

CITY OF LOS ANGELES

CALIFORNIA

TONY M. ROYSTER
GENERAL MANAGER
AND
CITY PURCHASING AGENT



ERIC GARCETTI
MAYOR

DEPARTMENT OF
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August 27, 2020

Honorable City Council
City of Los Angeles
c/o City Clerk
Room 305, City Hall
Los Angeles, CA, 90012

Attention: Armando Bencomo, Legislative Assistant

**REQUEST AUTHORITY TO NEGOTIATE AND EXECUTE
A LICENSE WITH THE AIR FORCE TECHNICAL APPLICATIONS CENTER
FOR MONITORING AND SENSOR EQUIPMENT AT THE SOUTHEAST POLICE STATION**

The Department of General Services (GSD) on behalf of the Los Angeles Police Department (LAPD) requests authority to negotiate and execute a license with Air Force Technical Applications Center (AFTAC) located at 145 W. 108th Street, Los Angeles, CA 90061 for the installation, operation, and maintenance of monitoring and sensor equipment.

BACKGROUND

The Air Force Technical Applications Center has been identified as the responsible organization for installation and operation of a ground-based sensor suite (USPDS) to support National Technical Nuclear Forensics. USPDS are installed in designated urban areas of the United States. Through the deployment of these critical prompt diagnostic sensor systems, the United States will not only have important information to support emergency response to natural and man-made disasters, but also to ensure a robust deterrent to potential terrorists or those that would support terrorism.

USPDS are deployed in designated urban areas throughout the United States. AFTAC requested assistance from the LAPD to identify a facility to place USPDS to serve the Los Angeles area. The USPDS are passive and respond only to events such as seismic, light, sound, pressure waves, electromagnetic energy, and radiation. City Departments that may be impacted by the equipment include the GSD Building Maintenance Division and ITA. They have both confirmed that the equipment will not interfere with existing operations. Council District 8 has also approved the project. LAPD Facilities Management requested GSD to negotiate and execute a license agreement with AFTAC upon receipt of all approvals.

TERMS AND CONDITIONS

The license is for seven years with holdover on a month to month basis. It will be at no cost and have no impact to the General Fund. The licensee will be responsible for all improvements, repair and maintenance. The cost of electricity consumption is less than the administrative cost

of billing, so LAPD has agreed not to charge for it. A complete set of terms and conditions are outlined on the attached term sheet.

AFTAC will comply with the requirements of all applicable governmental and quasi-governmental laws, rules and regulations, and shall obtain (and keep in full force and effect) all required approvals and licenses per the City.

MARKET ANALYSIS

The license with AFTAC will be at no cost in the interest of national security. It has been confirmed that 100% of these licenses with other organizations have been implemented at no cost to the Federal government. The value of this license for a microcell (less than 300 square feet) is estimated to be \$46,368 annually based on the California Department of General Services Telecommunications Lease Rates for State Facilities/Properties.

FISCAL IMPACT

There is no impact to the General Fund. AFTAC at its sole cost and expense will keep the equipment in good order, repair and condition and to promptly and adequately repair any damage to the premises or to the property of City or any other party located within the Premises arising out of or resulting from the acts or omissions or the willful misconduct of AFTAC, or the installation, operation, or removal of the equipment.

RECOMMENDATION

That the Los Angeles City Council, subject to the approval of the Mayor, authorize GSD to negotiate and execute this license with the Air Force Technical Applications Center at 145 W. 108th Street for installation, maintenance, and operation of monitoring and sensor equipment under the terms and conditions substantially outlined in this report.



Tony M. Royster
General Manager

Attachments
Term Sheet
Air Force Roof Sensor Information

LEASING TERM SHEET

MFC DATE	08/27/2020
LANDLORD	City of Los Angeles
ADDRESS	111 E. 1st Street, Room 201, Los Angeles, CA 90012
TENANT	Air Force Technical Applications Center
ADDRESS	1020 S. Patrick Dr, Patrick Air Force Base, FL 32925-3002
LOCATION	145 W. 108th Street, Los Angeles, CA 90061 (Southeast Police Station)
AGREEMENT TYPE	Receivable License
USE	Install, own, operate, maintain, replace and remove Equipment
SQUARE FEET	Approximately 250 Square Feet
TERM	Seven years
RENT START DATE	Date attested
LEASE START DATE	Date attested, Effective Date subject to final LADBS sign off
OPTION TERM	N/A
HOLDOVER	Month-to-month
SUBLET/ ASSIGNMENT	No Right to Sublease/Assign
TERMINATION	For any reason, upon 120 day written notice by the City
RENTAL RATE	No cost - No impact to the General Fund
ESCALATION	N/A
RENTAL ABATEMENT	N/A
ADDITIONAL RENT	N/A
PROPERTY TAX	N/A
OPEX	AFTAC responsible
CAM	

