

THE PORT AUTHORITY OF NY & NJ

PROCUREMENT DEPARTMENT
2 MONTGOMERY STREET, 3RD FL.
JERSEY CITY, NJ 07302

INVITATION FOR BID/PUBLIC BID OPENING

BID INFORMATION

ISSUED DATE: June 19, 2013

TITLE: Fire Alarm Maintenance at the Port Authority Bus Terminal

BID NO.: 33893

SUBMIT SEALED BIDS BEFORE THE DUE DATE AND TIME TO THE ABOVE ADDRESS
WHERE THEY WILL BE PUBLICLY OPENED AND READ

BID DUE DATE: July 3, 2013

TIME: 11:00 AM

BUYER NAME: Emily Baxter

PHONE NO.: (201) 395-3421

FAX NO.: (201) 395-3425

EMAIL: ebaxter@panynj.gov

BIDDER INFORMATION (TO BE COMPLETED BY THE BIDDER) (PLEASE PRINT)

(NAME OF BIDDING ENTITY)

(ADDRESS)

(CITY, STATE AND ZIP CODE)

(REPRESENTATIVE TO CONTACT-NAME & TITLE

(TELEPHONE)

(FEDERAL TAX I.D. NO.)

(FAX NO.)

____ BUSINESS CORPORATION _____ PARTNERSHIP _____ INDIVIDUAL

____ OTHER (SPECIFY): _____

INVITATION FOR BID

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PART I - STANDARD INFORMATION FOR BIDDERS

1. General Information: The Port Authority of New York and New Jersey

The Port Authority of New York and New Jersey (the “Port Authority” or the “Authority”) is an agency of the States of New York and New Jersey, created and existing by virtue of the Compact of April 30, 1921, made by and between the two States, and thereafter consented to by the Congress of the United States. It is charged with providing transportation, terminal and other facilities of trade and commerce within the Port District. The Port District comprises an area of about 1,500 square miles in both States, centering about New York Harbor. The Port District includes the Cities of New York and Yonkers in New York State, and the cities of Newark, Jersey City, Bayonne, Hoboken and Elizabeth in the State of New Jersey, and over 200 other municipalities, including all or part of seventeen counties, in the two States. The Port Authority manages and/or operates all of the region’s major commercial airports (Newark Liberty International, John F. Kennedy International, Teterboro, LaGuardia and Stewart International Airports), marine terminals in both New Jersey and New York (Port Newark and Elizabeth, Howland Hook and Brooklyn Piers); and its interstate tunnels and bridges (the Lincoln and Holland Tunnels; the George Washington, Bayonne, and Goethals Bridges; and the Outerbridge Crossing), which are vital “Gateways to the Nation.”

In addition, the Port Authority operates the Port Authority Bus Terminal in Manhattan, the largest facility of its kind in the world, and the George Washington Bridge and Journal Square Transportation Center bus stations. A key link in interstate commuter travel, the Port Authority also operates the Port Authority Trans-Hudson Corporation (PATH), a rapid rail transit system linking Newark, and the Jersey City and Hoboken waterfronts, with midtown and downtown Manhattan. A number of other key properties are managed by the agency including but not limited to a large satellite communications facility (the Teleport) in Staten Island, and a resource recovery co-generation plant in Newark. Prior to September 11, 2001, the Port Authority’s headquarters were located in the World Trade Center, and that complex is still owned and being partially redeveloped by the Authority.

2. Form and Submission of Bid

The Bidder shall review carefully every provision of this document, provide all the information required, and sign and return one entire copy to the Port Authority in accordance with the instructions on the Cover Sheet and Part II – Contract Specific Information for Bidders. The Bidder should retain one complete duplicate copy for its own use. The “Signature Sheet” contained herein must be completed and signed by the Bidder. The Pricing Sheet(s) contained herein must also be completed. The bid shall be sealed in the enclosed self-addressed envelope conspicuously marked with the Bidder’s name, address, and Vendor Number, if available. In addition, the outside of the package must clearly state the Bid title, the Bid Collective Number and the Bid Due Date. Failure to properly label submissions may cause a delay in identification, misdirection or disqualification of the submissions. In submitting this bid, the Bidder offers to assume the obligations and liabilities imposed upon it herein and expressly makes the representations and warranties required in this document.

All Bids must be received by the bid custodian on or before the due date and time specified on the cover page, at which time they will be publicly opened and read. Bids are only accepted Monday through Friday, excluding Port Authority holidays, between the hours of 8:00 a.m. and 5:00 p.m., via (1) regular mail, (2) express delivery service (e.g. UPS), or (3) hand delivery. If your bid is to be hand-delivered by messenger or you are planning to attend the formal bid opening, please note that only individuals with valid photo identification will be permitted access to the Port Authority's offices. Individuals without valid identification shall be turned away and their packages not accepted. Bids that are not received by the bid custodian by the scheduled bid opening date will be considered late.

3. Vendor Profile

To ensure maximum opportunities, it is vitally important that Bidders keep their vendor profiles up to date with an appropriate e-mail address, as this will enable their firm to receive timely notice of advertisements, reminders, solicitations and addenda. Bidders may update their vendor profile or register as a Port Authority Vendor by accessing the online registration system at <https://panynjprocure.com/VenLogon.asp>.

4. Acknowledgment of Addenda

If any Addenda are posted or sent as part of this Bid, the Bidder shall complete, sign and include with its Bid the addenda form(s). In the event any Bidder fails to conform to these instructions, its Bid will nevertheless be construed as though the Addenda had been acknowledged.

If the Bidder downloaded this solicitation document, it is the responsibility of the Bidder to periodically check the Port Authority website at <http://www.panynj.gov/business-opportunities/bid-proposal-advertisements.html> and download any addenda that might have been issued in connection with this solicitation.

5. Firm Offer

The Bidder offers to provide the Port Authority of New York and New Jersey the services and to perform all Work in connection therewith required under this Contract, all as specified by the terms and conditions of the Contract, based on the Pricing Sheets provided herein.

EXCEPTIONS TAKEN OR CONDITIONS IMPOSED BY A BIDDER TO ANY PORTION OF THE CONTRACT DOCUMENTS WILL RESULT IN REJECTION OF THE BID.

6. Acceptance or Rejection of Bids

The acceptance of a bid will be by a written notice signed by an authorized representative on behalf of the Authority. No other act of the Port Authority, its Commissioners, officers, agents or employees shall constitute acceptance of a bid. The Port Authority reserves the unqualified right, in its sole and absolute discretion, to reject any or all bids or to accept any bid, which in its judgment will best serve the

public interest and to waive defects in any bid. No rights accrue to any Bidder unless and until its bid is accepted.

7. Bidder's Questions

Any questions by prospective Bidders concerning the Work to be performed or the terms and conditions of the Contract may be addressed to the Contracts Specialist listed on the Cover Sheet of this document. The Contracts Specialist is only authorized to direct the attention of prospective Bidders to the portions of the Contract. No employee of the Port Authority is authorized to interpret any portion of the Contract or to give information in addition to that contained in the Contract. When Contract interpretation or additional information as to the Contract requirements is deemed necessary by the Port Authority, it will be communicated to all Bidders by written addenda issued under the name of the Manager, Purchasing Services Division of the Port Authority and may be posted on the Port Authority website. Addenda shall be considered part of the Contract.

8. Additional Information To and From Bidders

Should the Authority require additional information from the Bidder in connection with its bid, such information shall be submitted within the time frame specified by the Port Authority.

If the Bidder is a corporation, a statement of the names and residences of its officers should be submitted on the Name and Residence of Principals Sheet, directly following the Signature Sheet.

9. Union Jurisdiction

All prospective Bidders are advised to ascertain whether any union now represented or not represented at the Facility will claim jurisdiction over any aspect of the operations to be performed hereunder and their attention is directed to the paragraph entitled "Harmony" in the Standard Contract Terms and Conditions.

10. Assessment of Bid Requirements

The Bidder should carefully examine and study the entire contents of these bid documents and shall make its own determinations as to the services and materials to be supplied and all other things required to be done by the Contractor.

11. Bidder's Prerequisites

Only Bidders who can comply with the prerequisites specified in Part II hereof at the time of the submission of its bid should submit bids, as only bids submitted by such Bidders will be considered. By furnishing this document to the Bidder, the Port Authority has not made a determination that the Bidder has met the prerequisites or has otherwise been deemed qualified to perform the services. A determination that a

Bidder has met the prerequisites is no assurance that it will be deemed qualified in connection with other bid requirements included herein.

12. Qualification Information

The Port Authority may give oral or written notice to the Bidder to furnish the Port Authority with information and to meet with designated representatives of the Port Authority relating to the Bidder's qualifications and ability to fulfill the Contractor's obligations hereunder. The requested information shall be submitted no later than three (3) days after said notice unless otherwise indicated. Matters upon which the Port Authority may inquire may include, but may not be limited to, the following:

- a. The Bidder may be required to demonstrate that it is financially capable of performing this Contract, and the determination of the Bidder's financial qualifications will be made by the Port Authority in its sole discretion. The Bidder shall submit such financial and other relevant information as may be required by the Port Authority from time to time including, but not limited to, the following:
 1. (i) Certified financial statements, including applicable notes, reflecting the Bidder's assets, liabilities, net worth, revenues, expenses, profit or loss and cash flow for the most recent calendar year or the Bidder's most recent fiscal year.

(ii) Where the certified financial statements set forth in (i) above are not available, then either reviewed or compiled statements from an independent accountant setting forth the aforementioned information shall be provided.

(iii) Where neither certified financial statements nor financial statements from an independent accountant are available, as set forth in (i) and (ii) above, then financial statements containing such information prepared directly by the Bidder may be submitted; such financial statements, however, must be accompanied by a signed copy of the Bidder's most recent Federal income tax return and a statement in writing from the Bidder, signed by an executive officer or their authorized designee, that such statements accurately reflect the present financial condition of the Bidder.

Where the statements submitted pursuant to subparagraphs (i), (ii) or (iii) are dated prior to forty-five (45) days before the bid opening, then the Bidder shall submit a statement in writing, signed by an executive officer of the Bidder or their designee, that the present financial condition of the Bidder is at least as good as that shown on the statements submitted.

2. Bidder's statement of work on hand, including any work on which a bid has been submitted, and containing a description of the work, the annual dollar value, the location by city and state, the current percentage of completion, the expected date for completion, and the name of an individual most familiar with the Bidder's work on these jobs.

