties may agree by written amendment to continue this Agreement after that date on a year to year basis.

3. Employee's Duties.

- (a) The Employee shall devote all of his business time and attention to the affairs of the Company to effectively carry out his assigned duties.
- (b) Outside Activities. Employee will be able to serve on up to two Board of Director positions provided these activities do not conflict with or diminish Employee's ability to conduct his duties to the Company. Any Board positions or any other professional activities unrelated to the Company will require the prior approval of the Company's Board of Directors.

4. Company's Duties.

- (a) The Company shall:
  - (i) Compensate Employee as set forth in Section 5 below.
  - (ii) Furnish the Employee with a suitable private office at the company's headquarters in Mystic, CT and such equipment, supplies, instruments, and clerical and staff support as are reasonable and necessary to fulfill his responsibilities as set forth in this Agreement.
  - (iii) Furnish the Employee with such data, materials, documents and other information as are reasonable and necessary to fulfill his responsibilities and duties as set forth in this Agreement.

(iv) Reimburse the Employee for all reasonable out of pocket business expenses he incurs to fulfill the terms of this Agreement, approved by the Company in accordance with its policies, rules, standards, and/or procedures governing such expenses, including without limitation, those for travel, lodging, food, telephone, facsimile and other electronic voice or data transmissions. The Employee shall submit periodic reports of such expenses on forms with supporting documentation as the Company shall prescribe for its executive Employees and Company shall pay such reimbursement within forty-five (45) days of such submissions.

(b) The Company, upon approval of the Board of Directors, may pay additional compensation to members of the management, including the Board of Directors beyond that amount set forth in Sections 5(a) and 5(b) below. The Board may approve such additional compensation if it views such additional compensation to be in the best interest of, and fair to the Company. Such additional compensation may be in the form of, without limitation, stock options, warrants, or performance bonuses.

5. Compensation.

(a) The Company shall pay Employee, at a minimum, a base annual salary of \$150,000 ("Base Compensation") for each of the two years. Compensation shall be in monthly installments payable on the last day of each month, except as the parties may agree to another installment practice with consent of Board of Directors from time to time. There shall be no adjustment for cost of living increases or Consumer Price Index increases. This compensation is subject to Section 5(d) below.

(b) Employee shall be eligible to participate in coverage under the Company's employee and insurance plans or programs and other employee benefit plan or programs, if any, at least equal to the coverage provided to other full-time executives of Flight Safety, including an annual allowance of up to \$7,200 payable monthly to cover the costs of individual medical insurance premiums and/or medical costs and expenses.

(c) Employee may be paid additional compensation (as a member of management and/or the Board of Directors) as the Board may approve from time to time pursuant to Section 4(b) above.

6. Termination.

(a) The Term of this Agreement shall end on the date of the first of the following events to occur:

(i) Close of business two (2) years to the date following the execution of this Agreement.

(ii) Immediately following the Board of Director's receipt of written notice of the Employee's resignation. The Employee shall not deliver any such notice until the parties have had prior verbal discussions.

(iii) The date on which the Employee shall have received written notice from the Board of Directors of the Company that it has decided to terminate his employment for cause, which notice shall specify the nature of such cause. For purposes of this subsection, "cause" shall mean any of the following:

(A) The breach of any term of this Agreement.

(B) The repeated, deliberate or intentional failure, refusal, or the habitual neglect of the Employee to perform his duties to the standard required under this Agreement (except by reason of short term or long term disability).

(C) Acts constituting gross negligence in the performance of his duties or any cause based on criminal misconduct.



(D) An act of dishonesty by the Employee intended to result in gain or personal enrichment of the Employee at the Company's expense.

(E) In the event that the Employee is unable for a period of one hundred eighty (180) consecutive days to substantially perform his duties and services under this Agreement by reason of illness or incapacity, the thirtieth (30<sup>th</sup>) day after the date on which Employee shall have received written notice from the Board of Directors of the Company that it has decided to terminate his employment because of such disability.

(F) Death of the Employee.

- (b) Termination of the Employee's employment pursuant to Section 6(a) shall not affect Employee's obligation under Sections 7 (Confidentiality), 8 (Restrictive Covenants), and 10 (Intellectual Property).
- (c) The Company may terminate the Employee's employment at any time without cause. In the event of termination without cause the Company will continue to pay the Employee an amount equal to his pay for twelve month monthly installments (twelve months salary) or the amount equal to his pay for the number of monthly installments remaining under this Agreement, whichever is less.

7. Confidentiality.

- (a) The Employee may now and in the future have access to, and may be given information with respect to the special business techniques, concepts, designs, drawings, ideas, models, inventions, molds, forms, software programs, other intangible work product and tangible deliverables, patents, copyrights, trade secrets, other intellectual property, systems, know-how, financial, accounting and production policies, procedures, records and infrastructure, lists of customers, and all other information regarding manufacture, implementation or distribution of the products, plans and technology (the "Confidential Information") that are a part of or used or useful in the Business of the Company and its members, employees, agents, subsidiaries or affiliates (the "Protected Party"), which is not generally known to the public and gives the Protected Party an advantage over its respective competitors who do not know or use the Confidential Information. The Employee acknowledges that all of such Confidential Information as it now or in the future exists:
- (1) Belongs to the Company, its shareholders, subsidiaries and affiliates;
  - (2) Constitutes specialized and highly confidential information not generally known in the industry; and
  - (3) Constitutes a valuable asset of the Company.

Accordingly, the Employee recognizes and acknowledges that it is essential to the Company to protect the confidentiality of such Confidential Information.

- (b) The Employee agrees to act as a trustee of such Confidential Information and of any other confidential information he acquires in connection with his association with the Company. Further, as an inducement to the Company to retain him as an employee, he will hold all such Confidential Information, in trust and confidence for the use and benefit solely of the Company.

- (c) The Employee agrees to refrain from divulging or disclosing any Confidential Information to others and from using such Confidential Information, except for the benefit of the Company as contemplated hereunder. The Employee further agrees to refrain from taking any other actions, which would tend to destroy or reduce the value of the Confidential Information to the Protected Party.
- (d) Upon the Employee's termination (for any reason), the Employee shall deliver, or cause to be delivered in the case of termination because of incapacity, to the Company all documents and data of any nature pertaining to his work with the Company. The Employee shall not take any documents or data of any description or any reproduction of any description containing or pertaining to any Confidential Information.
- (e) The confidentiality provisions of this Section 7 are intended to supplement and not supersede the applicable provisions of the Uniform Trade Secrets Act, to the fullest extent applicable.
- (f) During the term hereof, and thereafter, the Employee shall not disclose such Confidential Information to any person, firm, association, or other entity for any reason or purpose whatsoever, unless such information has already become common knowledge or unless the Employee is required to disclose it by judicial process. The Employee shall notify the Company in writing of such judicial process prior to disclosure, and allow the Company a reasonable opportunity to defend and protect its rights therein.

8. Restrictive Covenants.

- (a) For a period of twelve (12) months after the expiration or termination of this Agreement for any reason whatsoever, the Employee shall not, directly or indirectly, engage in activities for, nor render services (similar or reasonably related to those in which the Employee shall have rendered to the Company) to, any person, entity, firm, business organization which directly or indirectly competes with the Business of the Company to the extent and insofar as such competition is based on or exploits the Confidential Information or Inventions of the Company, whether now existing or hereafter established, nor shall the Employee entice, induce or encourage any of the Company's employees to engage in any activity which, were it done by the Employee, would violate any provision of the this section.
- (b) For a period of twelve (12) months after the expiration or termination of this Agreement for any reason whatsoever, the Employee shall not, directly or indirectly, solicit the Company's employees or independent contractors to leave their employ or terminate their contracts with the Company. Further, the Employee shall not offer or cause to be offered employment or an independent contract to any person who was employed by or under contract with the Business of the Company at any time during the twelve (12) months prior to the termination of his employment with the Company.

Upon the Employee's written request to the Company specifying the activities proposed to be conducted by the Employee, the Company may in its discretion give the Employee written approval(s) to personally engage in any activity or render services referred to in Subsection (a) upon receipt of written assurances (satisfactory to the Company and its counsel) from the Employee and from the Employee's prospective employer(s), partner(s) or company that the integrity and provisions of this Section will not in any way be jeopardized or violated by such activities, provided the burden of so establishing the foregoing to the satisfaction of the Company and its counsel shall be upon the Employee and his prospective employer(s), partner(s) or company.

- (c) The parties acknowledge that they have attempted to limit the Employee's right to compete only to the extent necessary to protect the Company from unfair competition. However, the parties hereby agree that, if the scope or enforceability of the restrictive covenant is in any way disputed at any time, a court or other trier of fact may modify and enforce the covenant to the extent that it finds the covenant to be reasonable under the circumstances existing at the time.
  - (d) The Employee further acknowledges that: (1) in the event his contract with the Company terminates for any reason, he will be able to earn a livelihood without violating the foregoing restrictions; and (2) that his ability to earn a livelihood without violating such restrictions is a material condition to his retention by the Company.
  - (e) The Employee's duties under this Section 8 shall survive termination of the Employee's employment with the Company. The Employee acknowledges that a remedy at law for any breach or threatened breach by the Employee of this Section 8 would be inadequate, and the Employee therefore agrees that the Company shall be entitled to injunctive relief in case of any such breach or threatened breach.
9. Warranty Against Prior Existing Restriction. The Employee represents and warrants to the Company that he is not a party to any agreement or subject to any former employer's policy or procedure containing a non-competition clause or other restriction with respect to: (a) the services which he is required to perform hereunder; or (b) the use or disclosure of any information directly or indirectly related to the Company's business, or to the services he is required to render pursuant hereto. The Employee further represents and warrants that he does not require and will not use in performing his duties hereunder for the Company any Confidential Information of any previous employer. Additionally, the Employee affirms that prior to the date of this Agreement he has not induced or attempted to induce employees of any previous employer to leave said employment to work for Company.
10. Intellectual Property.
- (a) The Employee agrees that all inventions, designs, improvements, writings, and discoveries, processes and techniques (collectively defined as "Intellectual Property") made since first being employed by the Company until the employee ceases to be employed by the Company, whether under this Agreement or otherwise, and pertaining to the business conducted by the Company, shall be the exclusive property of the Company. The employee agrees to promptly disclose such Intellectual Property to the Company, and the Company shall determine whether such Intellectual Property pertains to its current or future business.
  - (b) All Intellectual Property shall be the sole property of the Company and its assigns, and the Company and its assigns shall be the sole owner of all patents and other rights in connection therewith. The Employee hereby assigns to the Company any rights he may have or acquire in all Intellectual Property. The Employee further agrees as to all Intellectual Property to assist the Company in every proper way (but at the Company's expense) to obtain and from time to time enforce patents, copyrights, trademarks, and other rights and protections and enforcing the same, as the Company may desire, together with any assignments thereof to the Company or persons designated by it. The Employee's obligation to assist the Company in obtaining and enforcing patents, copyrights, trademarks and other rights and protections relating to the Inventions in any and all countries shall continue beyond the termination of the Employee's employment, but the Company shall compensate the Employee at a reasonable rate after such termination for time actually spent by Employee at the Company's request on such assistance.

- (c) In the event the Company is unable after reasonable effort, to secure the Employee's signature on any document or documents needed to apply for or prosecute any patent, copyright, other right or protection relating to an Invention, for any reason whatsoever, the Employee hereby irrevocably designate and appoint the Company and its duly authorized officers and agents as the Employee's agent and attorney-in-fact to act for and on the Employee's behalf to execute and file any such application or applications and to do all other lawfully permitted acts to further the prosecution and issuance of patents, copyrights, or similar protections thereon with the same legal force and effect as if executed by the Employee.
- (d) The Company makes no claim to any intellectual property or product which is developed or invented by the Employee and not useful in or unrelated to the Company's Business as determined by the Company, provided such intellectual property or product does not violate any terms of Section 7 (Confidentiality), Section 8 (Restrictive Covenants), or Section 10 (Intellectual Property) set forth in this Agreement. Further, the Employee's invention may not result from the use of Confidential Information. The Company shall notify the Employee within one year whether any such intellectual property is related to the Company's current or future business. If the Company fails to notify the Employee within one year, then the Company shall forfeit any rights to the intellectual property.

11. Severability. It is the desire and intent of the parties hereto that the provisions of this Agreement shall be enforced to the fullest extent permissible under the laws and public policy of each jurisdiction in which enforcement is sought. Accordingly, if any particular provision, section, or subsection of this Agreement is adjudged by any court of law to be void or unenforceable, in whole or in part, such adjudication shall not be deemed to affect the validity of the remainder of the Agreement, including any other provision, section, or subsection. In addition, if any one or more of the provisions contained in this Agreement shall for any reason be held to excessively broad as to duration, geographical scope, activity or subject, it shall be construed by limiting and reducing it, so as to be enforceable to the extent compatible with the applicable law as it shall then appear. Each provision, section, and subsection of this Agreement is declared to be separable from every other provision, section, and subsection and constitutes a separate and distinct covenant.

12. Entire Agreement. This Agreement contains the entire understanding of the parties and supersedes all previous verbal and written agreements. There are no other agreements, representations, or warranties not set forth herein.