OTHER	
SECURITY DEPOSIT	N/A
MAINTENANCE/ REPAIR	Tenant
MAINTENANCE/ REPAIR DETAILS	AFTAC will repair and maintain equipment. AFTAC will reimburse the City for performance of any repairs and maintenance by the City.
TENANT IMPROVEMENTS	(1) Mast with GPS Sensor, Weather sensor, etc. (1) Optical Sensor (1) RF Sensor (1) Equipment rack (1) Seismic sensor. Associated cabling and conduit
PARKING	Right to occasionally park for installation, operation, maintenance, and repairs
UTILITIES	Electricity provided by the City
CUSTODIAL	N/A
SECURITY	AFTAC will notify City prior to accessing equipment
PROP 13 PROTECTION	City is Exempt
INSURANCE (City)	Tenant shall indemnify and hold harmless the City
INSURANCE (Landlord)	Tenant shall indemnify and hold harmless the City
OTHER:	

USPDS FACT SHEET



Deployment of the United States Prompt Diagnostics System (USPDS)

The Air Force Technical Applications Center (AFTAC) has been identified as the responsible organization for installation and operation of a ground based sensor suite (USPDS) to support National Technical Nuclear Forensics (NTNF). The NTNF website can be found at: <http://www.dhs.gov/national-technical-nuclear-forensics-center>.

- **WHAT:** USPDS is a ground-based sensor suite that can provide characterization information, rapidly, following a catastrophic event or disaster. Data from such a ground-based sensor system, termed prompt diagnostics, are relevant to the characterization of both natural and man-made disasters. Prompt diagnostics can be used to support crisis response, consequence management, or law enforcement activities related to a disaster. USPDS is a prompt detection and diagnostics system designed to characterize a limited nuclear event in an urban environment and provide data to support the U.S. Government's attribution of such an event.
 - A prompt diagnostics system can measure weapon outputs at the time of detonation. Examples of possible outputs include seismic, light, sound, pressure waves, electromagnetic energy, and radiation.
 - It is important to note that these sensors are passive and respond only to events with the characteristics of the disasters described above; no information on any person will be recorded by these sensors at any time. Through the deployment of these critical prompt diagnostics sensor systems, the U.S. will not only have important information to support emergency response to natural and man-made disasters, but also to ensure a robust deterrent to potential terrorists or those that would support terrorism.
- **WHERE:** Sensors will be installed in designated urban areas throughout the United States. Locations were chosen in consultation with the Department of Homeland Security, law enforcement agencies, and the United States nuclear and technical community. Information from the sensors will flow real-time to a data fusion center at the Air Force Technical Applications Center (AFTAC), Patrick Air Force Base, FL.
- **WHY:** USPDS contributes to the United States Government's National Technical Nuclear Forensics (NTNF) effort. The information produced can be important to determining the design characteristics of a detonated nuclear weapon, which in turn informs to the process of including or excluding potential perpetrators.

If you have any questions or require additional information, please contact:

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Air Force Technical Applications Center (AFTAC)
(321) 494-9012
Laurie.Henry@us.af.mil

UNCLASSIFIED

NTNF Roles and Responsibilities

Department of Justice



Roles & Responsibilities

- Lead Federal Agency for investigating acts of terrorism and Atomic Energy Act violations
- Lead investigatory agency for domestic nuc/rad events
- Perform traditional forensics on contaminated conventional evidence
- Lead interagency Task Force to collect ground samples

Department of Homeland Security



Roles & Responsibilities

- National-level "program integrator" centralized planning, assessments and reviews, exercising, advocacy, and stewardship
- Pre-det nuc/rad materials forensics capability developer
 - Developing and improving materials signatures
 - Developing standards for materials analyses
 - Developing evaluation tools, methods, and knowledge capture
- Lead for nuclear forensics expertise development: scholarships, fellowships, internships, university/junior faculty awards from undergraduate to post-doc level



Homeland
Security

NTNF Roles and Responsibilities

Department of Defense



Roles & Responsibilities

- Develop an integrated, enduring, effective post-det nuclear forensics capability
- Provide an objective end-to-end post-det nuclear forensics concept of operations
- Conduct ground & air sample collections
- Coordinate, synchronize, manage post-det lab analysis, evaluation, and reporting
- Support post-det technical and operational capability improvements
- Support USG nuclear forensics activities when directed by Sec of Defense