3. The name and address of the Bidder's banking institution, chief banking representative handling the Bidder's account, the Bidder's Federal Employer Identification Number (i.e., the number assigned to firms by the Federal Government for tax purposes), the Bidder's Dun and Bradstreet number, if any, the name of any other credit service to which the Bidder has furnished information, and the number, if any, assigned by such service to the Bidder's account.
- b. Information relating to the Bidder's Prerequisites, if any, as set forth in this document.
- c. If the Bidder is a corporation: (1) a copy of its Certificate of Incorporation and, if applicable, all Amendments thereto with a written declaration signed by the Secretary of the Corporation with the corporate seal affixed thereto, stating that the copy furnished is a true copy of the Certificate of Incorporation and any such Amendments as of the date of the opening of the bid and (2) if the Bidder is not incorporated under the laws of the state in which the service is to be performed, a certificate from the Secretary of State of said state evidencing the Bidder's legal qualification to do business in that state.
- d. A statement setting forth the names of those personnel to be in overall charge of the service and those who would be exclusively assigned to supervise the service and their specific roles therein, setting forth as to each the number of years of experience and in which functions and capacities each would serve.
- e. Information to supplement any statement submitted in accordance with the Standard Contract Terms and Conditions entitled "Contractor's Integrity Provisions."
- f. In the event that the Bidder's performance on a current or past Port Authority or Port Authority Trans-Hudson Corporation (PATH) contract or contracts has been rated less than satisfactory, the Manager, Purchasing Services Division, may give oral or written notice to the Bidder to furnish information demonstrating to the satisfaction of such Manager that, notwithstanding such rating, such performance was in fact satisfactory or that the circumstances which gave rise to such unsatisfactory rating have changed or will not apply to performance of this Contract, and that such performance will be satisfactory.
- g. The Bidder recognizes that it may be required to demonstrate to the satisfaction of the Port Authority that it in fact can perform the services as called for in this Contract and that it may be required to substantiate the warranties and representations set forth herein and the statements and assurances it may be required to give.

Neither the giving of any of the aforesaid notices to a Bidder, the submission of materials by a Bidder, any meeting which the Bidder may have with the Port Authority, nor anything stated by the Port Authority in any such meeting shall be construed or alleged to be construed as an acceptance of said Bidder's bid. Nothing stated in any such meeting shall be deemed to release any Bidder from its offer as contained in the bid.

13. Facility Inspection

Details regarding the Facility inspection for all parties interested in submitting a bid are stipulated in Part II hereof. All Bidders must present company identification and photo identification for access to the Facility.

14. Available Documents - General

Certain documents, listed in Part II hereof, will be made available for reference and examination by Bidders either at the Facility Inspection, or during regular business hours. Arrangements to review these documents at a time other than the Facility Inspection may be made by contacting the person listed in Part II as the contact for the Facility Inspection.

These documents were not prepared for the purpose of providing information for Bidders upon this Contract but they were prepared for other purposes, such as for other contracts or for design purposes for this or other contracts, and they do not form a part of this Contract. The Port Authority makes no representation or guarantee as to, and shall not be responsible for, their accuracy, completeness or pertinence, and, in addition, shall not be responsible for the inferences or conclusions to be drawn there from.

15. Pre-award Meeting

The lowest qualified Bidder may be called for a pre-award meeting prior to award of the Contract.

16. Price Preference

A price preference may be available for Minority/Women Business Enterprises (M/WBEs) or Small Business Enterprises (SBEs) as set forth in the Standard Contract Terms and Conditions.

17. M/WBE Subcontracting Provisions

The Port Authority has a long-standing practice of making its business opportunities available to Minority Business Enterprises (MBEs) and Women-Owned Businesses (WBEs) and has taken affirmative steps to encourage such firms to seek business opportunities with the Port Authority. The successful Bidder will use good faith efforts to provide for meaningful participation by the Port Authority certified M/WBEs as defined in this document, in the purchasing and subcontracting opportunities associated with this contract, including purchase of equipment, supplies and labor services.

Minority Business Enterprise (MBE) - shall mean a business entity which is at least 51% owned and controlled by one or more members of one or more minority groups, or, in the case of a publicly held corporation, at least 51% of the stock of which is owned by one or more minority groups, and whose management and daily business

operations are controlled by one or more such individuals who are citizens or permanent resident aliens.

"Minority Group" means any of the following racial or ethnic groups:

- (a) Black persons having origins in any of the Black African racial groups not of Hispanic origin;
- (b) Hispanic persons of Mexican, Puerto Rican, Dominican, Cuban, Central or South American culture or origin, regardless of race;
- (c) Asian and Pacific Islander persons having origins in any of the original peoples of the Far East, Southeast Asia, The Indian Subcontinent, or the Pacific Islands;
- (d) Native American or Alaskan native persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification.

Women-Owned Business Enterprise (WBE) - shall mean a business enterprise which is at least 51% owned by one or more women, or, in the case of a publicly held corporation, at least 51% of the stock of which is owned by one or more women and whose management and daily business operations are controlled by one or more women who are citizens or permanent or resident aliens.

Good faith efforts to include participation by M/WBEs shall include, but not be limited to the following:

- 1) Dividing the services and materials to be procured into small portions where feasible;
- 2) Giving reasonable advance notice of specific subcontracting and purchasing opportunities to such firms as may be appropriate;
- 3) Soliciting services and materials from M/WBEs, which are certified by the Port Authority;
- 4) Ensuring that provision is made for timely progress payments to the M/WBEs and;
- 5) Observance of reasonable commercial standards of fair dealing in the respective trade or business.

Bidders are directed to use form PA3749B as the recording mechanism for the M/WBE participation Plan, which may be downloaded at <http://www.panynj.gov/business-opportunities/become-vendor.html>

The M/WBE Plan submitted by the Contractor to the Port Authority shall contain, at a minimum, the following:

- Identification of M/WBE's: Provide the names and addresses of all M/WBEs included in the Plan. If none are identified, describe the process for selecting participant firms in order to achieve the good faith goals under this Contract.
- Level of Participation: Indicate the percentage of M/WBE participation expected to be achieved with the arrangement described in the Plan.
- Scope of Work: Describe the specific scope of work the M/WBE's will perform.
- Previous M/WBE Participation: Describe any previous or current M/WBE participation, which the Bidder has utilized in the performance of its contracts.

All M/WBE subcontractors listed on the M/WBE Participation Plan must be certified by the Port Authority in order for the Contractor to receive credit toward the M/WBE goals set forth in this Contract. Please go to www.panynj.gov/supplierdiversity to search for M/WBEs by a particular commodity or service. The Port Authority makes no representation as to the financial responsibility of such firms or their ability to perform Work under this Contract.

Bidders shall include their M/WBE Participation Plan with their Bids, to be reviewed and approved by the Authority's Office of Business Diversity and Civil Rights (OBDCR).

If the Contractor wishes to subcontract a portion of the Work through a firm not listed in the Directory, but which the Contractor believes should be eligible because it is (1) an M/WBE, as defined above and (2) competent to perform portions of the Work, the Contractor shall submit an M/WBE Uniform Certification Application to the Port Authority of New York and New Jersey, Office of Business Diversity and Civil Rights (OBDCR), 233 Park Avenue South, 4th Floor, New York, NY 10003. The application is available online at www.panynj.gov/supplierdiversity. In addition, to update your certification file and to advise OBDCR of changes to any information, please email these changes to OBJOcert@panynj.gov. Credit toward applicable goals will be granted only to Port Authority certified vendors. For more information about M/WBE Programs, call (212) 435-7819.

18. Certification of Recycled Materials

Bidders are requested to submit, with their bid, a written certification entitled "Certified Environmentally Preferable Products / Practices" attached hereto as "Attachment I-A", attesting that the products or items offered by the Bidder contain the minimum percentage of post-consumer recovered material in accordance with the most recent guidelines issued by the United States Environmental Protection Agency (EPA), or, for commodities not so covered, the minimum percentage of post-consumer recovered materials established by other applicable regulatory agencies. The data submitted by the Bidder in Attachment I-A is being solicited for informational purposes only.

Recycling Definitions:

For purposes of this solicitation, the following definitions shall apply:

- a. "Recovered Material" shall be defined as any waste material or by-product that has been recovered or diverted from solid waste, excluding those materials and by-products generated from, and commonly reused within, an original manufacturing process.
- b. "Post-consumer Material" shall be defined as any material or finished product that has served its intended use and has been discarded for disposal or recovery having completed its life as a consumer item. "Post-consumer material" is included in the broader category of "Recovered Material".
- c. "Pre-consumer Material" shall be defined as any material or by-product generated after the manufacture of a product but before the product reaches the consumer, such as damaged or obsolete products. Pre-consumer Material does not include mill and manufacturing trim, scrap, or broken material that is generated at a manufacturing site and commonly reused on-site in the same or another manufacturing process.
- d. "Recycled Product" shall be defined as a product that contains the highest amount of post-consumer material practicable, or when post-consumer material is impracticable for a specific type of product, contains substantial amounts of Pre-consumer Material.
- e. "Recyclable Product" shall be defined as the ability of a product and its packaging to be reused, reconditioned for use, or recycled through existing recycling collection programs.
- f. "Waste Reducing Product" shall be defined as any product that will result in less waste generated due to its use rather than another product designed to serve the same function with an greater waste generation rate. This shall include, but not be limited to, those products that can be reused, refilled or have a longer life expectancy and contain a lesser amount of toxic constituents.

19. City Payroll Tax

Bidders should be aware of the payroll tax imposed by the:

- a) City of Newark, New Jersey for services performed in Newark, New Jersey;
- b) City of New York, New York for services performed in New York, New York;
and
- c) City of Yonkers, New York for services performed in Yonkers, New York.

These taxes, if applicable, are the sole responsibility of the Contractor. Bidders should consult their tax advisors as to the effect, if any, of these taxes. The Port Authority provides this notice for informational purposes only and is not responsible for either the imposition or administration of such taxes. The Port Authority exemption set forth in the Paragraph headed "Sales or Compensating Use Taxes", in the Standard Contract Terms and Conditions included herein, does not apply to these taxes.