13. Notices. All notices or other documents under this Agreement shall be in writing and delivered personally or mailed by certified mail, return receipt requested postage prepaid, addressed to the Company or Employee at their last known addresses. Addresses are as follows:

If to Company: Flight Safety Technologies, Inc.  
28 Cottrell Street  
Mystic, Connecticut 06355

If to Employee: C. Robert Knight

Non-waiver. No delay or failure by either party to exercise any right under this Agreement, and no partial or single exercise of that right, shall constitute a waiver of that or any other right, unless otherwise expressly provided herein.

13. Headings. Headings in this Agreement are for convenience only and shall not be used to interpret or construe its provisions.

14. Governing Law. This Agreement shall be construed in accordance with and governed by the laws of the State of Connecticut.

15. Counterparts. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument.
17. Binding Effect. The provisions of this Agreement shall be binding upon and inure to the benefit of each of the parties and their respective successors and assigns.
18. Remedies. The parties agree that in addition to any other rights and remedies available to the Company for any breach by the Employee of his obligations hereunder, the Company shall be entitled to enforce the Employee's obligations hereunder by court injunction, or court ordered affirmative action, which injunction or ordered action may restrain a future breaking of this Agreement if there is reasonable ground to believe that such a breach is threatened. The Employee further agrees to allow the Company to enjoin future use or disclosure of its Confidential Information if it has reasonable grounds to believe such action is necessary to protect such Confidential Information.
19. Attorney's Fees. If either party hereto shall breach any of the terms hereof, such breaching party shall pay to the non-defaulting party all of the non-defaulting party's costs and expenses, including reasonable attorney's fees and costs, incurred by such party in enforcing the terms of this Agreement.
20. Prohibition Against Assignment. The Employee agrees, for himself and on behalf of his successors, heirs, executors, administrators, and any person or persons claiming under him by virtue hereof, that this Agreement and the rights, interests, and benefits hereunder cannot be assigned, transferred, pledged, or hypothecated in any way and shall not be subject to execution, attachment, or similar process. Any such attempt to do so, contrary to the terms hereof, shall be null and void and shall relieve the Company of any and all obligations or liability hereunder.

IN WITNESS WHEREOF, I have on the date set forthwith unto my signature and seal

**For Company:**  
Flight Safety Technologies, Inc.

By: /s/ Sam Kovnat  
Its CEO

**For Employee:**

/s/ C. Robert Knight  
Individually

<b>SOLICITATION, OFFER AND AWARD</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING		PAGE OF PAGES 1   32	
2. CONTRACT NO. #1 DTRT57-05-D-30115		3. SOLICITATION NUMBER DTRT57-05-R-20120		4. SOLICITATION TYPE SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED BID (RFP)		5. DATE ISSUED 09/01/2005	
7. ISSUED BY USDOT/RITA/Volpe Center Acquisition Management Division 55 Broadway Cambridge MA 02142		CODE DTS-852		6. REQUISITION/PURCHASE NUMBER 53-3699			
8. ADDRESS OFFER TO (if other than Item 7)							
NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder"							
<b>SOLICITATION</b>							
9. Sealed offers in original and _____ copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if hand carried, in the depository located in <u>SEE BLOCK #7</u> until <u>1200 ET</u> local time <u>09/06/2005</u>							
CAUTION: LATE Submissions, Modifications and Withdrawals: See Section I, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation. (Hour) (Date)							
10. FOR INFORMATION CALL		A. NAME Michael, Raymond		B. TELEPHONE (NO COLLECT CALLS) AREA CODE NUMBER EXT. 617 494-2313		C. E-MAIL ADDRESS raymondm@volpe.dot.gov	
<b>11. TABLE OF CONTENTS</b>							
(X)	SEC.	DESCRIPTION	PAGE(S)	(X)	SEC.	DESCRIPTION	PAGE(S)
PART I - THE SCHEDULE				PART II - CONTRACT CLAUSES			
<input type="checkbox"/>	A	SOLICITATION/CONTRACT FORM		<input checked="" type="checkbox"/>	I	CONTRACT CLAUSES	28
<input checked="" type="checkbox"/>	B	SUPPLIES OR SERVICES AND PRICE/COST	3	PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.			
<input checked="" type="checkbox"/>	C	DESCRIPTION/SPECS./WORK STATEMENT	5	<input checked="" type="checkbox"/>	J	LIST OF ATTACHMENTS	33
<input checked="" type="checkbox"/>	D	PACKAGING AND MARKING	9	PART IV - REPRESENTATIONS AND INSTRUCTIONS			
<input checked="" type="checkbox"/>	E	INSPECTION AND ACCEPTANCE	10	<input checked="" type="checkbox"/>	K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS	34
<input checked="" type="checkbox"/>	F	DELIVERIES OR PERFORMANCE	11	<input checked="" type="checkbox"/>	L	INSTR., CONDS., AND NOTICES TO OFFERORS	35
<input checked="" type="checkbox"/>	G	CONTRACT ADMINISTRATION DATA	17	<input checked="" type="checkbox"/>	M	EVALUATION FACTORS FOR AWARD	37
<input checked="" type="checkbox"/>	H	SPECIAL CONTRACT REQUIREMENTS	22				
OFFER (Must be fully completed by offeror)							
NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.							
12. In compliance with the above, the undersigned agrees, if this offer is accepted within _____ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.							
13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52-232-8)		10 CALENDAR DAYS (%)		20 CALENDAR DAYS (%)		30 CALENDAR DAYS (%)	
						15 days .5% .005	
14. ACKNOWLEDGEMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offers and related documents numbered and dated):							
15A. NAME AND ADDRESS OF OFFEROR CODE 112073119 FACILITY Flight Safety Technologies, Inc. 28 j Cottrell Street Mystic CT 06355		16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print) Sam Kounat Chairman + CEO		17. SIGNATURE <i>Sam Kounat</i>		18. OFFER DATE 9-2-05	
15B. TELEPHONE NUMBER AREA CODE NUMBER EXT. 860 245-0191		15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.		17. SIGNATURE		18. OFFER DATE	
AWARD (To be completed by government)							
19. ACCEPTED AS TO ITEMS NUMBERED 0001 to 0009		20. AMOUNT \$9,815,140.00		21. ACCOUNTING AND APPROPRIATION See Task Order T0001			
22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: 10 U.S.C. 2304 (c) ( ) 41 U.S.C. 253 (c) ( )		23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)		ITEM			
24. ADMINISTERED BY (if other than Item 7) See Schedule G		CODE DTS-852		25. PAYMENT WILL BE MADE BY See Schedule G		CODE DTS-823	
26. NAME OF CONTRACTING OFFICER (Type or print) Carol Ferante		27. UNITED STATES OF AMERICA <i>Carol Ferante</i> (Signature of Contracting Officer)		28. AWARD DATE 9-15-05			

DTRT57-05-D-30115

**SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS**

**B.1 CONTRACT TYPE**

- A. This is an indefinite delivery/indefinite quantity (IDIQ) task order contract, with cost-plus-fixed-fee provisions. Requirements will be placed under this contract through the issuance of task orders on a completion form basis
- B. Individual cost-plus-fixed-fee task orders will be issued on a completion type basis pursuant to FAR 16.306 (d) (1) whenever possible. If a completion type task order is not appropriate, a term type task order may be issued, pursuant to FAR 16.306(d) (2).
- C. The services and material to be ordered hereunder shall be reimbursed in accordance with the provisions of the clauses herein entitled, Allowable Cost and Payment (FAR 52.2 16-7) and Fixed Fee (FAR 52.2 16-8), the terms of which are construed to apply, on an individual basis, to each task order issued. For the purpose of establishing the fixed fee for each task order issued under this contract, refer to the clause in Section G.5 entitled, Payment of Fee - IDIQ.

**B.2 CONTRACT LIMITATIONS**

**B.2.A Maximum Contract Value**

The value of all task orders placed under this contract shall not exceed \$9,815,140.00.

**B.2.B. Minimum Guarantee**

The minimum guarantee is at least \$2,500.00 worth of task orders to be issued under this contract. The minimum guarantee amount will be satisfied by the issuance of the first

task order under this contract done concurrently with the contract award.

## B.2 CONTRACT SCOPE (MAY 1999)

The Contractor, acting as an independent contractor and not as an agent of the Government, shall furnish all personnel, facilities, support, and management necessary to provide the services required under this contract and its subsidiary task orders. The scope of this effort is defined in the Statement of Work (SOW). Specific requirements will be stated in individual task orders.

### B.3 SERVICES AND PRICES

CLIN	SUPPLIES/SERVICES	QTY	UNIT ESTIMATED COST	UNIT FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001	Task 1 Denver 2005 Data Analysis & Report	1	\$1,436,834	\$100,578	\$1,537,412
0002	Task 2 System Expansion to 32 Beams	1	\$2,534,553	\$177,419	\$2,711,972
0003	Task 3 System Software Upgrade	1	\$1,126,422	\$78,850	\$1,205,272
0004	Task 4 Technical Risk Mitigation	1	\$583,484	\$40,844	\$624,328
0005	Task 5 Billboard Configuration	1	\$526,077	\$36,825	\$562,902
0006	Task 6 RIV Noise Reduction	1	\$334,460	\$23,412	\$357,872
0007	Task 7 WVNS ConOps	1	\$980,437	\$68,631	\$1,049,068
DTRT57-05-D-30115					
0008	Task 8 Field Test Preparation	1	\$1,208,845	\$84,619	\$1,293,464
0009	Task 9 Program Management	1	\$441,916	\$30,934	\$472,850
	<b>TOTAL (0001-0009)</b>		<b>\$9,173,028</b>	<b>\$642,112</b>	<b>\$9,815,140</b>

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## SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

### C.1 Background

National Aeronautics and Space Administration (NASA) and the Federal Aviation Administration (FAA) have jointly prepared a Wake Turbulence Research Management Plan (WTRMP), which has been discussed extensively with non-governmental stakeholder organizations (commercial air carriers, aircraft manufacturers, pilot unions and controller unions). This plan is comprised of FAA-led near-term wake-vortex-mitigation procedural changes (primarily for closely spaced parallel runways), joint FAA/NASA mid-term procedural changes that incorporate new weather collection/prediction technologies, and long-range active wake prediction solutions led by NASA. The objective of this research is to reduce the current wake turbulence (WT) separation requirements without compromising safety. NASA seeks to accomplish this by developing a system to inform controllers when new, reduced separation standards could not be used safely and current, larger separation distances would be employed. This system would provide for weather and wake vortex monitoring, analysis, and prediction. It would include a controller display indicating safe separation intervals for the operative weather conditions. The ultimate success of the NASA elements of the WTRMP will only occur upon FAA acceptance of these new systems/procedures into the National Airspace System (NAS) based on a finding that they are safe and effective.

The purpose of this Statement of Work (SOW) is to record the agreements between NASA's Langley Research Center (LaRC) and the U.S. Department of Transportation (DOT) Volpe National Transportation Systems Center (Volpe Center). The tasks to be accomplished by the Volpe Center will support NASA LaRC's development of a system concept and operational capability for a wake vortex advisory system (WVAS) at airports to improve airport safety and capacity. Specifically, this work seeks to develop a wake sensor based on wake acoustic emissions that employs an array of laser beams termed the SOCRATES<sup>1</sup> concept.

### C.2 Scope

Under this Agreement, the Contractor shall support the Government in following areas:

- Expand and enhance the previously developed SOCRATES sensor by increasing the number of beams and the sensitivity of individual beams;
- Prepare for a test to determine its capability as an airport operational wake turbulence sensor;
- Expand and build on prior work on Theory and Modeling of the formation and behavior of wake turbulence acoustic emanations;
- Continue the development of a Concept of Operations for a wake vortex advisory system;
- Conduct activities needed for an anticipated test of the prototype SOCRATES system at Denver International Airport during the summer of 2005 and 2006.

The services include some, but not all efforts required for development of a wake turbulence advisory system, associated field logistics, test plan development, conduct of field testing, reporting on the effectiveness of the wake turbulence advisory system and integration within the airport environment.

### C.3 Objective

The objective of this work is the development and testing of a prototype laser-acoustic wake vortex detection and tracking system with potential applicability within an operational airport environment. Airport capacity is dependent upon numerous factors, including weather, airport configuration, aircraft types and the wake vortex spacing requirements. With the modernization of the NAS, which includes improved weather sensors and the exchange of aircraft data, new sensors and data will assist with the improvement of airport capacity. However, wake vortices and the present conservative spacing requirements can limit the improvements in NAS capacity. An important potential NAS improvement is an adaptive aircraft separation system for takeoffs and landings that requires the ability to localize and track wakes in both lateral and vertical position, so that the determination can be made whether a wake is or will be in a specific airspace volume of significance to other aircraft. Development of a laser-acoustic wake vortex sensor has the potential to provide NAS users with the benefits of new procedures to

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<sup>1</sup>SOCRATES: Sensor for Optically Characterizing Remote Turbulence Emanating Sound

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improve airport capacity without compromising safety.

#### **C.4 Tasks**

##### **Task 1: Denver 2005 Data Analysis and Report**

The Contractor shall perform a detailed analysis of the data recorded during the September 2005 field test of the 16-beam SOCRATES™ sensor at Denver International Airport, including additional off-line analyses suggested by the "quick-look" test results and data from environmental, acoustic, or other wake-tracking sensors operated by the Government or other contractors. The Contractor shall provide documentation on all enhancements to the SOCRATES™ sensor. As part of the development effort, the Contractor shall prepare and present a Preliminary Design Review (PDR) and Critical Design Review (CDR) for Government review and approval.