Department of Energy



Roles & Responsibilities

- Pre-det device forensics capability developer
- Develop/sustain concept of operations
- Support interagency Task Force to collect and analyze ground samples
- R&D to advance capabilities
- Support prompt data capabilities
- Maintain infrastructure
- Conduct technical reach back



**Homeland
Security**

NTNF Roles and Responsibilities

Department of State



Roles & Responsibilities

- Lead for coordination of all international nuclear forensics activities
- Develop and implement strategies for engaging international partners
- Provide programmatic assistance to international partners
- Co-Chair of the Global Initiative to Combat Nuclear Terrorism

Office of the Director of National Intelligence



Roles & Responsibilities

- Helps drive nuclear forensics requirements
- Uses the results of nuclear forensics analysis to inform Intelligence Community (IC) assessments in support of nuclear attribution
- Serves as the technical interface between the nuclear forensics and intelligence communities through the Joint Atomic Energy Intelligence Committee
- Represents IC interests in interagency coordination forums through the National Counterterrorism Center



**Homeland
Security**

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Air Force Technical Applications Center (AFTAC)

United States Prompt Diagnostics System (USPDS)

A National Technical Nuclear Forensics (NTNF) program



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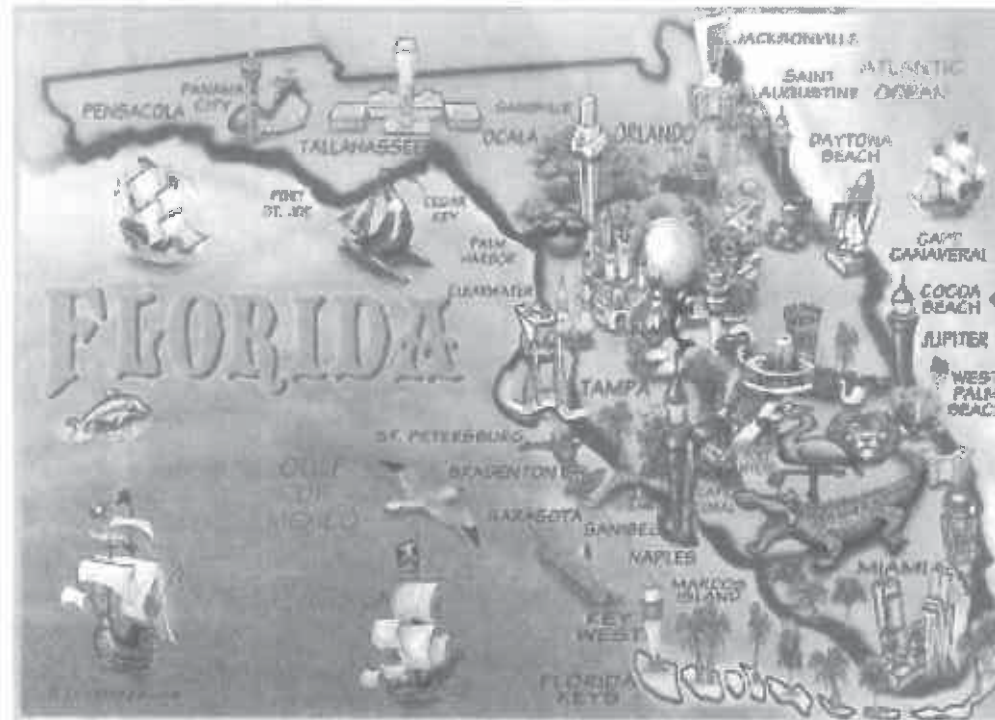


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AFTAC

Air Force Technical Applications Center (AFTAC), Patrick AFB in Cocoa Beach, FL



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AFTAC Mission



Original Tasking:

“The Army Air Force is hereby charged with the overall responsibility to detect atomic explosions anywhere in the world.”