20. Additional Bidder Information

Prospective Bidders are advised that additional vendor information, including but not limited to, forms, documents and other information, including protest procedures, may be found on the Port Authority website at: <http://www.panynj.gov/business-opportunities/become-vendor.html>

ATTACHMENT I A - Certified Environmentally Preferable Products/Practices

Bidder Name: _____ Date: _____

In line with the Port Authority's efforts to promote products and practices which reduce our impact on the environment and human health, Bidders are encouraged to provide information regarding their environmentally preferable/sustainable business practices as they relate to this contract wherever possible. Bidders are requested to complete this form and submit it with their response, if appropriate. Bidders are requested to submit appropriate documentation to support the items for which the Bidder indicates a "Yes" and present this documentation, in the proper sequence of this Attachment.

1. Packaging

Has the Bidder implemented any of the following environmental initiatives? (A checkmark indicates "Yes")

- ___ Use of corrugated materials that exceed the required minimum EPA recommended post-consumer recycled content
- ___ Use of other packaging materials that contain recycled content and are recyclable in most local programs
- ___ Promotes waste prevention and source reduction by reducing the extent of the packaging and/or offering packaging take-back services, or shipping carton return
- ___ Reduces or eliminates materials which have been bleached with chlorine or chlorine derivatives
- ___ Eliminates any packaging that may contain polyvinyl chloride (PVC), or polystyrene or heavy metals.

If yes, a description of the practices being followed should be include with the submission.

2. Business Practices / Operations / Manufacturing

Does the Bidder engage in practices that serve to reduce or minimize an impact to the environment, including, but not necessarily limited to, the following items? (A checkmark indicates "Yes")

- ___ Recycles materials in the warehouse or other operations
- ___ Use of alternative fuel vehicles or vehicles equipped with diesel emission control devices for delivery or transportation purposes
- ___ Use of energy efficient office equipment or signage or the incorporation of green building design elements
- ___ Use of recycled paper (that meets federal specifications) in their marketing and/or resource materials
- ___ Other sustainable initiative

If yes, a description of the practices being followed should be included with the submission.

3. Training and Education

Does the Bidder conduct/offer a program to train or inform customers and employees of the environmental benefits of the products to be offered under this contract, and/or does the Bidder conduct environmental training of its own staff?

- Yes No If yes, Bidder shall attach a description of the training offered and the specific criteria targeted by the training.

4. Certifications

Has the Bidder or any of its manufacturers and/or subcontractors obtained any of the following product / industry certifications? (A checkmark indicates "Yes")

- ___ ISO 14000 or adopted some other equivalent environmental management system
- ___ Other industry environmental standards (where applicable), such as the CERES principles, LEED Certification, C2C Protocol, Responsible Care Codes of Practice or other similar standards
- ___ Third Party product certifications such as Green Seal, Scientific Certification Systems, Smartwood, etc.

If yes, Bidders should attach copies of the certificates obtained.

I hereby certify under penalty of law, the above statements are true and correct.

_____ Name _____ Date

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PART II - CONTRACT SPECIFIC INFORMATION FOR BIDDERS

The following information may be referred to in other parts hereof, or further detailed in other parts hereof, if applicable.

1. Service(s) Required

Inspections, maintenance, testing, repairs and central station monitoring services of the fire alarm and suppression systems (Systems) at the Port Authority Bus Terminal (PABT).

2. Location(s) Services Required

PABT in New York, New York (NY), as more fully described in the definition of "Facility" in the Specifications.

3. Expected Date of Commencement of Contract

On or about August 5, 2013.

4. Contract Type

Unit Price Service Contract.

5. Duration of Contract

Two (2) years, expiring on or about August 4, 2015.

6. Option Period(s)

There shall be up to one (1), one (1) year Option Period.

7. Price Adjustment during Option Period(s) (Index Based)

Price adjustment during the Option Period(s) shall be pursuant to the clause entitled "Price Adjustment" in Part III hereof.

8. Extension Period

Up to 120-days applicable

9. Facility Inspection

Date and Time: Wednesday, June 26th at 10 AM

Please contact Ernest Peart at 212.502.2214 or epeart@panynj.gov to confirm attendance and/or receive travel directions.

10. Specific Bidder's Prerequisites

- a. The Bidder shall have had at least three (3) years of continuous experience immediately prior to the date of submission of its bid in the management and operation of a fire alarm and suppression maintenance and central station monitoring business, and during that time shall have actually engaged in providing said or such services to commercial or industrial accounts under contract. The Bidder may fulfill this prerequisite if the Bidder can demonstrate to

- the satisfaction of the Port Authority that the persons or entities owning and controlling the Bidder have had a cumulative total of at least three (3) years of experience immediately prior to the date of the submission of its bid in the management and operation of a business actually engaged in providing these services to commercial or industrial accounts under contract during that time, or have owned and controlled other entities which have actually engaged in providing the above described services during that time period.
- b. During the time period stated in (a) above, the Bidder, or persons or entities owning and controlling the Bidder, shall have performed or be performing under at least two (2) contracts requiring similar services of similar scope to those required under this Contract.
 - c. The Bidder and its Subcontractor(s), as approved by the Manager, shall only be those authorized by Siemens Building Technologies and Edwards Signaling, to perform inspections, maintenance, testing and repairs on the fire alarm and suppression systems at the PABT.
 - d. The Bidder must own or utilize a New York City Fire Department-approved Central Monitoring facility.

PROOF THAT THE ABOVE PREREQUISITES ARE MET SHOULD BE SUBMITTED WITH THE BID.

11. Available Documents

The following documents will be made available for reference and examination at the Facility Inspection:

Fire Alarm Maintenance at the Port Authority Bus Terminal – Contract #4600006719
– Purchase Order #4500051411

BT 200.200 – Work Order #4 – Upgrade of Fire Alarm Systems

BT 300 – Upgrade of Life Safety Control Systems

12. Contractor Staff Background Screening

The Contractor awarded this contract may be required to have its staff, and any subcontractor's staff working under this Contract, authorize the Authority or its designee to perform background checks. Such authorization shall be in a form acceptable to the Authority. The Contractor (and subcontractor) may also be required to use an organization designated by the Authority to perform the background checks. The cost for said background checks for staff that pass and are granted a credential shall be reimbursable to the Contractor (and its subcontractors) as an out-of-pocket expense. Staff that are rejected for a credential for any reason are not reimbursable.

As of January 29, 2007, the Secure Worker Access Consortium (S.W.A.C.) is the only Port Authority approved provider to be used to conduct background screening, except as otherwise required by federal law and/or regulation. Information about

S.W.A.C., instructions, corporate enrollment, online applications, and location of processing centers can be found at <http://www.secureworker.com>, or S.W.A.C. may be contacted directly at (877)522-7922.

**PART III – CONTRACT SPECIFIC TERMS AND CONDITIONS,
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PART III – CONTRACT SPECIFIC TERMS AND CONDITIONS

1. General Agreement

Subject to all of the terms and conditions of this Contract, the undersigned (hereinafter called the “Contractor”) hereby offers and agrees to provide all the necessary supervision, personnel, equipment, materials and all other things necessary to perform the Work required by this Contract as specified in Part II, and fully set forth in the Specifications, at the location(s) listed in Part II and fully set forth in the Specifications, and do all other things necessary or proper therefor or incidental thereto, all in strict accordance with the provisions of the Contract Documents and any future changes therein; and the Contractor further agrees to assume and perform all other duties and obligations imposed upon it by this Contract.

In addition, all things not expressly mentioned in the Specifications but involved in the carrying out of their intent and in the complete and proper execution of the matters referred to in and required by this Contract are required by the Specifications, and the Contractor shall perform the same as though they were specifically delineated, described and mentioned therein.

2. Duration

- a) The initial term of this Contract (hereinafter called the “Base Term”) shall commence on or about the date specified in Part II hereof, on the specific date set forth in the Port Authority’s written notice of bid acceptance (hereinafter called the “Commencement Date”), and unless otherwise terminated, revoked or extended in accordance with the provisions hereof, shall expire as specified in Part II hereof (hereinafter called the “Expiration Date”).
- b) If specified as applicable to this Contract and set forth in Part II hereof, the Port Authority shall have the right to extend this Contract for additional period(s) (hereinafter referred to as the “Option Period(s)”) following the Expiration Date, upon the same terms and conditions subject only to adjustments of charges, if applicable to this Contract, as may be hereinafter provided in the paragraph entitled “Price Adjustments”. If the Port Authority shall elect to exercise the Option(s) to extend this Contract, then, no later than thirty (30) days prior to the Expiration Date, the Port Authority shall send a notice that it is extending the Base Term of this Contract, and this Contract shall thereupon be extended for the applicable Option Period. If the Contract provides for more than one Option Period, the same procedure shall apply with regard to extending the term of this Contract for succeeding Option Periods.
- c) Unless specified as not applicable to this Contract in Part II hereof, the Port Authority shall have the absolute right to extend the Base Term for an additional period of up to one hundred and twenty (120) days subsequent to the Expiration Date of the Base Term, or the Expiration Date of the final exercised Option Period (hereinafter called the “Extension Period”), subject to the same terms and conditions as the previous contract period. The prices quoted by the Contractor

for the previous contract period shall remain in effect during this Extension Period without adjustment. If it so elects to extend this Contract, the Port Authority will advise the Contractor, in writing, that the term is so extended, and stipulate the length of the extended term, at least thirty (30) days prior to the expiration date of the previous contract period.