##### **Task 2: System Expansion to 32 Beams**

The Contractor shall complete the expansion of the current 16-beam SOCRATES™ prototype sensor to a 32-beam system. The Contractor shall further enhance the SOCRATES™ sensor capabilities to detect and, to the extent possible, classify and localize wake vortices both in and out of ground effect and, in particular, in the landing approach corridor. The Contractor shall provide documentation on all enhancements to the SOCRATES™ sensor. As part of the development effort, the Contractor shall prepare and present a Preliminary Design Review (PDR) and Critical Design Review (CDR) for Government review and approval.

##### **Task 3: System Software Upgrade**

The Contractor shall design and implement capability improvements to the SOCRATES™ System Software as required for the expansion of the sensor and for improvements in detection, classification and tracking of wake vortices. Improvements shall include the use of focused array beam forming to estimate the position of wakes in the approach volume of landing aircraft, as well as increases in processing speed and reliability. As part of the software upgrade the Contractor shall prepare and present a Preliminary Design Review (PDR) and Critical Design Review (CDR) for Government review and approval.

##### **Task 4: Technical Risk Mitigation**

The Contractor shall develop a candidate set of technical risk mitigation steps that address both the system hardware and software elements. The Contractor shall consider, but not be limited to the following candidates: improved laser and optical system performance, careful analysis and factory testing of the support structure that will be used in the billboard array field test, and reduced receiver noise based on reduced-temperature electronics. The Contractor shall present the candidate set to the Government for approval, and upon approval shall implement those found to have the greatest benefit.

##### **Task 5: Billboard Configuration**

The Contractor shall design the components for a 32-beam laser-acoustic wake detection/tracking system based on the SOCRATES™ concept. The system shall be capable of operation with the plane of the laser array oriented at or near vertical relative to the ground, and capable of deployment off the runway centerline. The 32 beams shall be capable of operation in a single, "focused" configuration, or with the beams "split" into two groups of 16, to provide estimates of both range and angular position of the wake vortices. The system shall be designed to have the ability to distinguish between relatively loud sound generated by approaching aircraft and the relatively weak acoustic signal emanating from the wake.

##### **Task 6: RIV Noise Reduction**

The Contractor will pursue technical approaches to the suppression and mitigation of noise from both internal and external sources, with particular emphasis on Refractive-Index Variability (RIV) noise - the effect of various-sized volumes of air with varying temperature and humidity moving through the laser beams. This will include refinement of methodologies for mounting laser projectors and reflecting mirrors and shielding the fiber optic transmissions and internal system electronics from noise and vibration sources. The Contractor will conduct experiments to quantify the gains available from this technology.

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##### **Task 7: WVAS ConOps**

The Contractor shall continue refinement and expansion of the Government's Phase 3 Concept of Operations (ConOps) addressing WakeVAS airport operations including a sensor based on the SOCRATES™ concept. The ConOps shall relate requirements for weather and vortex behavior monitoring to take best advantage of information provided by the SOCRATES™ sensor, and shall describe additional sensors, communications and display subsystems that may be needed in an implementation of a WakeVAS. The Contractor will work closely with Government and industry partners to design a WakeVAS emulation during the field test to be executed under future Government sponsorship. The Contractor shall also support the Government in briefing airports and other stakeholders on WakeVAS.

##### **Task 8: Field Test Preparation**

The Contractor shall prepare the system for deployment/testing at a site to be determined by the Government. Contractor activities shall include: review of system design to determine fragile elements. Design/selection of packing containers, arrangement for transportation, and interaction with Government personnel performing Task V3.

##### **Task 9: Project Management**

The Contractor shall provide monthly management status reports describing the previous month's accomplishments and next month's activities. The Monthly Report shall also include a financial summary, which shall include last month's expenditures and next month's anticipated expenditures. The financial summary shall also include a spend plan indicating projected spending as a function of task and month. The Contractor's financial progress will be monitored against the spend plan. If the Contractor exceeds the spend plan, the Contractor shall proffer solutions to reduce the cost to the cost submitted to the Government at the time of proposal.



The Contractor shall meet with the Government, at least every third month, to discuss status and progress of technical activities and to engage in an interactive discussion of related technical activities with other participating organizations.

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## APPENDIX 1

### WAKE TURBULENCE DEFINITIONS

In the course of discussing the various aspects of wake behavior both in ground effect and out of ground effect, a number of terms have been used that have not been defined sufficiently to avoid confusion since there does not seem to be universally accepted definitions of these terms. Also, since some of these terms are also used not only in discussions and conversation relative to wake behavior but also in contract statements of work, it is essential that a consistent set of definitions be used. In this volume, the terms Detection, Classification, Localization, Tracking, and Characterization, as they apply to wake turbulence, will be defined.

The definitions of the terms that apply to this SOW are as follows:

1. **Detection:** The sensing of an atmospheric phenomenon during a given dynamic sensor search sequence that was not there during the previous search sequence and persists for some number of subsequent sensor sequences. For non-search sensors, static sensors, it may also be defined as the appearance of information that is sustained signifying the existence of an atmospheric phenomenon. (D<sub>0</sub>, D<sub>5</sub>)
2. **Classification:** The unique identification of wake turbulence from the variety of possible atmospheric phenomena. (Cw)
3. **Localization:** Identification of the position in space of the wake turbulence. This must further be clarified as to whether it is a two or three-dimensional localization. (L2, L3)
4. **Tracking:** The localization of the wake turbulence as a function of time as determined by the sensor search sequence rate. Tracking may also be interpreted as locking onto and following the wake in its motion path. The former may be called passive tracking since it is really continuous localization. The latter may be called active tracking and may require additional sensor system capabilities including active position extrapolation through prediction. (Tp, TA)
5. **Characterization:** Defining the state of the wake. Some of the properties of the state of the wake are circulation and, perhaps, axial orientation. Additional properties, and this is not intended to be an all inclusive listing of properties of interest, such as wake stability, turbulence, acoustics, and the velocity profile may also, under some circumstances, be defined as part of characterization. (Cc, C<sub>0</sub>, C~, CT, CA, Cv)

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### SECTION D - PACKAGING AND MARKING

#### **D.1 MARKING (MAY 1999)**

All items submitted to the Government shall be clearly marked as follows:

- A. NAME OF CONTRACTOR;
- B. CONTRACT NUMBER;
- C. TASK ORDER NUMBER; (If Applicable)
- D. DESCRIPTION OF ITEMS CONTAINED THEREIN;
- E. CONSIGNEE'S NAME AND ADDRESS; and
- F. If applicable, packages containing software or other magnetic media shall be marked on external containers with a notice reading substantially as follows: "CAUTION: SOFTWARE/MAGNETIC MEDIA ENCLOSED. DO NOT EXPOSE TO HEAT OR MAGNETIC FIELDS".

#### **D.2 PACKAGING (MAY 1999)**

The Contractor shall ensure that all items are preserved, packaged, packed, and marked in accordance with best commercial practices to meet the packing requirements of the carrier and ensure safe delivery at destination

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### SECTION E - INSPECTION AND ACCEPTANCE

#### **E.1 FAR 52.252-2 Clauses Incorporated by Reference. (FEB 1998)**

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address (es):

<http://www.dot.gov/ost/m60/tamtar>

<http://www.farsite.hill.af.mil/vffr.htm>

<http://www.arnet.gov/far>

52246.3 Inspection of Supplies - Cost Reimbursement MAY 2001

52.246-5 Inspection of Services - Cost Reimbursement APR 1984

## **E.2 GOVERNMENT REVIEW AND ACCEPTANCE (MAY 1999)**

A. Technical inspection and acceptance of all work, performance, reports, and other deliverables under this contract shall be performed at the location specified in an individual task order. The task order shall also designate the individual responsible for inspection and acceptance, as well as the basis for acceptance. Task order deliverable items Rejected shall be corrected in accordance with the applicable clauses.

B. Unless otherwise stated in the individual task order, the Government requires a period not to exceed thirty (30) days after receipt of the final deliverable item(s) for inspection and acceptance or rejection. Final acceptance rests with the Contracting Officer or designee.

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## **SECTION F - DELIVERIES OR PERFORMANCE**

### **F.1 FAR 52.252-2 Clauses Incorporated by Reference. (FEB 1998)**

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.dot.gov/ost/m60/tamtar>

<http://www.farsite.hill.af.mil/vffr.htm>

<http://www.arnet.gov/far>

52.242-15 Stop-Work Order. AUG 1989

52.242-15 Stop-Work Order - Alternate 1 APR 1984

### **F.2 CONTRACT PERIOD OF PERFORMANCE (MAY 2003)**

The period of performance of the contract shall be five (5) years from the date the Contracting Officer signs the contract award (effective date of the contract)

### **F.3 RIGHTS IN DATA (DEC 1998)**

All data first produced in the performance of this contract, including software, shall be delivered with unlimited Government rights, unless otherwise agreed to in writing by the Contracting Officer when granting permission to establish claim to copyright as required by FAR 52.227-14(c).

### **F.4 TECHNICAL REPORTS -- TASK ORDER CONTRACTS (SEP 1999)**

Task orders that identify technical reports as a deliverable will culminate in one of two types: letter type or technical. The letter type will be used primarily for smaller tasks such as data validation, field support, task planning documents, literature searches, analysis plans, conference-planning documents, and schedules. A formal technical report may be required for major tasks and may include earlier letter type reports as subsections. The task order will specify the type of reports as well as the formatting and the number of copies required. The reports submitted shall be subject to review and approval by the Volpe Center Contracting Officer's Technical Representative (COTR) or Task Order COTR and, if necessary, will be modified and resubmitted. The Contractor shall submit a final report incorporating the COTR's comments on the draft final report. The number and delivery schedule will be specified in each task order. Most final reports shall be submitted on disks and in hard copy in a format specified in the task order.

### **F.5 DELIVERIES -- TASK ORDER CONTRACTS (DEC 1998)**

Delivery of supplies, services, written documents, etc (including required formats and delivery locations) will be in accordance with the task order requirements. All correspondence and reports related to each task order shall be delivered to the cognizant Contracting Officer and/or designated Contracting Officer's Technical Representative (COTR) as specified in the task order.

### **F.6 PLACE OF CONTRACT PERFORMANCE -- OTHER THAN ON-SITE CONTRACTS (MAY 1999)**

Performance in or use of Government facilities by the Contractor is not authorized under this contract without the prior approval of the Contracting Officer. This approval will be in the form of a modification to the contract or task.

### **F.7 MEETINGS AND ORAL PRESENTATIONS (DEC 1998)**

The Contractor shall meet with the Volpe Center Contracting Officer's Technical Representative (COTR) at regular intervals to discuss the status of the work and make oral presentations. In addition, the Contractor shall meet with the COTR and other personnel engaged in the program at a location to be established by the COTR to discuss critical areas revealed by the contractor's work

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### **F.8 DOCUMENTATION OF COMPUTER PROGRAMS (MAR 2005)**

The Contractor shall fully document all computer programs under its purview and, in so doing, comply with documentation standards such as the traditional MIL-STD-498 or the more current standard, IEEE/EIA 12207. Unless otherwise specifically agreed to by the Contracting Officer in writing, the Contractor shall deliver the computer program source and object code accompanied by the appropriate support documentation. See System Documentation in Section C.4.C.3.g. above for the required document types.

#### **F.9 MONTHLY TASK ORDER COST REPORTS - (MAY 1999)**

Monthly cost reports will be submitted by the Contractor, except for fixed price tasks, setting forth monthly and cumulative (1) direct labor hours by categories as set forth in the task including subcontract hours, and (2) elements of cost by direct loaded labor dollars, subcontracts, and other direct costs, etc., which have been incurred and/or committed. Proprietary rate information should not be disclosed. The costs that have been committed but are unpaid to date will be noted. Where cumulative amounts on the monthly reports differ from the aggregate amounts contained in the request(s) for contract financing payments covering the same period, the Contractor must provide a reconciliation of the difference as part of the monthly report. In these reports, the Contractor shall also make its current assessment of completing the remaining work within the remaining funds. A graph shall be prepared by the Contractor using the vertical axis for dollars and the horizontal axis for time that shows actual and projected rates of expenditures for the Task Order. THE SUBMISSION OF THESE REPORTS DOES NOT RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITY UNDER THE LIMITATION OF COSTS OR FUNDS CLAUSES, APPLICABLE TO EACH TASK ORDER AND IDENTIFIED IN SECTION I OF THIS CONTRACT. The Volpe Center may require that the report be submitted in a designated format.

#### **F.10 MONTHLY TASK ORDER PROGRESS REPORTS (MAY 1999)**

A monthly progress report shall be submitted for all ongoing task orders. The Volpe Center may require that the report be submitted in a designated format. At a minimum, the report will cover the following items:

- A. The work performed during the previous month.
- B. Significant findings, problems, delays, events, trends, etc. during the reporting period which result from or affect the performance of the task order.
- C. Detailed technical description of the work planned for the next reporting period.
- D. Specific action requested of the Government to assist in the resolution of a problem or to effect the timely progression of the task order.
- E. An up-to-date schedule of the work performed and work to be performed under the task order. A chart shall be presented reflecting planned project accomplishments versus actual accomplishments in terms of time.

#### **F.11 WARRANTIES (MAY 1999)**

With respect to equipment or supplies acquired under this contract, title of which will pass to the Government, the Contractor shall ensure that any warranties, together with rights to replacement, service, or technical assistance, shall run to or automatically be assigned to the Government.