***General Dwight D. Eisenhower
September, 1947***



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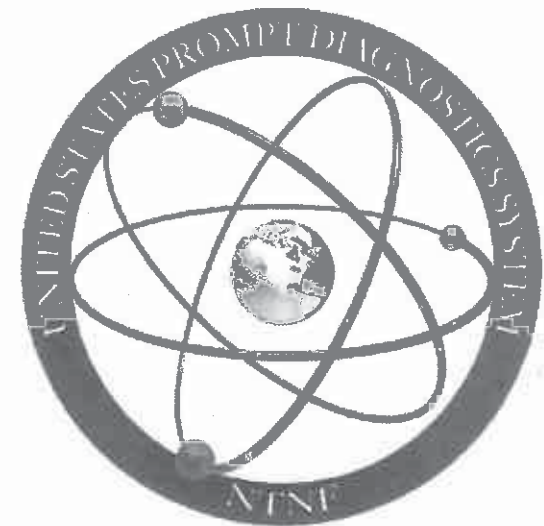
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United States Prompt Diagnostic System (USPDS)



Involves a number of sensors (nodes) in cities located throughout the United States to locally collect the following output from a nuclear event:

- ✿ **Seismic**
- ✿ **Gamma Rays**
- ✿ **Electromagnetic Pulse (EMP)**
- ✿ **Radio Frequency (RF)**
- ✿ **Teller Light (optical fluorescence)**
- ✿ **Overpressure (pressure)**
- ✿ **Infrasound (acoustic)**



- ✿ ***Data transmitted to AFTAC from sensors real-time***
- ✿ ***Sensors are passive/unmanned & operate 24/7***

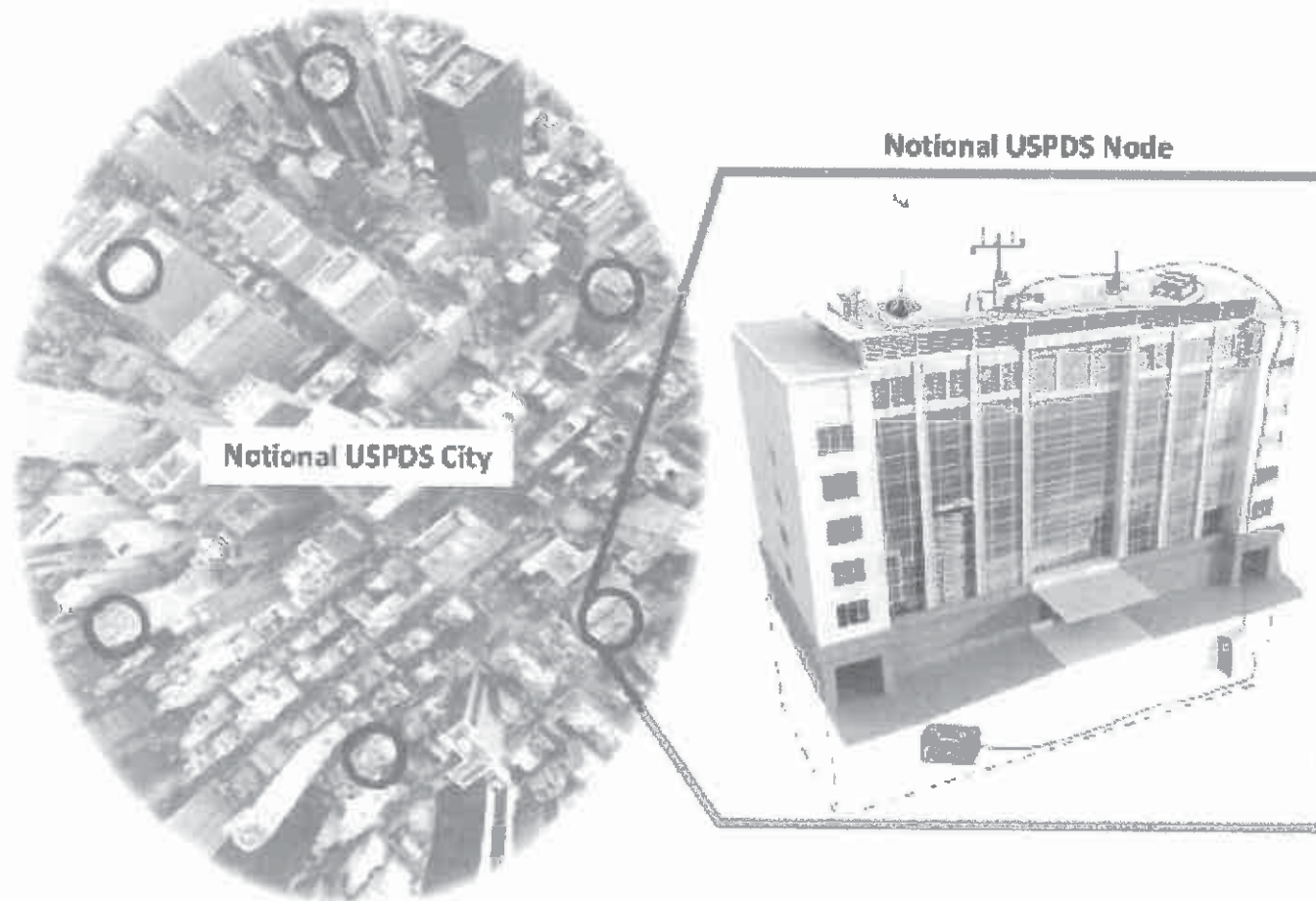
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USPDS Notional "City/Node"