3. Payment

Subject to the provisions of this Contract, the Port Authority agrees to pay to the Contractor and the Contractor agrees to accept from the Port Authority as full and complete consideration for the performance of all its obligations under this Contract and as sole compensation for the Work performed by the Contractor hereunder, a compensation calculated from the actual quantities of services performed and the respective prices inserted by the Contractor in the Pricing Sheet(s), forming a part of this Contract, exclusive of compensation under the clause hereof entitled "Extra Work". The manner of submission of all bills for payment to the Contractor by the Port Authority for Services rendered under this Contract shall be subject to the approval of the Manager in all respects, including, but not limited to, format, breakdown of items presented and verifying records. All computations made by the Contractor and all billing and billing procedures shall be done in conformance with the following procedures:

- a) Payment shall be made in accordance with the prices for the applicable service (during the applicable Contract year) as they appear on the Pricing Sheet(s), as the same may be adjusted from time to time as specified herein, minus any deductions for services not performed and/or any liquidated damages to which the invoice may be subject and/or any adjustments as may be required pursuant to increases and decreases in areas or frequencies, if applicable. All Work must be completed within the time frames specified or as designated by the Manager.
- b) The Contractor shall submit to the Manager by the fifth day of each month following the month of commencement of this Contract and on or by the fifth day of each month thereafter (including the month following the termination, revocation or expiration of this Contract) a complete and correct invoice for the Work performed during the preceding month accompanied by such information as may be required by the Manager for verification. The invoice must show the Contractor's Federal Tax Identification Number. Payment will be made within thirty (30) days of Port Authority verification of the invoice.
- c) No certificate, payment, acceptance of any Work or any other act or omission of any representative of the Port Authority shall operate to release the Contractor from any obligation under or upon this Contract, or to stop the Port Authority from showing at any time that such certificate, payment, acceptance, act or omission was incorrect or to preclude the Port Authority from recovering any monies paid in excess of those lawfully due and any damage sustained by the Port Authority.
- d) In the event an audit of received invoices should indicate that the correct sum due the Contractor for the relevant billing period is less than the amount actually paid by the Port Authority, the Contractor shall pay to the Port Authority the

difference promptly upon receipt of the Port Authority's statement thereof. The Port Authority may, however, in its discretion elect to deduct said sum or sums from any subsequent monthly payments payable to the Contractor hereunder.

"Final Payment", as the term is used throughout this Contract, shall mean the final payment made for services rendered in the last month of the Base Term or any extended term. However should this Contract be terminated for any reason prior to the last month of the Base Term or any extended term, then Final Payment shall be the payment made for services rendered in the month during which such termination becomes effective. The Contractor's acceptance of Final Payment shall act as a full and complete release to the Port Authority of all claims of and of all liability to the Contractor for all things done or furnished in connection with this Contract and for every act and neglect of the Port Authority and others relating to or arising out of this Contract, including claims arising out of breach of contract and claims based on claims of third persons. No payment, however, final or otherwise shall operate to release the Contractor from any obligations in connection with this Contract.

4. Price Adjustment

All Contract prices submitted by the Contractor and agreed to by the Port Authority, shall be applicable to the two (2) years of the Base Term. For the Option Period(s) that are applicable to this Contract and are exercised hereunder, (excluding the 120 day Extension Period as described in the paragraph entitled "Duration" in PART III, hereof) The Port Authority shall adjust the compensation due to the Contractor utilizing the Consumer Price Index for all Urban Consumers; Series Id: CUURA101SA0L2; Not Seasonally Adjusted; New York-Northern New Jersey-Long Island, NY-NJ_CT-PA area; all items less shelter; 1982-1984=100, published by the Bureau of Labor Statistics of the United States Department of Labor (hereinafter called the "Price Index").

For the first Option Period of the Contract, the Price Index shall be determined for the months of February 2014 and February 2015. The amounts payable to the Contractor in the final year of the Base Term shall be multiplied by a fraction, the numerator of which is the Price Index for February 2015 and the denominator of which is the Price Index for February 2014. The resulting product shall be the amounts payable to the Contractor in the first Option Period.

In the event of a change in the basis for the computation of the said Index or the discontinuance of its publication, such other appropriate index shall be substituted as may be agreed upon by the Authority and the Contractor as properly reflecting changes in the value of the current United States money in a manner similar to that established in the said Price Index. In the event of the failure of the parties to so agree, the Port Authority may select and use such index, as it seems appropriate. Notwithstanding the provisions of this section, in no event shall any adjustment hereunder be greater than three (3%) per annum.

The amounts payable to the Contractor during the 120-day Extension Period shall not be subject to adjustment.

If, after an adjustment referred to in this Section, the Index used for computing such adjustment shall be changed or adjusted, then the amounts payable to the Contractor for that period shall be recomputed. If such recomputation results in a smaller increase in the amount payable to such period, then after notification of the change or adjustment, the recomputed amounts shall be in effect and upon demand by the Port Authority, the Contractor shall refund to the Port Authority excess amounts theretofore paid by the Port Authority for such period.

5. Liquidated Damages

a) The Contractor's obligations for the performance and completion of the Work within the time or times provided for in this Contract are of the essence of this Contract. In the event that the Contractor fails to satisfactorily perform all or any part of the Work required hereunder in accordance with the requirements set forth in the Specifications (as the same may be modified in accordance with provisions set forth elsewhere herein) then, inasmuch as the damage and loss to the Port Authority for such failure to perform includes items of loss whose amount will be incapable or very difficult of accurate estimation, the damages for such failure to perform shall be liquidated as follows:

i. Failure to Perform Any or All of the Work in the Specification

If the Contractor fails to satisfactorily perform any or all of the Work, as determined by the Manager, as set forth in the Specifications at the frequencies therein stated, then the compensation payable by the Port Authority to the Contractor shall be reduced by an amount equal to two hundred percent (200%) of the unit price inserted by the Contractor in Part IV, Contractor's Pricing Sheets.

ii. Failure to Respond to and/or Perform Emergency Services

If the Contractor fails to respond to and/or perform emergency services within the time provided in the Specifications, then the amount payable to the Contractor under this Contract shall be reduced by four hundred dollars (\$400) per hour for each hour, or part thereof, past the time that the Contractor fails to provide the required service.

iii. Failure to Perform Project Work

If the Contractor fails to perform the Project Work within the time provided in the Specifications, then the amount payable to the Contractor under this Contract shall be reduced by fifty dollars (\$50) per form or part thereof, per day, multiplied by the number of days or fractions of days thereof, past the time that the Contractor fails to provide the required Project Work.

iv. Failure to Provide Two On-Site Service Technicians

If the Contractor fails to provide two (2) on-site Service Technicians as provided in the Specifications, then the compensation payable by the Port Authority to the Contractor shall be reduced by an amount equal to two hundred percent (200%) of the unit price inserted by the Contractor in Part IV, Contractor's Pricing Sheets.

v. Failure to Respond to/Perform Extra Work

If the Contractor fails to respond to and/or perform Extra Work when such is deemed necessary by the Manager, then the amount payable to the Contractor under this Contract shall be reduced by two hundred dollars (\$200) per hour for each hour past the time designated by the Manager in his/her directive to begin such work.

vi. Failure to Provide Required or Requested Information

In the event that, for any reason, the Contractor fails to maintain or provide or have available when required or requested by the Port Authority or fails to submit any documentation, reports or records as required, the amount payable to the Contractor hereunder shall be reduced by an amount equal to fifty dollars (\$50) per day multiplied by the number of days or fractions of days thereof the Contractor fails to maintain or provide any documentation, reports or records, as the Port Authority shall determine from time to time in its sole discretion.

vii. For "Lapse of Insurance Coverage"

If the Contractor fails to provide the Manager with the approved certificates of insurance no less than fifteen (15) days prior to the expiration of each policy as required hereunder, then the amount payable hereunder shall be reduced by one hundred dollars (\$100) for each day such certificates are past due.

viii. Failure to wear uniform/ID

In the event that the Contractor's employees fail to comply with the uniform and identification (ID) requirements as set forth in Part V, Specifications, then the amount payable hereunder shall be reduced by an amount equal to twenty-five dollars (\$25) per violation, multiplied by the number of days or major fractions thereof that the Contractor's employees fail to comply with the uniform and/or identification requirements.

- b) The Manager shall determine whether the Contractor has performed in a satisfactory manner and their determination shall be final, binding and conclusive upon the Contractor.
- c) Failure of the Manager or the Port Authority to impose liquidated damages shall not be deemed Port Authority acceptance of unsatisfactory performance or a

failure to perform on the part of the Contractor or a waiver of its remedies hereunder.

6. Insurance

The Contractor shall take out, maintain, and pay the premiums on Commercial General Liability Insurance, including but not limited to premises-operations, products-completed operations, and independent contractors coverage, with a contractual liability endorsement covering the obligations assumed by the contractor under this contract, AND, if vehicles are to be used to carry out the performance of this Contract, then the Contractor shall also take out, maintain, and pay the premiums on Automobile Liability Insurance covering owned, non-owned, and hired autos in the following minimum limits:

a) Commercial General Liability Insurance:

\$3,000,000 Combined Single Limit per occurrence for Bodily Injury and Property Damage. If Work is to be performed on or within 50 feet of railroad property, then the contractual liability coverage shall contain an endorsement deleting any railroad exclusion.

b) Commercial Automobile Liability Insurance:

\$2,000,000 Combined Single Limit per occurrence for Bodily Injury and Property Damage.

c) Workers' Compensation Insurance and Employers' Liability Insurance:

The Contractor and Subcontractor shall procure and maintain, at their own expense a policy of workers' compensation insurance as required by law where the work will take place and employers' liability insurance with limits of not less than \$1,000,000 per accident. And **where applicable**, the Contractor and/or the Subcontractor shall also include one or more endorsements to cover for (i) Federal Employer's Liability Act (work near railroad), (ii) Longshore and Harbor Workers' Compensation Act (work on or around navigable waters), (iii) Maritime Coverage (for masters or members of the crews of vessels).

Compensation for such Workers' Compensation Insurance and Employers' Liability Insurance shall be in accordance with the clause of the Form of Contract entitled "Net Cost."

In addition, the policy(ies) shall include the Port Authority and its wholly owned entities as an additional insured and the policy(ies) and its certificate must be specifically endorsed to contain a provision that the policy may not be canceled, terminated, or modified without thirty (30) days' prior written notice to the Port Authority of New York and New Jersey, Attn: Facility Contract Administrator, at the location where the work will take place and to the General Manager, Risk Financing.

The Commercial General Liability Policy shall not contain any provisions for exclusions from liability other than those forming part of the standard, basis, unamended, and unendorsed Commercial General Liability Policy. The liability policies shall be endorsed to state that the insurer shall not, without obtaining the express advance written permission from the General Counsel of the Port Authority, raise any defense involving in any way the jurisdiction of the tribunal over the person of the Port Authority, the immunity of the Port Authority, its Commissioners, officers, agents or employees, the governmental nature of the Port Authority, or the provisions of any statutes respecting suits against the Port Authority.

All the aforesaid policies of liability insurance shall also contain an endorsement deleting any exclusion for severability of interests so that the policy or policies will provide that the protections afforded the Contractor thereunder with respect to any claim or action against the Contractor by a third person shall pertain and apply with like effect with respect to a claim or action against the Contractor by the Port Authority and that said protections shall also pertain or apply with respect to any claim or action against the Port Authority by the Contractor, but such endorsement shall not limit, vary, change or affect the protections afforded the Port Authority thereunder as an additional insured.