#### **F.12 REPORTS OF WORK -- REPORT DISTRIBUTION (MAY 1999)**

Nothing set forth herein regarding number of copies shall be construed as authority to disregard the provisions of the clause of this contract entitled "Printing".

##### A. Contract Progress Report:

1 copy CO or Administrative Contracting Officer (ACO)

1 copy COTR

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##### B. Monthly Task Order Progress Reports:

1 copy CO/ACO

1 copy COTR

1 copy task order COTR (as applicable)

##### C. Monthly Task Order Cost Reports:

1 copy CO/ACO

1 copy COTR

1 copy task order COTR (as applicable)

##### D. Technical Reports

The number of copies and recipients will be determined in each task order. The Contractor shall provide a copy of the cover letter transmitting final submission of technical deliverables to the designated ACO.

#### **F.13 CONTRACT PROGRESS REPORT (MAY 1999)**

A. A contractor, which has been awarded one or more task orders, shall provide monthly overall progress reports. The progress reports shall be provided to the CO or his designee not later than the 15th of each month. The reports shall be submitted in a designated format. The Government may require submission of reports electronically in a format to be specified.

B. The monthly progress reports shall address all activity under the contract through the last day of the previous month.

C. The monthly progress report shall contain the following information:

- (1) A listing of all new task orders accepted for the preceding month, including, for each:
  - a. Task order number and date of issuance;
  - b. Brief description of work covered by task order, including estimated hardware/software amounts (if applicable);

- c. Amount obligated under task order;
- d. Total potential task order amount (including options);
- e. Key milestones (including date of first and last deliverable);
- f. Subcontractor information, if applicable (including name(s), classification of subcontractor (i.e., small, disadvantaged, large, etc.), type of effort being performed, estimated amount/percentage of work to be done by subcontractor(s));
- g. Type of task order (i.e., firm-fixed-price, cost-plus-fixed-fee, cost-plus-award-fee); and
- h. Key personnel assigned to task order, including prime Contractor contact point and phone number for task order.

(2) A listing of all ongoing task orders (excluding those from paragraph (1) above) including:

- a. Task order number and date of issuance;
- b. Any modifications to the task order;
- c. Summary of dollars expended to date per task order;
- d. Estimated percentage of work yet to be completed on the task order;
- e. Progress in meeting subcontracting goals and performance measures under the task order (if applicable); and
- f. Any updates/revisions to the information provided under paragraph (c) (1) of this clause.

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(3) A listing of all completed task orders, including:

- a. Task order number and date of issuance;
- b. Number and value of modifications issued for the task order;
- c. Completion date of task order and whether or not inspection and acceptance has been performed by Government;
- d. Total dollar amount of task order, including modifications;
- e. Success/failure in meeting subcontracting goals and performance measures under the task order (if applicable);
- f. Any updates/revisions to the information provided under paragraph (C) (1) or (C) (2) of this clause; and
- g. Status of performance evaluation comments.

(4) Significant findings, problems, delays, events, trends, etc. during the reporting period which result from or affect the performance of any task order and any perceived problems which affect the base contract.

D. The data required in paragraphs (A) through (C) above, along with other relevant information required, shall be subject to inclusion in a past performance database developed and maintained by the Government.

#### F.14 DELIVERIES AND SCHEDULE

	<b>Title</b>	<b>Deliverable</b>
Task 1	Denver 2005 Data Analysis and Report	<p><b>Schedule</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 90 days, following the receipt of finding.</li> </ul> <p><b>Deliverables</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Draft Report, 30 days following completion of DIA Socrates Test.</li> <li><input type="checkbox"/> Final Report, 60 days following completion of DIA Socrates Test.</li> </ul>
Task 2	System Expansion to 32 Beams	<p><b>Schedule</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 12 months, beginning upon receipt of funding.</li> </ul> <p><b>Deliverables</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Preliminary Design Review (PDR), 3 months after receipt of funding.</li> <li><input type="checkbox"/> Critical Design Review (CDR), 6 months after receipt of funding.</li> </ul>

Task 3	System Software Upgrade	<p><b>Schedule</b></p> <ul style="list-style-type: none"> <li>□ 12 months, beginning upon receipt of funding</li> </ul> <p><b>Deliverables</b></p> <ul style="list-style-type: none"> <li>□ Preliminary design Review (PDR), 3 months after receive of funding.</li> <li>□ Critical Design Review (CDR), 6 months after receipt of funding.</li> </ul>
Task 4	Technical Risk Mitigation	<p><b>Schedule</b></p> <ul style="list-style-type: none"> <li>□ 12 months, beginning upon receipt of funding</li> </ul> <p><b>Deliverables</b></p> <ul style="list-style-type: none"> <li>□ Presentation of candidate set of risk reduction steps, 6 months after receipt of funding.</li> <li>□ Presentation of results of implementing risk reduction steps, 12 months after receipt of funding.</li> </ul>
Task 5	Billboard Configuration	<p><b>Schedule</b></p> <ul style="list-style-type: none"> <li>□ 12 months, beginning with approval of the PDR for both Tasks C1 and C2.</li> </ul> <p><b>Deliverables</b></p> <ul style="list-style-type: none"> <li>□ System Status Review, 6 months after approval to proceed.</li> <li>□ Factory Acceptance Test (FAT) at the contractor's facility, 12 months after approval to proceed.</li> </ul>
Task 6	RIV Noise Reduction	<p><b>Schedule</b></p> <ul style="list-style-type: none"> <li>□ 10 months, beginning with receipt of funding.</li> </ul> <p><b>Deliverables</b></p> <ul style="list-style-type: none"> <li>□ Presentation of noise reduction techniques and initial assessment of their effectiveness, 5 months after receipt of funding.</li> <li>□ Presentation of measured/calculated effectiveness of noise reduction techniques, 10 months after receipt of funding.</li> </ul>

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Task 7	WVAS Con Ops	<p><b>Schedule</b></p> <ul style="list-style-type: none"> <li>□ 8 months, beginning upon receipt of funding</li> </ul> <p><b>Deliverables</b></p> <ul style="list-style-type: none"> <li>□ WVAS ConOps Description document, 8 months after receipt of funding</li> </ul>
Task 8	Field Test Preparation	<p><b>Schedule</b></p> <ul style="list-style-type: none"> <li>□ 3 months, beginning with notification to proceed</li> </ul> <p><b>Deliverables</b></p> <ul style="list-style-type: none"> <li>□ System Deployment Planning Meeting, upon notification to proceed with task.</li> <li>□ Deployment Readiness Meeting, 3 months after notification to proceed with task.</li> </ul>

Task 9	Project Management	<p><b>Schedule</b></p> <p>☐ 14 months, beginning upon receipt of funding</p> <p><b>Deliverables</b></p> <p>☐ Management Status Reports, monthly beginning upon receipt of funding</p> <p>☐ Program Status Briefings, 3, 6, 9, and 12 months after receipt of funding.</p>
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**SECTION G - CONTRACT ADMINISTRATION DATA**

**G.1 TAR 1252.242-73 CONTRACTING OFFICERS TECHNICAL REPRESENTATION (OCT 1994)**

A. The CO may designate Government personnel to act at the CO's Technical Representative (COTR) to perform functions under the contract such as review and/or inspection and acceptance of supplies and services, including construction and other functions of a technical nature. The CO will provide a written notice of such designation to the contractor within five working days after award or for construction, not less than five working days prior to giving the contractor the notice to proceed. The designation letter will set forth the authorities and limitations of the COTR under the contract.

B. The CO cannot authorize the COTR or any other representative to sign documents (i.e., contracts, contract modifications, etc) that require the signature of the CO.

**G.2 RESPONSIBILITY FOR CONTRACT ADMINISTRATION (DEC 1998)**

**Contracting Officer:** The Contracting Officer (CO) has the overall responsibility for this contract. The CO alone, without delegation, is authorized to take actions on behalf of the Government to amend, modify, or deviate from the contract terms, conditions, requirements, specifications, details and/or delivery schedules. However, the CO may delegate certain other responsibilities to his/her authorized representatives.

**Administrative Contracting Officer:** An Administrative Contracting Officer (ACO) may be designated by the Contracting Officer. The duties of an ACO include but are not limited to: analyzing and making recommendations on the Contractor's proposals, offers, or quotations upon request of the Contracting Officer and approving Contractor's invoices in accordance with the terms of the contract.

**Contracting Officer's Technical Representative:** A Contracting Officer's Technical Representative (COTR) will be designated by the Contracting Officer. The responsibilities of the COTR include but are not limited to: inspecting and monitoring the Contractor's work; determining the adequacy of performance by the Contractor in accordance with the terms and conditions of this contract; acting as the Government's representative in charge of work at the site to ensure compliance with contract requirements in so far as the work is concerned; and advising the Contracting Officer of any factors which may cause delay in performance of the work. The COTR does not have the authority to make new assignments of work or to issue directions that cause an increase or decrease in the price of this contract or otherwise affect any other contract terms.

**Task Order Contracting Officer's Technical Representative:** The Contracting Officer may designate a Task Order Contracting Officer's Technical Representative (TOCOTR). The TOCOTR will perform the duties of the COTR in connection with the technical oversight of an individual task order.

The Contracting Officer, Administrative Contracting Officer, and Technical Representatives are located at:

U.S. DOT/RITA/VOLPE CENTER  
 55 BROADWAY  
 CAMBRIDGE, MA 02 142-1093

**G.3 PAYMENTS UNDER COST REIMBURSEMENT CONTRACTS (MAR 2005)**

A. One original and five copies of an invoice or contract financing requests shall be submitted, covering the amount claimed to be due, services rendered, and cost incurred hereunder. Under ID/IQ contracts, separate invoices or contract financing requests must be submitted for each task. However, all interim payment requests for tasks under the contract must be submitted concurrently. The contractor shall submit a last interim invoice for each task order. This shall include a complete list of invoices previously tendered under the task order. The last interim invoice shall consist of the completion invoice (clearly identified in accordance with FAR 52.216-7) prior to the establishment of final annual indirect rates. The last interim invoice shall be submitted within six (6) months of the task order's physical completion. If changes to this invoice become necessary as a result of Government review, the contractor shall submit a corrected last interim invoice. The contractor shall submit this invoice, along with the contractor's release form, DOT F 4220.4, to the CO,

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following the final adjustment of its annual indirect rates per FAR 52.216-7.

B. In addition to the information required by FAR 52.216-7 and FAR 52.232-25 incorporated by reference in Section I, an invoice or contract financing payment request must meet the following requirements:

Consecutively number each interim payment request beginning with No. 1 for each task.

The voucher shall include current and cumulative charges by major cost elements such as direct labor, overhead, subcontracts, and other direct costs. Cite direct labor hours incurred by the prime contractor and each subcontractor. Other direct costs must be identified, e.g., travel, per diem, material, and equipment.

Requests for contract financing or invoices must clearly indicate the period of performance for which payment is requested and the Volpe Center accounting information necessary to process payments. When contracts or task orders contain multiple lines of accounting data, charges that cannot be assigned to a single line of accounting information should be allocated based on the percentage of total dollars unless otherwise specified.

When the contractor submits vouchers on a monthly basis, the period covered by invoices or requests for contract financing payments must be the same as the period for

monthly progress reports reported under the contract or tasks. If, in accordance with FAR 52.216-7, the contractor submits requests for invoices or contract financing payments more frequently than monthly, one payment request per month must have the same ending date as the monthly progress report.

Pending settlement of the final indirect rates for any period, the contractor shall be reimbursed at billing rates approved by the Cognizant Federal Agency (CFA). The contractor shall ensure that any change in the identity of the CFA responsible for establishment of its indirect rate factors is made known to the Volpe Center CO. These rates are subject to appropriate adjustments when revised by mutual agreement or when the final indirect rates are settled either by mutual agreement or unilateral determination by the CFA (see FAR 42.704). In accordance with FAR 52.2 16-7, the contractor shall submit to the CFA a proposal for final indirect rates based on the contractor's actual costs for the period, together with all supporting data. In addition, contractors are required by the CFA to submit billing rate proposals, usually no later than thirty (30) days after the close of its fiscal year for the ensuing fiscal year to the CFA. Copies of the cover letter submitting the proposal must be provided to the Volpe Center CO. The contractor's failure to provide the rate proposal in a timely manner may impact payment of financing requests and could ultimately result in suspension of the indirect expense portion. The contractor shall provide copies of all rates established by the CFA to the Volpe Center CO. It is imperative that the CO be provided signed copies of all rate agreements since these rate agreements must be in the possession of the Volpe Center before any rates contained therein can be used by the contractor for cost reimbursement. The contractor should note that absence of final rates determination does not relieve the contractor of its responsibility under the Limitation of Funds or Limitation of Costs clauses to report in a timely manner to the CO when it has reason to believe its costs may exceed the total estimated cost or funds allotted to the task order.

#### **G.4 PAYMENT OF FEE - COST-PLUS-FIXED-FEE COMPLETION (DEC 1998)**

A. Requests for provisional fee payment must be based on and be consistent with the information stated in the contract or task financing request. However, the request must be submitted separately.