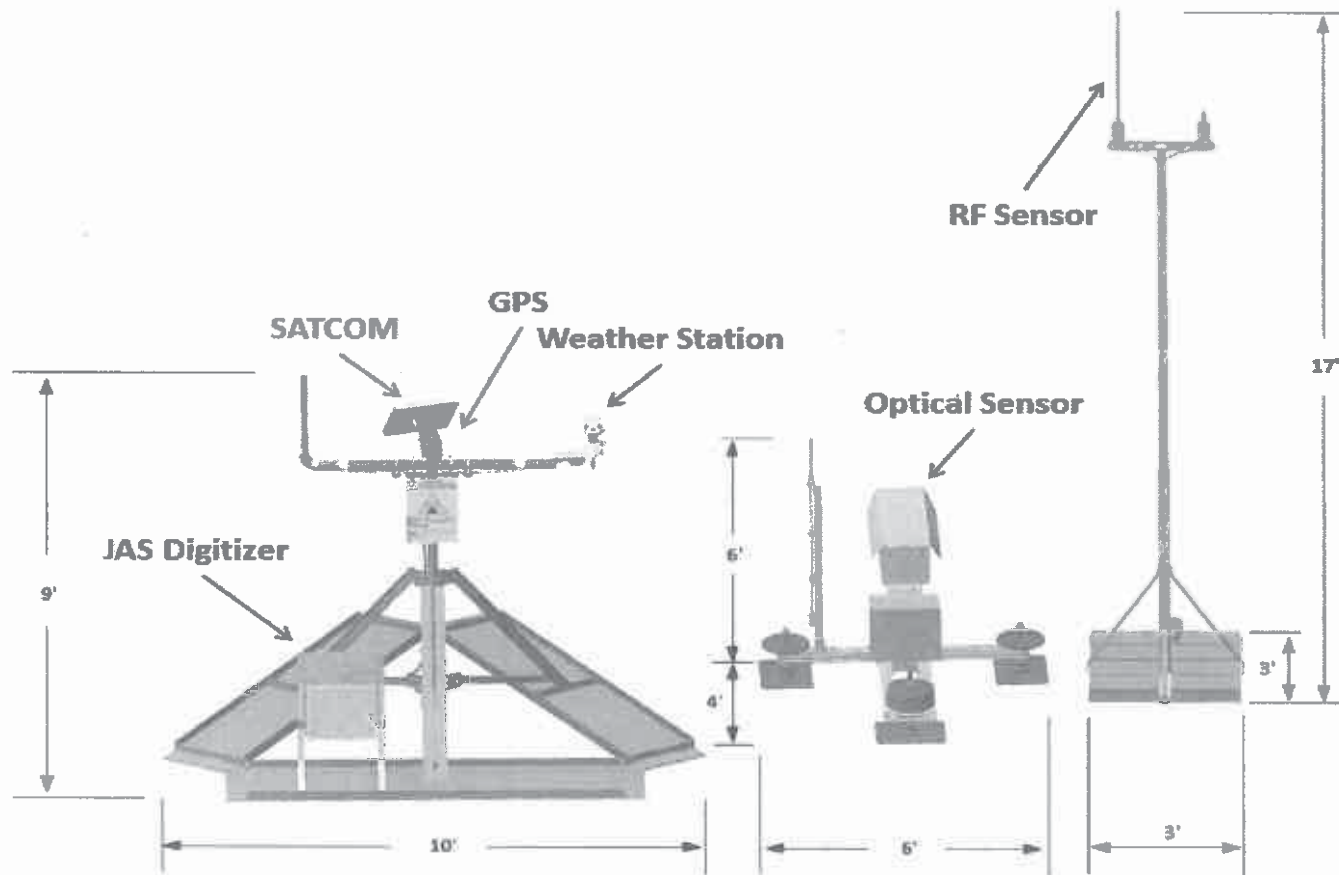


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Rooftop Sensors Diagrams & Dimensions