Within five (5) days after the acceptance of its Proposal, the Contractor shall deliver to the General Manager, Risk Financing, The Port Authority of New York and New Jersey, 225 Park Avenue South, 12th Floor, New York, N.Y. 10003 (Attn: Contract Insurance Review), certificate of insurance evidencing the above insurance and endorsements, **stating the Contract number and title** and containing a separate express statement of compliance with each of the requirements above set forth in this Section. Upon the request of the General Manager, Risk Financing, the Contractor shall meet with the General Manager, Risk Management and furnish for the Port Authority's inspection either the policies themselves or a certified copy of each policy and, if further requested, the provisions for establishing premiums. The Port Authority will not require that the Contractor leave this information with the Port Authority. The Contractor shall retain all documents and copies thereof.

The requirements of this Section are for the greater assurance of the Port Authority that the Contractor will be financially able to discharge its obligations under the Section hereof entitled "Risks Assumed by the Contractor" and shall not in any way be construed as a limitation on the nature or extent of such obligations. If at any time the above liability insurance should be canceled, terminated or modified so that insurance is not in effect as above required, then if the General Manager, Risk Financing shall so direct, the Contractor shall suspend performance of this Contract. If the Contract is so suspended, no extension of time shall be due on account thereof. If the Contract is not so suspended (whether or not because of omission of the General Manager to order suspension), then the Port Authority may at its option, obtain insurance affording coverage equal to the above required, the cost of such insurance to be payable by the Contractor to the Port Authority. [CITS # 4255N]

7. Increase and Decrease in Areas or Frequencies

The Manager shall have the right, at any time and from time to time in their sole discretion, to increase or decrease the frequencies of all or any part of the services required hereunder and/or to add areas not described herein in the Specifications or remove areas or parts of areas which are hereunder so described. In the event the Manager decides to change any frequencies or areas such change shall be by written notice not less than fifteen (15) days, said changes to be effective upon the date specified in said notice.

In the event of an increase or decrease in areas or frequencies, the Contractor's compensation will be adjusted to reflect such change in areas or frequencies utilizing the applicable Unit Price for such services (for the applicable Contract year) as set forth on the Pricing Sheet(s).

Where no specific Unit Price has been quoted for the type of services to be increased or decreased, the Manager shall have the right to negotiate the compensation to reflect such change, whether an increase or decrease in areas or frequencies, which, in the opinion of the Manager, are necessary to complete the work, by multiplying the increased or decreased amount by the negotiated rate.

In the event of a decrease, the Contractor shall not be entitled to compensation for Work not performed.

Any increases in frequencies or areas shall not constitute Extra Work and, as such, shall not be limited by the Extra Work provisions of this Contract.

8. Extra Work

The Contractor is required to provide separate materials, supplies, equipment and personnel for Extra Work when such is deemed necessary by the Manager. "Extra Work" as used herein shall be defined as work which differs from that expressly or impliedly required by the Specifications in their present form. Total Extra Work performed by the Contractor shall not exceed six percent (6%) of the Total Estimated Contract Price of this Contract for the entire Term of this Contract including extensions thereof, or six percent (6%) of the Total Estimated Contract Price of each Section if this Contract is awarded by separate Sections.

If Extra Work is to be performed under this section, the Contractor's compensation shall be increased by the following amounts, and such amounts only:

An increase in area or frequency does not constitute Extra Work, but shall be compensable based on the prices in the Pricing Sheet(s) and the paragraph herein titled "Increase or Decrease in Areas or Frequencies".

The Contractor is required to perform Extra Work pursuant to a written order of the Manager expressly recognizing such work as Extra Work. If Lump Sum or Unit Price compensation cannot be agreed upon by the parties in writing prior to the start of Work, the Contractor shall perform such Extra Work and the Contractor's compensation shall be increased by the sum of the following amounts and such amounts only: (1) the actual net cost, in money, of the labor, and material, required for such Extra Work; (2) six percent (6%) of the amount under (1) above; (3) such

rental as the Manager deems reasonable for plant and equipment (other than small tools) required for such Extra Work; (4) if the Extra Work is performed by a subcontractor, an additional three percent (3%) of the sum of the amounts under (1) through (3) above.

As used in this numbered clause (and in this clause only):

“Labor” means laborers, mechanics, and other employees below the rank of supervisor, directly employed at the Site of the Work subject to the Manager or their designee’s authority to determine what employees of any category are “required for Extra Work” and as to the portion of their time allotted to Extra Work; and “cost of labor” means the wages actually paid to and received by such employees plus a proper proportion of (a) vacation allowances and union dues and assessments which the employer actually pays pursuant to contractual obligation upon the basis of such wages, and (b) taxes actually paid by the employer pursuant to law upon the basis of such wages and workers’ compensation premiums paid pursuant to law.

“Employees” as used above means only the employees of one employer.

“Net Cost” shall be the Contractor’s actual cost after deducting all permitted cash and trade discounts, rebates, allowances, credits, sales taxes, commissions, and refunds (whether or not any or all of the same shall have been taken by the Contractor) of all parts and materials purchased by the Contractor solely for the use in performing its obligation hereunder provided, where such purchase has received the prior written approval of the Manager as required herein. The Contractor shall promptly furnish to the Manager such bills of sale and other instruments as the Manger may require,, executed, acknowledged and delivered, assuring to the Manager title to such materials, supplies, equipment, parts, and tools free of encumbrances.

“Materials” means temporary and consumable materials as well as permanent materials; and “cost of materials” means the price (including taxes actually paid by the Contractor pursuant to law upon the basis of such materials) for which such materials are sold for cash by the manufacturers or producers thereof, or by regular dealers therein, whether or not such materials are purchased directly from the manufacturer, producer or dealer (or if the Contractor is the manufacturer or producer thereof, the reasonable cost to the Contractor of the manufacture and production), plus the reasonable cost of delivering such materials to the Site of the Work in the event that the price paid to the manufacturer, producer or dealer does not include delivery and in case of temporary materials, less their salvage value, if any.

The Manager shall have the authority to decide all questions in connection with the Extra Work. The exercise by the Manager of the powers and authorities vested in him/her by this section shall be binding and final upon the Port Authority and the Contractor.

The Contractor shall submit all reports, records and receipts as are requested by the Manager so as to enable him/her to ascertain the time expended in the performance of the Extra Work, the quantity of labor and materials used therein and the cost of said labor and materials to the Contractor.

The provisions of this Contract relating generally to Work and its performance shall apply without exception to any Extra Work required and to the performance thereof. Moreover, the provisions of the Specifications relating generally to the Work and its performance shall also apply to any Extra Work required and to the performance thereof, except to the extent that a written order in connection with any particular item of Extra Work may expressly provide otherwise.

If the Contractor deems work to be Extra Work, the Contractor shall give written notice to the Manager within twenty-four (24) hours of performing the work that it so considers as Extra Work, and failure of the Contractor to provide said notice shall be a waiver of any claim to an increase in compensation for such work and a conclusive and binding determination that it is not Extra Work.

The Contractor shall supply the amount of materials, supplies, equipment and personnel required by the Manager within seventy-two (72) hours following the receipt of written or verbal notice from the Manager, or in the case of an emergency as determined by the Manager, within twenty-four (24) hours following the receipt by the Contractor of the Manager's written or oral notification. Where oral notification is provided hereunder, the Manager shall thereafter confirm the same in writing.

All Extra Work shall be billed to the Port Authority on a separate invoice on a monthly basis.

PART IV – SIGNATURE SHEET, NAME AND RESIDENCE OF PRINCIPALS SHEET AND PRICING SHEET(S), TABLE OF CONTENTS

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**PART IV – SIGNATURE SHEET, NAME AND RESIDENCE OF PRINCIPALS SHEET
AND PRICING SHEET(S)**

1. SIGNATURE SHEET

OFFER: The undersigned offers and agrees to furnish to the Port Authority of New York and New Jersey the services and/or materials in compliance with all terms, conditions, specifications and addenda of the Contract. Signature also certifies understanding and compliance with the certification requirements of the standard terms and conditions as contained in the Standard Contract Terms and Conditions. This offer shall be irrevocable for 120 days after the date on which the Port Authority opens this bid.

**ONLY THE COMPANY NAMED AS THE BIDDING ENTITY BELOW WILL
RECEIVE PAYMENT. THIS MUST BE THE SAME NAMED COMPANY AS
INDICATED ON THE COVER SHEET**

Bidding Entity _____

Bidder's Address _____

City, State, Zip _____

Telephone No. _____ FAX _____

Email _____ EIN# _____

SIGNATURE _____ Date _____

Print Name and Title _____

ACKNOWLEDGEMENT:

STATE OF: _____

COUNTY OF: _____

On this ___ day of _____, 20___, personally came before me,
_____, who duly sworn by me, did depose that (s)he has knowledge of the
matters herein stated and they are in all respects true and that (s)he has been authorized to
execute the foregoing offer and statement of irrevocability on behalf of said corporation,
partnership or firm.

Notary Public

NOTE: If a joint venture is bidding, duplicate this Signature Sheet and have each party to the joint
venture sign separately and affix to the back of this Signature Sheet.

Bidder attention is called to the certification requirements contained in the Standard Contract Terms and
Conditions, Part III. Indicate below if a signed, explanatory statement in connection with this section is
attached hereto.

If certified by the Port Authority as an SBE or MWBE: _____ (indicate which one and date).

2. NAME AND RESIDENCE OF PRINCIPALS SHEET

Names and Residence of Principals of Bidder. If general or limited partner, or individual, so indicate.