B. For term-type task orders, a portion of any fixed fee specified in the task order will be paid on a provisional basis. The amount of such payments will be based on the ratio of direct professional labor hours expended during the covered period to the direct professional labor hours specified in the task order. Direct professional labor hours include only the labor categories specified for the task order such as engineers, scientists, technicians, statisticians, and programmers and not administrative or support personnel such as company management, typists, and key punch operators, even though such administrative personnel are normally treated as direct labor by the Contractor. At the time of issuance, a term-type task order will state the requirements for earning full fixed fee by including one of the following clauses:

(1) The total fee for each term-type task shall be payable upon acceptance of the work by the Government and upon receipt of a written certification from the Contractor that the level of effort specified in the task order has been expended.

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(2) The total fee for each term-type task shall be payable upon acceptance of the work by the Government and upon receipt of a written certification from the Contractor that at least 90% of the level of effort specified in the task order has been expended. If the Contractor provides less than 90% of the level of effort specified in the task order, the fixed fee will be adjusted downward based on each hour not provided of the full level of effort specified. If the Contractor has provided 100% of the level of effort specified in the task order and the cost incurred is below the estimated cost, the Government may require the Contractor to provide additional effort up to 110% of the level of effort specified in the task order until the estimated cost has been reached. However, this additional effort shall not result in any increase in the fixed fee.

C. If a performance is considered satisfactory; the Government may make provisional fee payments subject to FAR 52.216-8 on the basis of percentage of work completed, as determined by the Contracting Officer for completion-type tasks. The Contractor shall be required to complete the specified end product (e.g., a final report or working system) within the estimated cost as a condition for payment of the entire fixed fee. In the event the work cannot be completed within the estimated cost, the Government may require more effort without any increase in fee, provided the Government increases the estimated cost. If the Government chooses not to increase the estimated cost, the fixed fee payable will be based on the Contracting Officer's determination of the percentage of completion of the specified end product(s).

D. Provisional payment of fee will be subject to other relevant clauses of the contract including retainage.

#### **G.5 PERFORMANCE EVALUATIONS (AUG 05)**

A. Performance evaluations shall be done for each completed task order over \$100,000 and for selected tasks for lower amounts as determined by the Contracting Officer. Performance evaluations shall also be completed at least annually for task orders that have a performance period in excess of one year. (The performance evaluation form shown in Attachment J. 1, or equivalent form, shall be used.)

B. The Contracting Officer or designee shall submit the completed evaluation to the Contractor for comment. The Contractor shall have 30 days in which to respond. The Government will consider any comments provided by the Contractor before finalizing the Performance Report and the Contractor's comments will be attached to the Report.

#### **G.6 VOUCHER REVIEW (MARCH 2003)**

The Government may at its sole discretion utilize a contractor to review vouchers and supporting data submitted for payment under the provisions of this contract. The contractor reviewing vouchers and supporting data will perform this function in accordance with contract provisions which prohibit disclosure of proprietary financial data or use of such data for any purpose other than to perform accounts payable services.

#### **G.7 INCREMENTAL FUNDING OF TASK ORDERS (OCT 2001)**

Pursuant to FAR 52.232-22, Limitation of Funds (APR 1984), incorporated by reference herein, task orders issued under this contract may be incrementally funded.

A. When a term form task order is incrementally funded, the following clause will be set forth in full in the task order:

##### **LIMITATION OF LIABILITY - INCREMENTAL FUNDING (TERM FORM)**

(1) The amount available for payment for this incrementally funded task order is hereby increased from \$ \_\_\_\_\_ by \$ \_\_\_\_\_ to \$ \_\_\_\_\_. The amount allotted to the estimated cost is increased from \$ \_\_\_\_\_ by \$ \_\_\_\_\_ to \$ \_\_\_\_\_. The amount obligated for the fixed fee/award fee is increased from \$ \_\_\_\_\_ to \$ \_\_\_\_\_. This modification involves no change in the total level-of-effort, estimated costs or fixed fee/award fee of this contract, unless otherwise specified herein. The Limitation of Funds clause, FAR 52.232-22, applies to the amount allotted to cover the estimated costs only.

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(2) The estimated level of effort applicable to the incremental funding provided herein is \_\_\_\_\_ professional labor-hours.

(3) The incremental funding provided herein is estimated to be adequate for services performed through \_\_\_\_\_

B. When a completion-type task order is incrementally funded, the following clause will be set forth in full in the task order.

## LIMITATION OF LIABILITY - INCREMENTAL FUNDING (COMPLETION FORM)

(1) The amount available for payment for this incrementally funded task order is hereby increased from \$ \_\_\_\_\_ by \$ \_\_\_\_\_ to \$ \_\_\_\_\_. The amount allotted to the estimated cost is increased from \$ \_\_\_\_\_ by \$ \_\_\_\_\_ to \$ \_\_\_\_\_. The amount obligated for the fixed fee/award fee is increased from \$ \_\_\_\_\_ to \$ \_\_\_\_\_. This modification involves no change in the total level-of-effort, estimated costs or fixed fee/award fee of this contract, unless otherwise specified herein. The Limitation of Funds clause, FAR 52.232-22, applies to the amount allotted to cover the estimated costs only.

(2) The incremental funding provided herein is applicable to the tasks and deliverables specified in

### G.8 ORDERING (DEC 1998)

A. The Government will order any supplies and services to be furnished under this contract by issuing by mail, facsimile, or electronically task orders on Optional Form 347 or an agency prescribed form. In addition to the Contracting Officer, the following individuals are authorized ordering officers: Designated Administrative Contracting Officers

B. A Standard Form 30 will be used to modify task orders.

C. An authorized company officer of the Contractor shall acknowledge receipt of each task order within three (3) calendar days.

D. Each task order issued may incorporate the Contractor's technical and/or cost proposals and will include an estimated cost and fixed fee or award fee or a total fixed price in the case of a fixed price task order set forth as a ceiling price. If the task order is incrementally funded, the amount available for payment and allotted to the task will also be specified. The Limitation of Funds and/or the Limitation of Cost clauses will control notification requirements when the Contractor has reason to believe it will experience an overrun of the estimated cost or allocated funds specified in a cost reimbursable type task order.

E. Under no circumstances will the Contractor start work prior to the issue date of the task order unless specifically authorized to do so by the ordering officer. Any work commenced prior to the date of authorization or task issuance will be considered unauthorized and will not be subsequently ratified.

### G.9 PAYMENT OF FIXED FEE - IDIQ (DEC 1998)

(a) The fixed fee specified in Section B of this contract represents the maximum fee that shall be paid under this contract. This fee shall be paid, subject to any adjustment required by other provisions of this contract, in installments at the time of each provisional payment for reimbursement of allowable cost. This clause addresses payment of fixed fee for both term and completion form delivery orders.

(b) A fixed fee shall be established for each delivery order issued under this contract. The fixed fee established shall be in direct ratio to the total contract fixed fee as the level of effort (direct man-hours) established in the delivery order is to the total contract level of effort (direct man-hours). The amount of each installment payment of fixed fee shall be in direct ratio of the total contract fixed fee as the net direct labor hours expended during the period is to the total contract level of effort (direct man-hours).

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(c) Completion Orders. The Contractor is entitled to the full amount of fixed fee upon the acceptable completion of the delivery order.

(d) Term Orders. No fee shall be paid under term form orders for hours not performed.

(e) Withholding. As provided in the clause entitled, Fixed Fee (FAR 52.2 16-8), the Contracting Officer hereby withholds 15% of all fixed fee payable under the contract up to the stated maximum of \$100,000. Invoices submitted under the contract shall indicate fixed fee withheld.

(f) The terms of this clause and of FAR 52.216-8 apply to the total fixed fee specified in Section B of the contract rather than to the individual orders placed hereunder.

### G.10 TECHNICAL DIRECTION (AUG 1999)

Performance of the work hereunder shall be under the technical direction of a Technical Monitor (COTR). As used herein, "technical direction" is limited to directions to the contractor which fill in details or otherwise complete the general description of work set forth in the contract. This direction may not include new assignments of work, or may not be of such a nature as to cause an increase or decrease in the estimated cost of the contract, or otherwise affect any other provision of this contract.

### G.11 ACCOUNTING AND APPROPRIATION DATA (MAY 1999)

Each individual task order shall specify the Accounting and Appropriation Data from which payment shall be made.

### G.12 TRAVEL AND PER DIEM (JULY 2000)

Travel by air will be reimbursed at actual, not to exceed coach fare, Travel subsistence reimbursement will be authorized under the rates and conditions of the Federal Travel Regulations and the Department's Travel manual (DOT 1500.6A). Per Diem will be reimbursed at actuals, not to exceed the per diem rates set forth in Federal Property Management Regulations (FPMR) 41 CFR Chapter 101, Chapter 7, General Services Administration (GSA) Bulletin FPMR A-40 Supp-(in effect at time of travel), or at said per diem rates regardless of actual cost, whichever is in accordance with the contractor's standard accounting practice or disclosure statement. The per diem allowance shall not be allowed when the period of official travel is 12 hours or less during the same calendar day. Travel by privately-owned vehicle will be reimbursed at the current GSA-approved mileage rate. If the contractor incurs travel cost in excess of the amount shown in each task order, it is at its own expense.

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## SECTION H - SPECIAL CONTRACT REQUIREMENTS

### H.1 LEVEL OF EFFORT NOTIFICATION (DEC 1998)

A. The Contractor shall notify the Administrative Contracting Officer immediately in writing whenever it has reason to believe that:

(1) The level of effort that the Contractor expects to incur under any term type task in the next 30 days, when added to the level of effort previously expended in the performance of that task order, will exceed 75% of the level established for that task order;

(2) The level of effort required to perform a particular task order will be greater than the level of effort established for the task order.

B. Either the "Limitation of Cost" or the "Limitation of Funds" clause, depending on whether the task order is fully funded or not, applies independently to each task order under this contract and nothing in this clause amends the rights or responsibilities of the parties hereto under either of these two clauses. The notifications required by this clause are separate and distinct from any specified in the "Limitation of Cost" or "Limitation of Funds" clause.



## H.2 TYPE OF CONTRACT (DEC 1998)

(a) This is a cost-plus fixed fee contract in the "Completion" form in accordance with Federal Acquisition Regulation 16.306 (d) (1). For this contract the period of performance is 5 years from the effective date of award.

(b) The contractor shall maintain a job order cost accounting system that will accumulate costs incurred for each Task Order separately. In submitting it's vouchers/invoices for payment of cost incurred hereunder, the Contractor shall list labor hours and other cost elements for each Task Order, then summarize to a billing amount.

## H.3 GPO PRINTING REQUIREMENT (DEC 1998)

All printing funded by this contract will be accomplished in conformance with Title 44, United States Code, regulations of the Joint Committee on Printing, applicable provisions of appropriation acts, and applicable regulations issued by the Government Printing Office and the Department of Transportation.

## H.4 TASK ORDER LIMITATIONS (DEC 1998)

(a) The issuance of Task Order(s) (TO) hereunder does not relieve the Contractor of its responsibilities under Clause 52.232-22, Limitation of Funds, and/or FAR 52.232-20, Limitation of Costs. The applicable clause, Limitation of Funds (LOF), for incrementally funded TOs and Limitation of Costs (LOC), for fully funded TOs apply to individual TOs as well as to the contract as a whole.

(b) Costs incurred under a TO shall relate only to the performance of the work called for in that TO. The level of effort or the funds allocated to a TO may not be applied to work under any other TO issued under the contract without the written authorization of the Contracting Officer.

(c) The term "TO" shall be substituted for "schedule wherever the word appears in FAR clauses 52,232-20, Limitation of Cost, or 52.232-22, Limitation of Funds, as specified. In the event that fully funded work orders are issued under a TO, the provisions of the appropriate clauses shall apply to each work order as if it were a TO.

## H.5 ISSUANCE OF TASK ORDERS (OCT 2001)

(a) Under this contract, as firm work requirements materialize, within the period of performance set forth herein, and within the funds allotted hereunder, the Contracting Officer will direct the Contractor to perform work as generally described in Section C. The Contracting Officer will issue such directions to the Contractor in the form of Task Orders (TOs). Prior to issuance of any TO, the Contracting Officer will discuss with the Contractor the work to be performed, the timing thereof, and will negotiate the estimated cost thereof. In the event that agreement cannot be

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reached on the estimated v cost of any TO, the Contracting Officer may unilaterally determine the estimated cost of that TO. In such event, the Contractor may seek relief or remedies as set forth in the Disputes clause. Except as specifically provided herein, the Government makes no representation as to the number of Task Orders or the actual amount of work, which will be assigned. The Contractor shall not perform any work hereunder nor incur any cost hereunder, until it receives a specific Task Order signed by the Contracting Officer. Each Task Order will contain as a minimum, the following:

1. Sequential number.
2. Type of Task Order Term or Completion
3. Statement of the problem.
4. Scope of work effort.
5. Reporting requirements.
6. Time schedule of performance.
7. Estimated level of effort to be expended.
8. Estimated cost.
9. Required signature.
10. Delivery, inspection and final acceptance points.

(b) If a Task Order will culminate in a report the TO will specify the type of report and format required.

## H.6 SALES TAX EXEMPTION (DEC 1998)

(a) The Volpe National Transportation Systems Center, as part of the Department of Transportation, an agency of the United States, is an exempt purchaser. Accordingly, all purchases of personal property by this organization are exempt from state and local taxation.