Mast w/ GPS, Weather, etc.:

- Base: 10' ½" X 10' ½"
- Height: 8' 6 ½"
- 500 lbs

Optical Sensor

- Base- 5.5' X 5.5'
- Height- 5' 10"
- 400 lbs

RF Sensor

- Base- 3' X 3'
- Height- 16'
- 400 lbs

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Ground Floor/Basement Sensors



Seismic Sensor

- Diameter: 6"
- Height: 3"



Processing and Communications System (PCS) Rack

- Base 3'x4'
- Height: 5'

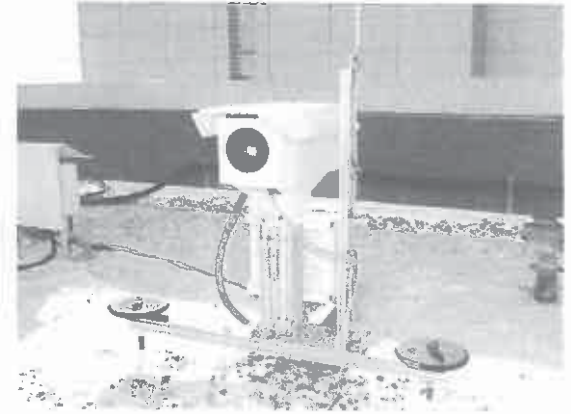
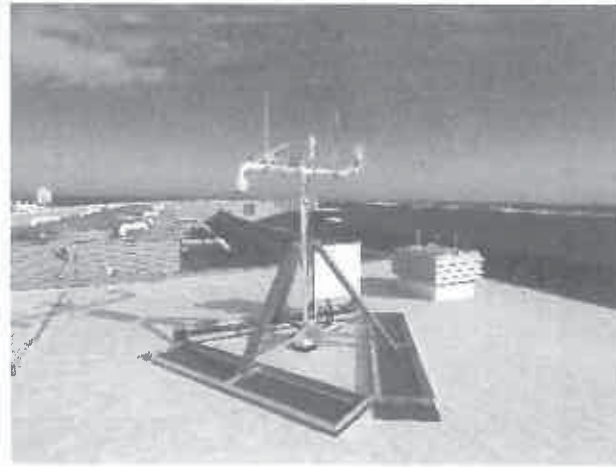
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Equipment at Sites



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Space/Power Requirements

- **Rooftop space approximately 250 square feet**
 - Broad view of the sky preferred
- **Basement/ground level space for a standard size server equipment rack (2'x3'x5')**
 - Dedicated server room not required
 - Ruggedized
- **Space for seismic sensor**
 - Underground vault preferred- 3'x3'x3'
 - Or lowest level of a building
 - Must be in vicinity of equipment rack
- **Power: 2 dedicated 20A/120V circuits**
 - 1 rooftop circuit
 - 1 circuit for the equipment rack

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Installation Timelines

- **Electrical installation**
 - Approximately 2-3 weeks

- **Equipment installation**
 - 1-2 weeks once cable/conduit installed

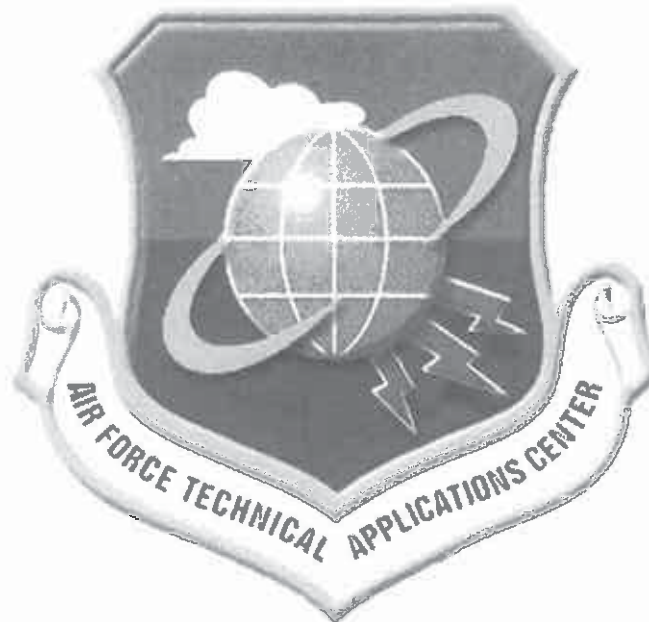
- **Rooftop sensors installation**
 - Crane may be required for installation if service elevator not available

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Questions?



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