NAME	TITLE	ADDRESS OF RESIDENCE (Do not give business address)
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3. PRICING SHEET(S)

Entry of Prices

- a. The prices quoted shall be written in figures, in ink, preferably in black ink where required in the spaces provided on the Pricing Sheet(s) attached hereto and made a part hereof.
- b. All Bidders are asked to ensure that all charges quoted for similar operations in the Contract are consistent.
- c. Prices must be submitted for each Item required on the Pricing Sheet(s). Bidders are advised that the Items on the Pricing Sheet(s) correspond to the required services set forth in the Specifications hereunder.
- d. Bidders must insert all figures as required and verify all computations for accuracy. The Port Authority in its sole judgment reserves the right to: (1) reject Bids without checking them for mathematical errors or omissions, (2) reject Bids that contain or appear to contain errors or omissions, and (3) supply corrections to Bids that contain or appear to contain mathematical errors and omissions, and in this case the Port Authority reserves the right to recompute the Estimated Contract Price based upon the Unit Prices inserted by the Bidder which amount shall then govern in all cases.
- e. In the event that a Bidder quotes an amount in the Estimated column but omits to quote a Unit Price for that amount in the space provided, the Port Authority reserves the right to compute and insert the appropriate Unit Price.
- f. The Total Estimated Contract Price is solely for the purpose of facilitating the comparisons of Bids. Compensation shall be in accordance with the section of this Contract entitled "Payment".
- g. The Total Estimated Contract Price shall be obtained by adding the Estimated Annual Contract Price for the first year of the Contract to the Estimated Annual Contract Price for each subsequent year.

**CONTRACTOR'S PRICING SHEET
EXHIBIT "A.1"
PABT FIRE ALARM SYSTEM – CENTRAL STATION MONITORING SERVICES
INCLUDING INSPECTION AND TESTING
YEAR ONE**

Location	Monthly Price*	X	Frequency per Year	=	Estimated Annual Price
PABT North Wing, South Wing, and Vent Building	\$ _____	X	12	=	\$ _____

*Monthly price shall be all-inclusive of labor and materials for central station monitoring services inclusive of inspection and testing. Equipment replaced (if repair/replacement is required and upon approval of the Manager) must be the same make and model or approved equal (as determined by the Manager) to equipment currently installed at the Facility.

A.1 Estimated Annual Price for PABT Fire Alarm Central Station Monitoring Services – Year One

\$ _____
INCLUDE ON LINE (1) EXHIBIT "T"

**CONTRACTOR'S PRICING SHEET
EXHIBIT "B.1"
YEAR ONE**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – EDWARDS SYSTEM**

(Inclusive of programming and graphics for each device listed)

Item of Equipment	Unit Price per Device to Inspect, Maintain, Test and Repair/Replace Per Month**	Estimated Number of Devices*	Frequency Per Year	Estimated Annual Price
3-CPU3: CPU Module	\$ _____	X 13	X 2	= \$ _____(1)
3-LCD:LCD Display Module	\$ _____	X 13	X 2	= \$ _____(2)
3-RS485A: Network Card	\$ _____	X 13	X 2	= \$ _____(3)
3-SSDC-1: Device Driver	\$ _____	X 12	X 2	= \$ _____(4)
3-PPS/M: Power Supply	\$ _____	X 13	X 2	= \$ _____(5)
3-12SG:LED Display/Control Module	\$ _____	X 4	X 2	= \$ _____(6)
3-ZA20B: Zoned Amplifier	\$ _____	X 12	X 2	= \$ _____(7)
SIGA-UIO6R:Universal I/O Motherboard	\$ _____	X 21	X 2	= \$ _____(8)
SIGA-MAB: A/B Module	\$ _____	X 65	X 2	= \$ _____(9)
SIGA-MCC1S:Synchronous Signal Module	\$ _____	X 26	X 2	= \$ _____(10)
SLA1116: 12v 18AH Battery Sealed	\$ _____	X 18	X 2	= \$ _____(11)

**CONTRACTOR'S PRICING SHEET
EXHIBIT "B.1"
YEAR ONE CONTINUED**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – EDWARDS SYSTEM**

Item of Equipment	Unit Price per Device to Inspect, Maintain, Test and Repair/Replace Per Month**	Estimated Number of Devices*	Frequency Per Year	Estimated Annual Price
SLA1156: 12v 34AH Battery Sealed	\$ _____	6	2	\$ _____(12)
SLA1105: 12v 12AH Battery Sealed	\$ _____	2	2	\$ _____(13)
RMS-1T-LP-NY:Manual Pull Station	\$ _____	76	2	\$ _____(14)
SIGA-CT1:Analog Addressable Monitor Module	\$ _____	77	2	\$ _____(15)
SIGA-IM:Isolation Module	\$ _____	65	2	\$ _____(16)
SIGA-CT2:Dual Input Module	\$ _____	5	2	\$ _____(17)
SIGA-CR:Control Module	\$ _____	16	2	\$ _____(18)
SIGA-IPHS: Photoelectric Ionization Smoke Detector w/Heat Element	\$ _____	799	2	\$ _____(19)
SIGA-IB4: Base w/Isolator	\$ _____	363	2	\$ _____(20)
G4RF-S7VM: Speaker/Strobe Unit	\$ _____	72	2	\$ _____(21)
AMT-12/24-R-NYC: Audible Appliance	\$ _____	6	2	\$ _____(22)
Sharpeye20/20I: Flame Detector	\$ _____	1	4	\$ _____(23)
Kirkland GP-3 Graphic Annunciator: XXX-X-GR-GP3	\$ _____	1	2	\$ _____(24)

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PART IV – SIGNATURE SHEET, NAME AND RESIDENCE OF PRINCIPALS SHEET AND PRICING SHEET(S)

Rev. 2/12/10 (PA/PATH)

**CONTRACTOR'S PRICING SHEET
EXHIBIT "B.1"
YEAR ONE CONTINUED**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – EDWARDS SYSTEM**

Item of Equipment	Unit Price per Device to Inspect, Maintain, Test and Repair/Replace Per Month**	Estimated Number of Devices*	Frequency Per Year	Estimated Annual Price
3-ANNCPU1: Annunciator CPU	\$ _____	1	2	\$ _____(25)
3-EVPWRA: Annunciator Power Supply	\$ _____	2 (TBD)	2	\$ _____(26)
3-EVPVRA: Annunciator 24 LED/12 Switch Graphic Driver Module	\$ _____	6	2	\$ _____(27)
VLP-012-00: VESDA Smoke Detector	\$ _____	1	4	\$ _____(28)
VLC-505-00: VESDA Smoke Detector	\$ _____	5	4	\$ _____(29)
VLS-100US-120: VESDA Power Supply	\$ _____	2	2	\$ _____(30)
PT-1S:Remote System Printer	\$ _____	4	2	\$ _____(31)
FIREKEYUSB:Software and Key	\$ _____	4	2	\$ _____(32)
FW-CGSUL:Graphics Software	\$ _____	4	2	\$ _____(33)
FW4UL4:Pentium4 Workstations	\$ _____	4	2	\$ _____(34)
FW-19LCDTS3W: 19" Touchscreen Monitor	\$ _____	4 (TBD)	2	\$ _____(35)

**CONTRACTOR'S PRICING SHEET
EXHIBIT "B.1"
YEAR ONE CONTINUED**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – EDWARDS SYSTEM**

*Estimated number of devices are for estimating purposes only. The Contractor shall verify and perform work on actual quantities in the field.

**Total monthly unit price shall be all-inclusive of labor and materials for inspection, maintenance, testing, and repair/replacement services. Monthly unit price shall also include labor and cost of device(s) if repair/replacement of device(s) is required, and upon approval of the Manager. Equipment replaced must be the same make and model or approved equal (as determined by the Manager) to equipment currently installed at the Facility.

**B.1 Estimated Annual Price for Inspection, Maintenance, Testing, Repairs/Replacement Services of
PABT Fire Alarm Equipment – *Edwards System*- Year One**

\$ _____

(Sum of items (1) through (35) above)

INCLUDE ON LINE (2) EXHIBIT "I"

**CONTRACTOR'S PRICING SHEET
EXHIBIT "C.1"
YEAR ONE**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – SIEMENS MXL SYSTEM**

(Inclusive of programming and graphics for each device listed)

Item of Equipment	Unit Price per Device to Inspect, Maintain, Test and Repair/Replace Per Month**	Estimated Number of Devices*	Frequency Per Year	Estimated Annual Price
Analogue Smoke Detector	\$ _____	304	2	\$ _____(1)
Analogue Duct Detector	\$ _____	169	2	\$ _____(2)
Analogue Manual Pull Station	\$ _____	194	2	\$ _____(3)
Analogue Heat Detectors	\$ _____	13	2	\$ _____(4)
Water Flow Paddle Switches	\$ _____	71	2	\$ _____(5)
Hi/Lo Differential Pressure Switches	\$ _____	100	4	\$ _____(6)
Valve Tamper Switches	\$ _____	115	2	\$ _____(7)
TRI-60D Tenant Dual Input Devices	\$ _____	106	2	\$ _____(8)
TRI-60D Dual Input Devices	\$ _____	196	2	\$ _____(9)
TRI-60S Single Input Device	\$ _____	35	2	\$ _____(10)
TRI-R Shutdown Single Input + Relay	\$ _____	345	2	\$ _____(11)

**CONTRACTOR'S PRICING SHEET
EXHIBIT "C.1"
YEAR ONE CONTINUED**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – SIEMENS MXL SYSTEM**

Item of Equipment	Unit Price per Device to Inspect, Maintain, Test and Repair/Replace Per Month**	Estimated Number of Devices*	Frequency Per Year	Estimated Annual Price
SR-35 8 Relay Board	\$ _____	X 15	X 2	= \$ _____ (12)
MMB-3 Master Mother Board	\$ _____	X 1	X 2	= \$ _____ (13)
MOM-4 Expansion Board	\$ _____	X 27	X 2	= \$ _____ (14)
MKB-1 Keyboard Annunciator	\$ _____	X 14	X 2	= \$ _____ (15)
NST Annunciator Panel	\$ _____	X 17	X 2	= \$ _____ (16)
ALD-21 Analog Loop Board	\$ _____	X 420	X 2	= \$ _____ (17)
CSM-4 Signal Module Strobe	\$ _____	X 48	X 2	= \$ _____ (18)
CSM-4 Signal Module Horn	\$ _____	X 35	X 2	= \$ _____ (19)
ACM-1 Communications Module	\$ _____	X 1	X 2	= \$ _____ (20)
MOI-1 Driver Voice Annunciator	\$ _____	X 1	X 2	= \$ _____ (21)
MOI-1/7 Slave Voice Annunciator	\$ _____	X 2	X 2	= \$ _____ (22)
Warden Phones	\$ _____	X 4	X 2	= \$ _____ (23)
ANN-1 Annunciator Board	\$ _____	X 17	X 2	= \$ _____ (24)

**CONTRACTOR'S PRICING SHEET
EXHIBIT "C.1"
YEAR ONE CONTINUED**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – SIEMENS MXL SYSTEM**

Item of Equipment	Unit Price per Device to Inspect, Maintain, Test and Repair/Replace Per Month**	Estimated Number of Devices*	Frequency Per Year	Estimated Annual Price
Temp Room Temperature Switch	\$ _____	25	4	\$ _____(25)
Tank Water Level Switch	\$ _____	6	4	\$ _____(26)
PSR-1 Power Supply	\$ _____	13	2	\$ _____(27)
Fire Alarm Batteries (12v, 17A) Sealed	\$ _____	30	2	\$ _____(28)
NET-7 Network communications Board	\$ _____	13	2	\$ _____(29)
Break Glass / Purge Key Station	\$ _____	30	2	\$ _____(30)
Smoke Dampers	\$ _____	40	1	\$ _____(31)
Horns / Strobes	\$ _____	350	2	\$ _____(32)
Tenant Sub System Including all attached devices	\$ _____	20	2	\$ _____(33)

*Estimated number of devices are for estimating purposes only. The Contractor shall verify and perform work on actual quantities in the field.