(b) The Contractor will be provided with Tax Exemption certificates for the purpose of obtaining an exemption from state sales tax for supplies purchased under this procurement (see each individual Task Order). Notwithstanding the terms of the Federal, State, and Local taxes clause, if the Tax Exempt Certificate is not honored by the state, the Contractor shall state separately on its invoices the amount of state sales tax, and the Government agrees to either pay the amount of the tax to the Contractor or, where the amount of the tax exceeds \$250.00, to provide evidence necessary to sustain the exemption.

## H.7 NON-PERSONAL SERVICES (DEC 1998)

A. No personal services as defined in Part 37 of the FAR shall be performed under this contract. No Contractor employee will be directly supervised by the Government. All individual employee assignments and daily work direction shall be given by the Contractor's supervisor. If the Contractor believes any Government action or communication has been given that would create a personal services relationship between the Government and any Contractor employee, the Contractor shall promptly notify the Contracting Officer of this communication or action.

B. The Contractor shall not perform any inherently governmental functions under this contract. No Contractor employee shall hold him or herself out to be a Government employee, agent, or representative. In all communications with third parties in connection with this contract, Contractor employees shall identify themselves as Contractor employees and specify the name of the company for which they work. In all communications with other Government Contractors in connection with this contract, the Contractor employee shall state that they have no authority to in any way change the contract and that if the other Contractor believes this communication to be a direction to change their contract, they should notify the Contracting Officer for that contract and not carry out the direction until a clarification has been issued by the Contracting Officer.

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C. The Contractor shall ensure that all of its employees working on this contract are informed of the substance of this clause. Nothing in this clause shall limit the Government's rights in any way under any other provision of the contract, including those related to the Government's right to inspect and accept the services to be performed under this contract. The substance of this clause shall be included in all subcontracts at any tier.

#### **H.8 MAXIMUM FEE/PROFIT (SEP 1999)**

A. Contractors shall propose an appropriate rate of fee depending on the risk associated with a cost-plus-fixed-fee contractual arrangement and the nature of the work in the task order. However, the proposed task order fixed fee shall not exceed an amount that is the sum of (1) 7 percent of the prime Contractor's labor and any resulting direct cost expected to be incurred as a result of that labor\*\* and any indirect cost applied and (2) 7 percent of all other direct and indirect cost proposed for the task resulting from other than the prime Contractor's effort. \* \* \* For term type tasks, an overall hourly fee will be determined by dividing the total fixed fee proposed by the direct professional labor hours required.

B. Contractors shall propose an appropriate rate of available award fee depending on the risk associated with a cost-plus-award-fee contractual arrangement and the nature of the work in the task order. In accordance with Paragraph G.7, Payment and Consideration, the base fee shall be 0%. The proposed award fee available under the task order shall not exceed an amount that is the sum of (1) \_\_\_\_\_ percent of the prime Contractor's labor and any resulting direct cost expected to be incurred as a result of that labor\*\* and any indirect cost applied and (2) \_\_\_\_\_ percent of all other direct and indirect cost proposed for the task resulting from other than the prime Contractor's effort. \* \* \*

C. For noncompetitive task orders issued on firm-fixed-price basis, Contractors shall propose an appropriate profit based on the risk associated with that contract type and the nature of the work in the task order. The proposed profit included in the firm-fixed-price shall not exceed an amount that is the sum of (1) \_\_\_\_\_ percent of the prime Contractor's labor and any resulting direct cost expected to be incurred as a result of that labor\*\* and any indirect cost applied and (2) \_\_\_\_\_ percent of all other direct and indirect cost proposed for the task resulting from other than the prime Contractor's effort. \* \* \*

\* \* Administrative or support categories accounted for as direct in accordance with approved accounting system such as secretarial support, word processing, and contract administration; and other direct cost such as travel incurred by the prime Contractor, computer usage charges, and postage.

\* \* \* Generally equipment, materials, subcontracts, and any indirect cost applied and other direct cost incurred such as subcontract administration.

#### **H.9 DOT INFORMATION SECURITY REQUIREMENTS (APR 2003)**

##### 1. Access to Sensitive Information.

a. Work under this contract may involve access to sensitive information, as described in paragraph d below, which shall not be disclosed by the contractor unless authorized by the contracting officer. To protect sensitive information, the contractor shall provide training to any contractor employee authorized access to sensitive information and, upon request of the Government, provide information as to an individual's suitability to have such authorization. Contractor employees found by the Government to be unsuitable or whose employment is deemed contrary to the public interest or inconsistent with the best interest of national security may be prevented from performing work under the particular contract when requested by the contracting officer.

b. The contractor shall ensure that contractor employees are: (1) citizens of the United States of America or an alien who has been lawfully admitted for permanent residence or employment (indicated by immigration status) as evidenced by Immigration and Naturalization Service

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documentation; and (2) have background investigations in accordance with DOT Order 1630.2B, Personnel Security Management.

c. The contractor shall include the above requirements in any subcontract awarded involving access to Government facilities, sensitive information, and/or resources.

d. Sensitive Information is proprietary data or other information that, if subject to unauthorized access, modification, loss or misuse could adversely affect national interest, conduct of Federal programs, or privacy of individuals specified in the Privacy Act, but has not been specifically authorized to be kept secret in the interest of national defense or foreign policy under an Executive Order or Act of Congress."

##### 2. Information Technology (IT) Services.

a. The contractor shall be responsible for IT security for all systems operated by or connected to a DOT network, regardless of location. This includes any IT resources or services in which the contractor has physical or electronic access to DOT's sensitive information that directly supports the mission of DOT (e.g., hosting DOT e-Government sites or other IT operations). If necessary, the Government shall have access to contractor and any subcontractor facilities, systems/networks operated on behalf of DOT, documentation, databases and personnel to carry out a program of IT inspection (to include vulnerability scanning), investigation and audit to safeguard against threats and hazards to DOT data or IT systems.

b. Within 30 days of contract award, the contractor shall develop and provide to the Government for approval, an IT Security Plan which describes the processes and procedures the contractor will follow in performance of this contract to ensure the appropriate security of IT resources developed, processed, or used under this contract. This Plan shall be written and implemented in accordance with applicable Federal laws including: The Computer Security Act of 1987 (40 U.S.C. 1441 et seq.), the Clinger-Cohen Act of 1996, and the Government Information Security Reform Act (GISRA) of 2000 and meet Government IT security requirements including: OMB Circular A- 130, Management of Federal Information Resources, Appendix 111, Security of Federal Automated Information Resources; National Institute of Standards and Technology (NIST) Guidelines; Departmental Information Resource Management Manual (DIRMM) and associated guidelines; and DOT Order 1 630.2B, Personnel Security Management.

c. The contractor shall screen their personnel requiring privileged access or limited privileged access to systems operated by the contractor for DOT or interconnected to a DOT network in accordance with DOT Order 1 630.2B, Personnel Security Management and ensure contractor employees are trained annually in accordance with OMB Circular A- 130, GISRA, and NIST requirements with a specific emphasis on rules of behavior.

d. The contractor shall immediately notify the contracting officer when an employee terminates employment that has access to DOT information systems or data.

e. The contractor shall include the above requirements in any subcontract awarded for IT services.

f. IT means any equipment or interconnected system or subsystem of equipment used in the automatic acquisition, storage, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information and as further defined in OMB Circular A- 130 and the Federal Acquisition Regulation Part 2.

#### **H.10 CONTRACTOR RESPONSIBILITY (DEC 1998)**

The Contractor shall without additional expense to the Government, be responsible for all damage to persons or property that occur as a result of its fault or negligence in connection with the prosecution of the work, and shall be

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responsible for the proper care and protection of work performed. Breakage or loss of office equipment or other property including that of a Government employee, which may occur in or about the building as a result of a fault or negligence in the Contractor's operations or fault or negligence in the actions of the Contractor's agent, subcontractors or its employees shall be made good by the Contractor at its expense.

#### **H.11 HANDLING OF DATA (MAY 1999)**

A. The Contractor and any of its subcontractors in performance of this contract may have need for access to and use of various types of data and information in the possession of the Government which the Government obtained under conditions that restrict the Government's right to use and disclose the data and information, or which may be of such a nature that its dissemination or use other than in the performance of this contract would be adverse to the interests of the Government or other parties. Therefore, the Contractor and its subcontractors agree to abide by any restrictive use conditions on such data and not to:

(1) Knowingly disclose such data and information to others without written authorization from the Contracting Officer, unless the Government has made the data and information available to the public; nor

(2) Use for any purpose other than the performance of this contract that data which bears a restrictive marking or legend.

B. In the event the work required to be performed under this contract requires access to proprietary data of other companies, the Contractor shall obtain agreements from such other companies for such use unless such data is provided or made available to the Contractor by the Government. Two copies of such company-to-company agreements shall be furnished promptly to the Contracting Officer for information only. These agreements shall prescribe the scope of authorized use or disclosure, and other terms and conditions to be agreed upon between the parties. It is agreed by the Contractor that any such data, whether obtained by the Contractor pursuant to the aforesaid agreement or from the Government, shall be protected from unauthorized use or disclosure to any individual, corporation, or organization so long as it remains proprietary.

C. Through formal training in company policy and procedures, the Contractor agrees to make employees aware of the absolute necessity to maintain the confidentiality of data and information, as required above, and further aware of the sanctions which may be imposed for divulging either the proprietary data of other companies or data that is obtained from the Government to anyone except as authorized. The Contractor shall obtain from each employee engaged in any effort connected with this contract an agreement, in writing, which shall in substance provide that such employee will not during his/her employment by the Contractor, or thereafter, disclose to others or use for his/her own benefit or the future benefit of any individual any trade secrets, confidential information, or proprietary/restricted data (to include Government "For Official Use Only") received in connection with the work under this contract. The Contractor shall furnish a sample form of this agreement to the Contracting Officer promptly after award.

D. The Contractor agrees to hold the Government harmless and indemnify the Government as to any cost/loss resulting from the unauthorized use or disclosure of third party data or software by the Contractor, its employees, subcontractors, or agents.

E. The Contractor agrees to include the substance of this provision in all subcontracts awarded under this contract. The Contracting Officer will consider case-by-case exceptions from this requirement for individual subcontracts in the event that

(1) The Contractor considers the application of the prohibitions of this provision to be inappropriate and unnecessary in the case of a particular subcontractor;

(2) The subcontractor provides a written statement affirming absolute unwillingness to perform absent some relief from the substance of this prohibition;

(3) Use of an alternate subcontract source would reasonably detract from the quality of effort; and

(4) The Contractor provides the Contracting Officer timely written advance notice of these and any other extenuating circumstances.

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F. Except as the Contracting Officer specifically authorizes in writing, upon completion of all work under this contract the Contractor shall return all such data and information obtained from the Government, including all copies, modifications, adaptations, or combinations thereof, to the Contracting Officer. Data obtained from another company shall be disposed of in accordance with the Contractor's agreement with that company, or, if the agreement makes no provision for disposition, shall be returned to that company. The Contractor shall further certify in writing to the Contracting Officer that all copies, modifications, adaptations or combinations of such data or information which cannot reasonably be returned to the Contracting Officer (or to a company) have been deleted from the Contractor's (and any subcontractor's) records and destroyed.

G. These restrictions do not limit the Contractor's (or subcontractor's) right to use and disclose any data and information obtained from another source without restriction.

H. As used herein, the term "data" has the meaning set forth in Federal Acquisition Regulations, clause 52.227-14, "Rights in Data - General," and includes, but is not limited to, computer software, as also defined in Clause 52.227-14.

#### **H.12 INSURANCE (FEB 2005)**

The contractor shall comply with Section I, FAR Clauses 52.228-5 "Insurance-Work on a Government Installation" and FAR 52.228-7, "Insurance-Liability to Third Persons." The contractor shall secure, pay the premiums for, and keep in force until the expiration of this contract, and any renewal thereof, adequate insurance as provided below, such insurance to specifically include liability assumed by the contractor under this contract. The contractor is responsible for providing insurance of the following types and minimum amounts:

a. Workman's Compensation and Employees Liability Insurance as required by applicable statute, but not less than \$100,000.

b. Comprehensive bodily injury liability insurance with limits of not less than \$500,000 for each accident.

c. Property damage liability with a limit of not less than \$100,000 for each accident.

d. Automotive bodily injury liability insurance with limits of not less than \$200,000 for each person and \$500,000 for each accident, and property damage liability insurance, with a limit of not less than \$40,000 for each accident.

Each policy of insurance shall contain an endorsement that any cancellation or material change in the coverage adversely affecting the Government's interest shall not be effective unless the insurer or the contractor gives written notice of cancellation or change to the CO at least 30 calendar days prior to the aforementioned actions. When the coverage is provided by self-insurance, the contractor shall not change or decrease the coverage without the CO's prior approval.

A certificate of each policy of insurance shall be furnished to the CO within ten (10) days after notice of award certifying, among other things, that the policy contains the aforesaid endorsement. The insurance companies providing the above insurance shall be satisfactory to the Government. Notices of policy changes shall be furnished to the CO.

#### **H.13 TRAVEL (MAR 2005)**

Travel directly related to the performance of work in accordance with Section C shall not be permitted unless authorized under a task order. All requests for travel must be approved by the job order initiator in writing in advance of travel taking place. The actual costs for lodging, meals, and incidentals will be considered reasonable and allowable

if they do not exceed the maximum per diem rates in effect at the time of travel as set forth in the Federal Travel Regulations. A written justification must be provided for higher amounts in special or unusual circumstances in accordance with the FAR Subpart 31.205-46. Compensation for time in excess of eight hours a day is allowable only to the extent such compensation conforms to established compensation practices throughout the contractor's organization on non Governmental work.

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## SECTION I - CONTRACT CLAUSES

### **I.1 FAR 52.252-2 CLAUSES INCORPORATED BY REFERENCE. (FEB 1998)**

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.dot.gov/ost/m60/tamtar>  
<http://farsite.hill.af.mil/vffr.htm>  
<http://www.arnet.gov/far>

52.202-1	Definitions.	JUL 2004
52.203-3	Gratuities.	APR 1984
52.203-5	Covenant Against Contingent Fees.	APR 1984
52.203-6	Restrictions on Subcontractor Sales to the Government	JUL 1995
52.203-7	Anti-Kickback Procedures.	JUL 1995
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity.	JAN 1997
52.203-10	Price or Fee Adjustment for Illegal or Improper Activity.	JAN 1997
52.203-12	Limitation on Payments to Influence Certain Federal Transactions.	JUN 2003
52.204-4	Printed or Copied Double-Sided on Recycled Paper.	AUG 2000
52.204-7	Central Contract Registration	OCT 2003
52.209-6	Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment.	JAN 2005
52.215-2	Audit and Records - Negotiation.	JUN 1999
52.215-8	Order of Precedence - Uniform Contract Format.	OCT 1997
52.215-10	Price Reduction for Defective Cost or Pricing Data.	OCT 1997
52.215-11	Price Reduction for Defective Cost or Pricing Data Modifications.	OCT 1997
52.215-12	Subcontractor Cost or Pricing Data.	OCT 1997
52.215-13	Subcontractor Cost or Pricing Data - Modifications.	OCT 1997
52.215-14	Integrity of Unit prices Alternate 1 ((OCT 1997)	OCT 1997
52.215-15	Pension Adjustments and Asset Revisions	OCT 2004
52.215-18	Reversion of Adjustment of Plans for Postretirement Benefits (PRB) other than Pensions	OCT 1997
52.215-17	Waiver of Facilities Capital Cost of Money.	OCT 1997
52.215-21	Requirements for Cost or Pricing Data or Information Other Than Cost or Pricing Data - Modifications.	OCT 1997
52.215.21	Requirements for Cost or Pricing Data or Information Other Than Cost or Pricing Data - Modifications. Alternate 1 (OCT 1997)	OCT 1997
52.216-7	Allowable Cost and Payment.	DEC 2002
52.216-8	Fixed Fee.	MAR 1997
52.216-18	Ordering	OCT 1995

For the purpose of this clause the blank (s) are completed as follows:

(a) Such orders may be issued from the date of Contract award, through five years

52.216-19 Order Limitations OCT 1995

For the purpose of this clause the blank (s) are completed as follows:

(a) in an amount of less than 2,500

- (b) (1) Any order for a single item in excess of \$5,000,000
- (b) (2) Any order for a combination of items in excess of \$5,000,000;
- (b) (3) A series of orders from the same ordering office within (Not Applicable) days
- (c) within (Not Applicable) days after issuance

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52-216-22	Indefinite Quantity For the purpose of this clause the blanks are completed as follows (d) contractor shall not be required to make deliveries under this contract one year from the expiration date of the contract	OCT 1995
52.217-8	Option to Extend Services For the purpose of this clause the blanks(s) are completed As follows: "30 calendar days before expiration of contract"	NOV 1999
52-219-1	Small Business Representations	MAY 2004
52.222-1	Notice to the Government of Labor Disputes	FEB 1997
52.222-2	Payment of Overtime Premiums	JUL 1990
For the purpose of this clause the blank (s) are completed as follows: (a) the use of overtime is contract if the premium does not exceed zero or the overtime premium is paid for work		
52.222-3	Convict Labor	JUN 2003
52.222-4	Contract Work Hours and Safety Standards Act - Overtime Compensation	JUL 2005
52.222.21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	APR 2002
52.222-35	Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and other Eligible Veterans	DEC 2001
52.222-36	Affirmative Action for Workers with Disabilities	JUN 1998
52-222-37	Employment Reports on Special Disabled Veterans Veterans of the Vietnam Era, and other Eligible Veterans	DEC 2001
52.223-5	Pollution Prevention and Right-to-Know Information	AUG 2003
52.223-6	Drug-Free Workplace	MAY 2001
52.223-14	Toxic Chemical Release Reporting	AUG 2003
52.224-1	Privacy Act Notification.	APR 1984
52.224-2	Privacy Act	APR 1984
52.225.1	Buy American Act-Supplies	JUN 2003
52.225-11	Buy American Act - Construction Materials Under Trade Agreements	JAN 2005
52.227-2	Notice and Assistance Regarding Patent and Copyright Infringement	APR 1996
52.227-3	Patent Indemnity	APR 1984
52.227-12	Patent Rights - Retention by the Contractor (Long Form)	JAN 1997
52.227-14	Rights in Data - General	JUN 1987
52.227-14	Rights in Data - General (JUN 1987) -- Alternate 1	JUNE 1987
52.227-14	Rights in Data - General (JUN 1987) -- Alternate V	JUN 1987
52-227-16	Additional Data Requirements	JUN 1987

52-227-19	Commercial Computer Software-Restricted Rights	JUN 1987
52-228-5	Insurance- Work on a Government Installation	JAN 1997
52.228-7	Insurance - Liability to Third Persons	MAR 1996
52.229-3	Federal, State, and Local Taxes	APR 2003
52.230-2	Cost Accounting Standards	APR 1998
52.230-3	Disclosure and Consistency of Cost Accounting Practices	APR 1998
52.230-6	Administration of Cost Accounting Standards	NOV 1999
52.230-9	Limitation on Withholding of Payments	APR 1984
52.232-17	Interest	JUN 1996

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52.232-18	Availability of Funds	APR 1984
52.232-20	Limitation of Cost "Task Order is to substituted for" Schedule where Appearing	APR 1984
52.232-22	Limitation of Funds "Task Order" is to substituted for "Schedule where appearing.	APR 1984
52.232-23	Assignment of Claims	JAN 1986
52.232-25	Prompt Payment	OCT 2003
52.232.33	Payment by Electronic Funds Transfer Central Contractor Registration	OCT 2003
52.233-1	Disputes Alternate 1	JUL 2002 DEC 1991
52.233-3	Protest after Award  Alternate 1	AUG 1996  JUN 1985
52.237-2	Protection of Government Buildings, Equipment, Vegetation	APR 1984
52.239-1	Privacy of Security Safeguards	AUG 1996
52.242-1	Notice of Intent to Disallow Costs	APR 1984
52.242-3	Penalties for Unallowable Costs	MAY 2001
52.242-4	Certification of Final Indirect Costs	JAN 1997
52.242-13	Bankruptcy	JUL 1995
52.243-2	Changes - Cost-Reimbursement	AUG 1987
52.243 -2	Changes - Cost-Reimbursement -- Alternate I	APR 1984
52.244-2	Subcontracts	AUG 1998
52.244-2	Subcontracts Alternate II (AUG 1998)	AUG 1998
52.245-5	Government Property (Cost Reimbursement Time-And- Material, or Labor-Hour Contract)	MAY 2004
52.245-19	Government Property Furnished "As Is"	APR 1984
52.246-25	Limitation of Liability--Services	FEB 1997
52.249-6	Termination (Cost-Reimbursement)	MAY 2004
52.249-14	Excusable Delays	APR 1984
52.251-1	Government Supply Sources	APR 1984
52.253-1	Computer Generated Forms	JAN 1991

## II. TRANSPORTATION ACQUISITION REGULATION (48CFR CHAPTER 12) CLAUSES

NUMBER	TITLE	DATE
1252.223-71	Accident and Fire Reporting	OCT 1994
1252.237-70	Qualifications of Employees	OCT 1994
125-245-70	Government Property Records	OCT 1994

### I.2 FAR 52.204-1 APPROVAL OF CONTRACT. (DEC 1989)

This contract is subject to the written approval of Chief, Acquisition Management Division, and shall not be binding until so approved.

### I.3 FAR 52.215-19 NOTIFICATION OF OWNERSHIP CHANGES (OCT 1997)

(a) The Contractor shall make the following notifications in writing:

(1) When the Contractor becomes aware that a change in its ownership has occurred, or is certain to occur, that could result in changes in the valuation of its capitalized assets in the accounting records, the Contractor shall notify the Administrative Contracting Officer (ACO) within 30 days.

(2) The Contractor shall also notify the ACO within 30 days whenever changes to asset valuations or any other cost changes have occurred or are certain to occur as a result of a change in ownership.

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(b) The Contractor shall -

(1) Maintain current, accurate, and complete inventory records of assets and their costs;

(2) Provide the ACO or designated representative ready access to the records upon request;

(3) Ensure that all individual and grouped assets, their capitalized values, accumulated depreciation or amortization, and remaining useful lives are identified accurately before and after each of the Contractor's ownership changes; and

(4) Retain and continue to maintain depreciation and amortization schedules based on the asset records maintained before each Contractor ownership change.

(c) The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(k).

### I.4 FAR 52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS (DEC 2004)

(a) Definitions. As used in this clause -

"Commercial item" has the meaning contained in the Federal Acquisition Regulation 2.101, Definitions.

"Subcontract" includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

(b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or non-developmental items as components of items to be supplied under this contract.

(c)(l) The Contractor shall insert the following clauses in subcontracts for commercial items:

(i) 52.2 19-8, Utilization of Small Business Concerns (May 2004)(15 U.S.C. 637 (d) (2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$500,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.2 19-8 in lower tier subcontracts that offer subcontracting opportunities.

(ii) 52.222-26, Equal Opportunity (Apr 2002) (E.O. 11246);

(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001) (38 U.S.C. 42 12(a));

(iv) 52.222-36, Affirmative Action for Workers with Disabilities (Jun 1998) (29 U.S.C. 793);

(v) 52.222-39, Notification of Employee Rights Concerning Payment of Union Dues or Fees (Dec 2004) (E.O. 13201). Flow down as required in accordance with paragraph (g) of FAR clause 52.222-39.

(vi) 52.247-64, Preference for Privately Owned U.S-Flag Commercial Vessels (Apr 2003) (46 U.S.C. 1241 and 10 U.S.C. 263 1) (flow down required in accordance with paragraph (d) of FAR clause 52.247-64).

(2) While not required, the Contractor may flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

### I.5 TAR 1252.242-72 DISSEMINATION OF CONTRACT INFORMATION (OCT 1994)

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The Contractor shall not publish, permit to be published, or distribute for public consumption, any information, oral or written, concerning the results or conclusions made pursuant to the performance of this contract, without the prior written consent of the Contracting Officer. Two copies of any material proposed to be published or distributed shall be submitted to the Contracting Officer.

### I.6 TAR 1252.223-73 SEAT BELT USE POLICIES AND PROGRAMS (MAY 2005)

In accordance with Executive Order 13043, Increasing Seat Belt Use in the United States, dated April 16, 1997, the contractor is encouraged to adopt and enforce on-the-job seat belt use policies and programs for its employees when operating company-owned, rented, or personally-owned vehicles. The National Highway Traffic Safety Administration (NHTSA) is responsible for providing leadership and guidance in support of this Presidential initiative. For information on how to implement such a program or for statistics on the potential benefits and cost-savings to your company or organization, please visit the Buckle Up America section of NHTSA's website at [www.nhtsa.dot.gov](http://www.nhtsa.dot.gov). Additional resources are available from the Network of Employers for Traffic Safety (NETS), a public-private partnership headquartered in the Washington, D.C. metropolitan area, and dedicated to improving the traffic safety practices of employers and employees. NETS is prepared to help with technical assistance, a simple, user friendly program kit, and an award for achieving the President's goal of 90 percent seat belt use. NETS can be contacted at 1-888-221-0045 or visit its website at [www.trafficsafety.org](http://www.trafficsafety.org).

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#### SECTION J - LIST OF ATTACHMENTS

No Attachments

**U.S. DEPARTMENT  
OF TRANSPORTATION**

**MEMORANDUM**

**Research and Innovative  
Technology Administration**

Date: September 15, 2005

Subject: **ACTION:**  
Appointment as Contracting  
Officer's Technical Representative on  
Contract No. DTRT57-05-D-30015  
Flight Safety Technologies, Inc.

From: Carol Ferrante  
Contracting Officer

To: Kevin Clark DTS53

You are hereby appointed as the Contracting Officer's Technical Representative (COTR) under contract DTRT57-05-D-30115. As the COTR, your primary duty is to monitor the contractor's performance to ensure that the Contractor meets all of the technical requirements under the task order, by the delivery date or within the period of performance as stated in the Contract, and at the estimated cost stated in the Contract. In the performance of the duties delegated to you in this letter, you are cautioned that you could be held personally liable for actions taken or directions given by you to the contractor that are beyond the authorities given to you in this letter. The duties or authorities in this letter are not delegable; however, you must advise the Contracting Officer, Carol Ferrante at (617) 494-2421, immediately when you are unable to perform these duties.

Your duties and limitations, as applicable to the contract you will be monitoring are as follows:

#### **Monitoring Performance.**

Ensure that the contractor complies with the requirements of the statement of work, specifications, or performance work statement, and when requested by the contractor, provide technical direction to the contractor's technical manager. This technical assistance must be within scope of the contract (e.g., interpreting specifications, statement work, performance work statement, etc.). When a difference of opinion between you and the contractor occurs, notify the contracting officer or the contract administrator/specialist immediately for resolution.