**Total monthly unit price shall be all-inclusive of labor and materials for inspection, maintenance, testing, and repair/replacement services. Monthly unit price shall also include labor and cost of device(s) if repair/replacement of device(s) is required, and upon approval of the Manager. Equipment replaced must be the same make and model or approved equal (as determined by the Manager) to equipment currently installed at the Facility.

C.1 Estimated Annual Price for Inspection, Maintenance, Testing, Repairs/Replacement Services of PABT Fire Alarm Equipment – *Siemens MXL System*- Year One

\$ _____

(Sum of items (1) through (33) above)

INCLUDE ON LINE (3) EXHIBIT “T”

**CONTRACTOR'S PRICING SHEET
EXHIBIT "D.1"
PABT FIRE ALARM EMERGENCY SERVICES LABOR
YEAR ONE**

Labor Rate*	All Inclusive Charge Per Labor-Hour**		Estimated Annual Labor- Hours		Estimated Annual Price
(A) Regular*** Working Hours	\$ _____	X	96	=	\$ _____(1)
(B) Overtime*** Working Hours	\$ _____	X	192	=	\$ _____(2)
(C) Premium*** Overtime Working Hours	\$ _____	X	96	=	\$ _____(3)

*Labor indicated in (A), (B) and (C) is for Emergency Service(s) to be performed as directed and approved by the Manager.

**Charges Per Labor-Hour in Column (2) above are all-inclusive wage rates, which shall include the Contractor's overhead, including tolls, travel time, cost of vehicle use, and profit. Compensation for materials used during emergency service(s) shall be in accordance with the provisions of PART III entitled "Extra Work."

***See clause in PART V entitled "Specific Definitions" for definitions of "Regular Working Hours," "Overtime Working Hours" and "Premium Overtime Working Hours."

D.1 Estimated Annual Price for Emergency Services Labor - Year One

\$ _____

(Sum of items (1) through (3) above)

INCLUDE ON LINE (4) EXHIBIT "I"

**CONTRACTOR'S PRICING SHEET
EXHIBIT "E.1"
SEMI-ANNUAL INSPECTION, MAINTENANCE, AND TESTING SERVICES OF PABT
FM-200 FIRE SUPPRESSION SYSTEMS
YEAR ONE**

FM-200 System Location	Semi-Annual Price*	Frequency Per Year	Estimated Annual Price
South Wing Basement Telephone Room	\$ _____ X	2	= \$ _____ (1)
South Wing 1 st Floor Police Desk	\$ _____ X	2	= \$ _____ (2)
South Wing Second Floor Video Room	\$ _____ X	2	= \$ _____ (3)
South Wing Basement Computer Room	\$ _____ X	2	= \$ _____ (4)
South Wing 1 st Floor Operations Control Center	\$ _____ X	2	= \$ _____ (5)

*Semi-annual price shall be all-inclusive of labor and materials for fire suppression inspection, maintenance and testing services. Equipment replaced (if repair/replacement is required and upon approval of the Manager) must be the same make and model or approved equal (as determined by the Manager) to equipment currently installed at the Facility.

E.1 Estimated Annual Price for Semi-Annual Inspection, Maintenance, and Testing Services of PABT FM-200 Fire Suppression Systems - Year One

\$ _____
(Sum of items (1) through (5) above)
INCLUDE ON LINE (5) EXHIBIT "T"

**CONTRACTOR'S PRICING SHEET
EXHIBIT "F.1"
PABT ON-SITE SERVICE TECHNICIANS
YEAR ONE**

Two (2) On-site Service Technicians	All Inclusive Unit Price Per Day for Two (2) Technicians**		Total Days Per Year		Estimated Annual Price
Regular Working Hours*	\$ _____	X	250	=	\$ _____(1)

On-site Service Technician Additional Hours	All Inclusive Unit Price Per Hour**		Total Estimated Number of Hours Per Year		Estimated Annual Price
Additional Hours* (3:00 p.m. – 5:00 p.m., Monday-Friday)	\$ _____	X	40	=	\$ _____(2)

*See clause in PART V entitled "Specific Definitions" for definition of "Regular Working Hours," and more information on "Additional Hours."

**Charges Per Unit above are all-inclusive wage rates, which shall include the Contractor's overhead, including tolls, travel time, cost of vehicle use, and profit.

F.1 Estimated Annual Price for On-site Service Technicians – Year One

\$ _____
(Sum of items (1) through (2) above)
INCLUDE ON LINE (6) EXHIBIT "F"

**CONTRACTOR'S PRICING SHEET
EXHIBIT "A.2"
PABT FIRE ALARM SYSTEM – CENTRAL STATION MONITORING SERVICES
INCLUDING INSPECTION AND TESTING
YEAR TWO**

Location	Monthly Price*		Frequency per Year		Estimated Annual Price
PABT North Wing, South Wing, and Vent Building	\$ _____	X	12	=	\$ _____

*Monthly price shall be all-inclusive of labor and materials for central station monitoring services inclusive of inspection and testing. Equipment replaced (if repair/replacement is required and upon approval of the Manager) must be the same make and model or approved equal (as determined by the Manager) to equipment currently installed at the Facility.

A.2 Estimated Annual Price for PABT Fire Alarm Central Station Monitoring Services – Year Two

\$ _____
INCLUDE ON LINE (7) EXHIBIT "I"

**CONTRACTOR'S PRICING SHEET
EXHIBIT "B.2"
YEAR TWO**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – EDWARDS SYSTEM**

(Inclusive of programming and graphics for each device listed)

Item of Equipment	Unit Price per Device to Inspect, Maintain, Test and Repair/Replace Per Month**	Estimated Number of Devices*	Frequency Per Year	Estimated Annual Price
3-CPU3: CPU Module	\$ _____	X 13	X 2	= \$ _____(1)
3-LCD:LCD Display Module	\$ _____	X 13	X 2	= \$ _____(2)
3-RS485A: Network Card	\$ _____	X 13	X 2	= \$ _____(3)
3-SSDC-1: Device Driver	\$ _____	X 12	X 2	= \$ _____(4)
3-PPS/M: Power Supply	\$ _____	X 13	X 2	= \$ _____(5)
3-12SG:LED Display/Control Module	\$ _____	X 4	X 2	= \$ _____(6)
3-ZA20B: Zoned Amplifier	\$ _____	X 12	X 2	= \$ _____(7)
SIGA-UIO6R:Universal I/O Motherboard	\$ _____	X 21	X 2	= \$ _____(8)
SIGA-MAB: A/B Module	\$ _____	X 65	X 2	= \$ _____(9)
SIGA-MCC1S:Synchronous Signal Module	\$ _____	X 26	X 2	= \$ _____(10)
SLA1116: 12v 18AH Battery Sealed	\$ _____	X 18	X 2	= \$ _____(11)

**CONTRACTOR'S PRICING SHEET
EXHIBIT "B.2"
YEAR TWO CONTINUED**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – EDWARDS SYSTEM**

Item of Equipment	Unit Price per Device to Inspect, Maintain, Test and Repair/Replace Per Month**		Estimated Number of Devices*		Frequency Per Year		Estimated Annual Price
SLA1156: 12v 34AH Battery Sealed	\$ _____	X	6	X	2	=	\$ _____(12)
SLA1105: 12v 12AH Battery Sealed	\$ _____	X	2	X	2	=	\$ _____(13)
RMS-1T-LP-NY:Manual Pull Station	\$ _____	X	76	X	2	=	\$ _____(14)
SIGA-CT1:Analog Addressable Monitor Module	\$ _____	X	77	X	2	=	\$ _____(15)
SIGA-IM:Isolation Module	\$ _____	X	65	X	2	=	\$ _____(16)
SIGA-CT2:Dual Input Module	\$ _____	X	5	X	2	=	\$ _____(17)
SIGA-CR:Control Module	\$ _____	X	16	X	2	=	\$ _____(18)
SIGA-IPHS: Photoelectric Ionization Smoke Detector w/Heat Element	\$ _____	X	799	X	2	=	\$ _____(19)
SIGA-IB4: Base w/Isolator	\$ _____	X	363	X	2	=	\$ _____(20)
G4RF-S7VM: Speaker/Strobe Unit	\$ _____	X	72	X	2	=	\$ _____(21)
AMT-12/24-R-NYC: Audible Appliance	\$ _____	X	6	X	2	=	\$ _____(22)
Sharpeye20/20I: Flame Detector	\$ _____	X	1	X	4	=	\$ _____(23)
Kirkland GP-3 Graphic Annunciator: XXX-X-GR-GP3	\$ _____	X	1	X	2	=	\$ _____(24)

PART IV - 19

PART IV – SIGNATURE SHEET, NAME AND RESIDENCE OF PRINCIPALS SHEET AND PRICING SHEET(S)

Rev. 2/12/10 (PA/PATH)

**CONTRACTOR'S PRICING SHEET
EXHIBIT "B.2"
YEAR TWO CONTINUED**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – EDWARDS SYSTEM**

Item of Equipment	Unit Price per Device to Inspect, Maintain, Test and Repair/Replace Per Month**		Estimated Number of Devices*		Frequency Per Year		Estimated Annual Price
3-ANNCPU1: Annunciator CPU	\$ _____	X	1	X	2	=	\$ _____(25)
3-EVPWRA: Annunciator Power Supply	\$ _____	X	2 (TBD)	X	2	=	\$ _____(26)
3-EVPVRA: Annunciator 24 LED/12 Switch Graphic Driver Module	\$ _____	X	6	X	2	=	\$ _____(27)
VLP-012-00: VESDA Smoke Detector	\$ _____	X	1	X	4	=	\$ _____(28)
VLC-505-00: VESDA Smoke Detector	\$ _____	X	5	X	4	=	\$ _____(29)
VLS-100US-120: VESDA Power Supply	\$ _____	X	2	X	2	=	\$ _____(30)
PT-1S:Remote System Printer	\$ _____	X	4	X	2	=	\$ _____(31)
FIREKEYUSB:Software and Key	\$ _____	X	4	X	2	=	\$ _____(32)
FW-CGSUL:Graphics Software	\$ _____	X	4	X	2	=	\$ _____(33)
FW4UL4:Pentium4 Workstations	\$ _____	X	4	X	2	=	\$ _____(34)
FW-19LCDTS3W: 19" Touchscreen Monitor	\$ _____	X	4 (TBD)	X	2	=	\$ _____(35)

**CONTRACTOR'S PRICING SHEET
EXHIBIT "B.2"
YEAR TWO CONTINUED**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – EDWARDS SYSTEM**

*Estimated number of devices are for estimating purposes only. The Contractor shall verify and perform work on actual quantities in the field.