Ensure that the personnel being used by the contractor are of the same caliber that was originally proposed by the contractor to the Government. The experienced personnel contracted for and/or approved by the Government should not be diluted by the use of personnel with less experience. However, you may not permit changes, substitutions, or addition to personnel. Any decrease in or lack of performance will be brought to the attention of the contracting officer or contract administrator/specialist.

You will also be required to complete the "Performance Evaluation Sheet: within 30 days after the contractor has met all terms and conditions of the contract.

#### **MONITORING COSTS.**

Review and evaluate the contractor's progress in relation to the expenditures. When the costs expended by the contractor are not commensurate with the contractor's progress, bring this to the attention of the contracting officer or contract administrator/specialist for immediate action.



Review the contractor's invoices/vouchers for reasonableness and applicability to the contract and recommend to the contracting officer either approval, conditional approval, or disapproval for payment. The review must be completed within five days after receipt of the invoice or voucher. If you cannot meet the required review time, advise the contracting officer or contract administrator/specialist so that action can be taken to ensure Government compliance with the Prompt Payment Act, thereby avoiding the payment of interest penalties to the contractor.

### **CHANGES TO THE CONTRACT.**

You cannot authorize the contractor to stop work, and you are not authorized to delete, change, waive, or negotiate any of the technical requirements or other terms and conditions of the contract. Should a change (monetary or otherwise) to the contract become necessary, it must be made by a contract modification issued by the contracting officer. When in doubt, contact the contracting officer or contract administrator/specialist.

Any contract change requested by the contractor must be put in writing by the contractor to the contracting officer for action; however, you should immediately advise the contracting officer or contract administrator/specialist of the proposed change since it may affect the contract price, cost, or delivery/performance schedule. When the proposed change is received by the contracting officer, you will be required to provide the contracting officer with a written analysis and rationale for the change and to evaluate any costs associated with the change.

You must recognize and report to the contracting officer any Government required changes to the contract (e.g., items or work no longer required, changes in the specifications, etc.).

### **VISITS AND MEETINGS WITH THE CONTRACTOR.**

Make arrangements with the contractor for periodic visits to the contractor's plant to: (1) evaluate the contractor's performance; (2) evaluate changes in the technical performance affecting personnel, the schedule, deliverables, and price or costs; (3) inspect and monitor the use of Government property, if applicable; and (4) ensure that contractor employees being charged to the contract are actually performing the work under the contract. A trip report fully documenting all activities during the visit must be written and a copy provided to the contracting officer within three working days after the visit.

Document the file to record each meeting and telephone conversation with the contractor. A daily logbook is recommended which should reflect the date, time, name, and title of individual(s) involved, the subject matter, and the details of the meeting or conversation.

### **INSPECTION OF CONTRACT ITEMS.**

When notified by the contractor or the contracting officer, perform, in accordance with the terms of the contract, inspection, acceptance or rejection of the supplies, services, or construction. Immediately notify the contracting officer of all rejections and the reason for the action.

Review progress reports from the contractor and advise the contracting officer of any contractor problem or action required to be taken by the Government.

### **STANDARDS OF CONDUCT AND CONFLICT OF INTEREST.**

FAR 48 CFR Part 3 and (TAR) 48 CFR Part 1203/Transportation Acquisition Manual Chapter 1203, Improper Business Practices and Personal Conflict of Interest, provides guidance to avoid improper business practices and personal conflicts of interest and to deal with their apparent or actual occurrences. Please read these documents very carefully and contact the contracting officer should you require further information or clarification on this subject matter.

### **CONTRACT FILE CONTENT AND MAINTENANCE.**

Establish and maintain an organized contract administration file to record all contractor and Government actions pertaining to the contract. The COTR's file is of particular importance since the documentation of your interaction with the contractor may be used in the event of litigation. In addition, an organized file facilitates an easy transition from one COTR to another if reassignment becomes necessary. The file(s) should be organized as follows:

- (1) File 1 - The contract instrument (i.e., contract modifications, task orders, delivery orders, and the contractor's proposals applicable to these documents.
- (2) File 2 - The COTR's delegation letter, and all correspondence between the contractor and the contracting officer, filed in chronological order.
- (3) File 3 - A copy of the contractor's invoices/vouchers and any correspondence pertaining to the payments.
- (4) File 4 - The COTR's trip reports and written memoranda to the file on telephone conversations or other meeting with the

contractor.

(5) File 5 - A copy of the contractor's progress reports and other contract deliverables, and all correspondence pertaining to these documents.

The size of the contract may not warrant a separate folder for each file. If less than five folders are used, the sections must be tabbed to segregate each file.

Please acknowledge receipt and acceptance of this appointment by signing and returning the attached sheet to the contracting officer or contract administrator/specialist. Your appointment as the COTR under the above numbered contract is terminated upon receipt of a written notice of termination from the appointing contracting officer, the contracting officer's successor, or a higher level of authority. Please direct any questions you may have on this delegation to the contracting officer or contract administrator/specialist.

### **EVALUATING PERFORMANCE.**

Within 30 days after the contractor has met all terms and conditions of the contract, you must evaluate the contractor's performance using the attached evaluation form.

*U.S. Department  
of Transportation*  
**Research and  
Innovative Technology  
Administration**

John A. Volpe  
National Transportation  
Systems Center

Kendall Square  
Cambridge, Massachusetts 02142-1093

September 15, 2005

Flight Safety Technologies, Inc

28 J Cottrell Street

Mystic CT 06355

Attention: Mr. Sam Kovnat

Subject: Contract No. DTRT57-O5-D-30115

Dear Mr. Kovnat:

### **CONTRACT AWARD AND ASSOCIATED NOTIFICATION(S)**

Enclosed herewith is a fully executed copy of the subject contract. This letter also serves as:

- (1) You will not proceed on any task until a Notice to Proceed is issued through subsequent task orders.
- (2) Your notice that the contract approval required by FAR Clause 52.204-1 contained in Section I of the subject contract has been obtained.
- (3) Your consent to subcontract with those subcontractors identified in FAR Clause 52.244-2 contained in Section I of the subject contract.  
Reminder: This consent does not constitute a determination of the acceptability of any subcontract terms or price; of the allowability of any cost under this contract; or to relieve the Contractor of any responsibility for performing this contract.

### **ACQUISITION MANAGEMENT DIVISION REPRESENTATIVES**

The responsibility for this contract has been assigned to Michael L Raymond as Administrative Contracting Officer, DTS-852, telephone no. (617) 494-2313, and the undersigned Contracting Officer, DTS-852, telephone no. (617) 494-2593. All correspondence relating to the contract should be addressed to Michael Raymond, who is prepared to help you in every way and you are urged to take full advantage of this assistance. Kevin Clark is appointed as the Contracting Officer's Technical Representative. A copy of the appointment is attached to this award notification this appointment is effective until the task order is completed or a written notice of termination is received from the Contracting Officer.

### **ELECTRONIC PAYMENT INFORMATION**

FAR 52.232-33 "Payment by Electronic Funds Transfer - Central Contractor Registration" contained in Section I of the subject contract requires that, among other things, you register at the Central Contractor Registration (CCR) and provide information for Electronic Funds Transfer (EFT). This clause stipulates that the...

"Government need not make payment to the Contractor under this contract until correct EFT information is entered into the CCR database; and any invoice or contract financing request shall be deemed not to be a proper invoice for the purpose of prompt payment under this contract." You may register with or obtain additional information about CCR at their web site

"<http://www.ccr2000.com>". Mr. Donald Rudman, Chief of the Administrative Services Branch, has been appointed as my property administrator and plant clearance officer under the subject contract. A copy of this appointment memorandum is enclosed. Mr. Rudman's telephone number is (617) 494-2635. The Volpe Center Payment Office will eventually have an electronic link to CCR and it will obtain changed EFT information electronically. However, until then, you should notify the contract designated Payment Office (Accounting Branch, DTS-823) if you change your EFT information in CCR. You will be notified by the Volpe Center when the electronic link between the Payment Office and CCR is established.

### **"EQUAL OPPORTUNITY" OBLIGATION**

In connection with FAR Clause 52.222-26 contained in Section I of the subject contract, your attention is invited to the contractual obligation that, in the performance of work under the contract, you shall not discriminate against any employee or applicant for employment because of race, religion, sex, color, or national origin. Accordingly, you are encouraged to comply with both the spirit and the letter of the clause. Forwarded herewith for posting is the "Equal Opportunity" notice. If subcontract(s) are issued containing

the "Equal Opportunity" clause, you must also furnish this notice to the subcontractor(s). Additional copies of the notice are available upon request or can be downloaded from the Department of Labor's website at <http://www.dol.gov/dol/esalpublic/regs/compliance/posters/eo.htm>.

### **OFFICIAL TRAVEL OF GOVERNMENT CONTRACTORS.**

Various discount travel rates (excluding use of the GSA's contract city pair fares) are available to eligible Government contractors only at the option of the vendor under contract and/or agreement with the General Services Administration or Department of Defense. Information on which hotels and car rental companies offer Government discount rates to Government contractors is provided to and published by several commercial publications including the official Airline Guides Official Traveler (800) DIAL-OAG, Innovata (800) 846-6742, and National Telecommunications (201) 928-1900. In addition, GSA contract Travel Management Centers (TMCS) and DOD's Commercial Travel Offices (CTOs) have this information. Vendors providing the

discounted services may require the Government authorized contractor to furnish a letter of identification signed by the authorizing agency's contracting officer. Contact the Contracting Officer should you require an identification letter for an employee traveling on official government business under this contract.

### **REQUEST FOR CONTRACTOR POINT OF CONTACT**

To minimize potential delays and establish a central point of contact within your organization, it is requested that you furnish the name and telephone number of the individual we should contact in matters pertaining to the administration of this contract.

Please feel free to bring to my attention any deficiencies or delays encountered in the administration of this contract. Experience has shown that timely notification facilitates resolution of contractual problems.

Sincerely,

Carol Ferrante  
Contracting Officer

#### Enclosures:

- 1 Contract No. DTRT57-05-D-3 0115
- 2.COTR Appointment (without attachments)

cc:

K. Clark

bcc:

DTS-852/Official File

DTS-852Reading File

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in Registration Statement No. 333-116688 of Flight Safety Technologies, Inc. on Form S-3 of our report dated July 18, 2006 relating to our audit of the financial statements which appear in this Annual Report on Form 10-KSB of Flight Safety Technologies, Inc. for the year ended May 31, 2006.

/s/ Wolf & Company, P.C.

Boston, Massachusetts  
August 28, 2006


**Certification of Chief Executive Officer  
Required by Rule 13a-14(a)/15d-14(a)**

I, Samuel A. Kovnat, certify that:

1. I have reviewed this Annual Report on Form 10-KSB of Flight Safety Technologies, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the small business issuer as of, and for, the periods presented in this report;
4. The small business issuer's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the small business issuer and have:
  - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the small business issuer, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) evaluated the effectiveness of the small business issuer's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - c) disclosed in this report any change in the small business issuer's internal control over financial reporting that occurred during the small business issuer's most recent fiscal quarter (the small business issuer's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the small business issuer's internal control over financial reporting; and
5. The small business issuer's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the small business issuer's auditors and the audit committee of the small business issuer's board of directors (or persons performing the equivalent functions):
  - a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the small business issuer's ability to record, process, summarize and report financial information; and
  - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the small business issuer's internal control over financial reporting.

September 6, 2006

By: /s/ Samuel A. Kovnat

  
Samuel A. Kovnat  
Its Chief Executive Officer

**Certification of Chief Financial Officer  
Required by Rule 13a-14(a)/15d-14(a)**

I, David D. Cryer, certify that:

1. I have reviewed this Annual Report on Form 10-KSB of Flight Safety Technologies, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the small business issuer as of, and for, the periods presented in this report;
4. The small business issuer's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the small business issuer and have:
  - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the small business issuer, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) evaluated the effectiveness of the small business issuer's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - c) disclosed in this report any change in the small business issuer's internal control over financial reporting that occurred during the small business issuer's most recent fiscal quarter (the small business issuer's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the small business issuer's internal control over financial reporting; and
5. The small business issuer's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the small business issuer's auditors and the audit committee of the small business issuer's board of directors (or persons performing the equivalent functions):
  - a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the small business issuer's ability to record, process, summarize and report financial information;; and
  - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the small business issuer's internal control over financial reporting.

September 6, 2006

By: /s/ David D. Cryer



David D. Cryer  
Its Chief Financial Officer

**CERTIFICATION PURSUANT TO  
SECTION 1350, CHAPTER 63 OF TITLE 18, UNITED STATES CODE,  
AS ADOPTED PURSUANT TO  
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

We, Samuel A. Kovnat, Chief Executive Officer, and David D. Cryer, Chief Financial Officer, of Flight Safety Technologies, Inc. (the "Company"), certify, pursuant to Section 1350, Chapter 63 of Title 18, United States Code, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Annual Report on Form 10-KSB of the Company for the fiscal year ended May 31, 2006 (the "Report") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

September 6, 2006

By: /s/ Samuel A. Kovnat



Samuel A. Kovnat  
Its Chief Executive Officer

September 6, 2006

By: /s/ David D. Cryer



David D. Cryer  
Its Chief Financial Officer