**Total monthly unit price shall be all-inclusive of labor and materials for inspection, maintenance, testing, and repair/replacement services. Monthly unit price shall also include labor and cost of device(s) if repair/replacement of device(s) is required, and upon approval of the Manager. Equipment replaced must be the same make and model or approved equal (as determined by the Manager) to equipment currently installed at the Facility.

**B.2 Estimated Annual Price for Inspection, Maintenance, Testing, Repairs/Replacement Services of
PABT Fire Alarm Equipment – *Edwards System*- Year Two**

\$ _____

(Sum of items (1) through (35) above)

INCLUDE ON LINE (8) EXHIBIT "I"

**CONTRACTOR'S PRICING SHEET
EXHIBIT "C.2"
YEAR TWO**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – SIEMENS MXL SYSTEM**

(Inclusive of programming and graphics for each device listed)

Item of Equipment	Unit Price per Device to Inspect, Maintain, Test and Repair/Replace Per Month**	Estimated Number of Devices*	Frequency Per Year	Estimated Annual Price
Analogue Smoke Detector	\$ _____	X 304	X 2	= \$ _____(1)
Analogue Duct Detector	\$ _____	X 169	X 2	= \$ _____(2)
Analogue Manual Pull Station	\$ _____	X 194	X 2	= \$ _____(3)
Analogue Heat Detectors	\$ _____	X 13	X 2	= \$ _____(4)
Water Flow Paddle Switches	\$ _____	X 71	X 2	= \$ _____(5)
Hi/Lo Differential Pressure Switches	\$ _____	X 100	X 4	= \$ _____(6)
Valve Tamper Switches	\$ _____	X 115	X 2	= \$ _____(7)
TRI-60D Tenant Dual Input Devices	\$ _____	X 106	X 2	= \$ _____(8)
TRI-60D Dual Input Devices	\$ _____	X 196	X 2	= \$ _____(9)
TRI-60S Single Input Device	\$ _____	X 35	X 2	= \$ _____(10)
TRI-R Shutdown Single Input + Relay	\$ _____	X 345	X 2	= \$ _____(11)

**CONTRACTOR'S PRICING SHEET
EXHIBIT "C.2"
YEAR TWO CONTINUED**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – SIEMENS MXL SYSTEM**

Item of Equipment	Unit Price per Device to Inspect, Maintain, Test and Repair/Replace Per Month**	Estimated Number of Devices*	Frequency Per Year	Estimated Annual Price
SR-35 8 Relay Board	\$ _____	X 15	X 2	= \$ _____ (12)
MMB-3 Master Mother Board	\$ _____	X 1	X 2	= \$ _____ (13)
MOM-4 Expansion Board	\$ _____	X 27	X 2	= \$ _____ (14)
MKB-1 Keyboard Annunciator	\$ _____	X 14	X 2	= \$ _____ (15)
NST Annunciator Panel	\$ _____	X 17	X 2	= \$ _____ (16)
ALD-21 Analog Loop Board	\$ _____	X 420	X 2	= \$ _____ (17)
CSM-4 Signal Module Strobe	\$ _____	X 48	X 2	= \$ _____ (18)
CSM-4 Signal Module Horn	\$ _____	X 35	X 2	= \$ _____ (19)
ACM-1 Communications Module	\$ _____	X 1	X 2	= \$ _____ (20)
MOI-1 Driver Voice Annunciator	\$ _____	X 1	X 2	= \$ _____ (21)
MOI-1/7 Slave Voice Annunciator	\$ _____	X 2	X 2	= \$ _____ (22)
Warden Phones	\$ _____	X 4	X 2	= \$ _____ (23)
ANN-1 Annunciator Board	\$ _____	X 17	X 2	= \$ _____ (24)

**CONTRACTOR'S PRICING SHEET
EXHIBIT "C.2"
YEAR TWO CONTINUED**

**PABT FIRE ALARM EQUIPMENT – INSPECTION, MAINTENANCE, TESTING AND
REPAIR/REPLACEMENT SERVICES – SIEMENS MXL SYSTEM**

Item of Equipment	Unit Price per Device to Inspect, Maintain, Test and Repair/Replace Per Month**	Estimated Number of Devices*	Frequency Per Year	Estimated Annual Price
Temp Room Temperature Switch	\$ _____	25	4	\$ _____(25)
Tank Water Level Switch	\$ _____	6	4	\$ _____(26)
PSR-1 Power Supply	\$ _____	13	2	\$ _____(27)
Fire Alarm Batteries (12v, 17A) Sealed	\$ _____	30	2	\$ _____(28)
NET-7 Network communications Board	\$ _____	13	2	\$ _____(29)
Break Glass / Purge Key Station	\$ _____	30	2	\$ _____(30)
Smoke Dampers	\$ _____	40	1	\$ _____(31)
Horns / Strobes	\$ _____	350	2	\$ _____(32)
Tenant Sub System Including all attached devices	\$ _____	20	2	\$ _____(33)

*Estimated number of devices are for estimating purposes only. The Contractor shall verify and perform work on actual quantities in the field.

**Total monthly unit price shall be all-inclusive of labor and materials for inspection, maintenance, testing, and repair/replacement services. Monthly unit price shall also include labor and cost of device(s) if repair/replacement of device(s) is required, and upon approval of the Manager. Equipment replaced must be the same make and model or approved equal (as determined by the Manager) to equipment currently installed at the Facility.

C.2 Estimated Annual Price for Inspection, Maintenance, Testing, Repairs/Replacement Services of PABT Fire Alarm Equipment – *Siemens MXL System*- Year Two

\$ _____

(Sum of items (1) through (33) above)

INCLUDE ON LINE (9) EXHIBIT “T”

**CONTRACTOR'S PRICING SHEET
EXHIBIT "D.2"
PABT FIRE ALARM EMERGENCY SERVICES
YEAR TWO**

Labor Rate*	All Inclusive Charge Per Labor-Hour**		Estimated Annual Labor- Hours		Estimated Annual Price
(A) Regular*** Working Hours	\$ _____	X	96	=	\$ _____(1)
(B) Overtime*** Working Hours	\$ _____	X	192	=	\$ _____(2)
(C) Premium*** Overtime Working Hours	\$ _____	X	96	=	\$ _____(3)

*Labor indicated in (A), (B) and (C) is for Emergency Service(s) to be performed as directed and approved by the Manager.

**Charges Per Labor-Hour in Column (2) above are all-inclusive wage rates, which shall include the Contractor's overhead, including tolls, travel time, cost of vehicle use, and profit. Compensation for materials used during emergency service(s) shall be in accordance with the provisions of PART III entitled "Extra Work."

***See clause in PART V entitled "Specific Definitions" for definitions of "Regular Working Hours," "Overtime Working Hours" and "Premium Overtime Working Hours."

D.2 Estimated Annual Price for Emergency Services Labor - Year Two

\$ _____

(Sum of items (1) through (3) above)

INCLUDE ON LINE (10) EXHIBIT "P"

**CONTRACTOR'S PRICING SHEET
EXHIBIT "E.2"
SEMI-ANNUAL INSPECTION, MAINTENANCE, AND TESTING SERVICES OF PABT
FM-200 FIRE SUPPRESSION SYSTEMS
YEAR TWO**

FM-200 System Location	Semi-Annual Price*	Frequency Per Year	Estimated Annual Price
South Wing Basement Telephone Room	\$ _____ X	2	= \$ _____(1)
South Wing 1 st Floor Police Desk	\$ _____ X	2	= \$ _____(2)
South Wing Second Floor Video Room	\$ _____ X	2	= \$ _____(3)
South Wing Basement Computer Room	\$ _____ X	2	= \$ _____(4)
South Wing 1 st Floor Operations Control Center	\$ _____ X	2	= \$ _____(5)

*Semi-annual price shall be all-inclusive of labor and materials for fire suppression inspection, maintenance and testing services. Equipment replaced (if repair/replacement is required and upon approval of the Manager) must be the same make and model or approved equal (as determined by the Manager) to equipment currently installed at the Facility.

E.2 Estimated Annual Price for Semi-Annual Inspection, Maintenance, and Testing Services of PABT FM-200 Fire Suppression Systems - Year Two

\$ _____

(Sum of items (1) through (5) above)

INCLUDE ON LINE (11) EXHIBIT "T"

**CONTRACTOR'S PRICING SHEET
EXHIBIT "F.2"
PABT ON-SITE SERVICE TECHNICIANS
YEAR TWO**

Two (2) On-site Service Technicians	All Inclusive Unit Price Per Day for Two (2) Technicians**		Total Days Per Year		Estimated Annual Price
Regular Working Hours*	\$ _____	X	250	=	\$ _____(1)

On-site Service Technician Additional Hours	All Inclusive Unit Price Per Hour**		Total Estimated Number of Hours Per Year		Estimated Annual Price
Additional Hours* (3:00 p.m. – 5:00 p.m., Monday-Friday)	\$ _____	X	40	=	\$ _____(2)

*See clause in PART V entitled "Specific Definitions" for definition of "Regular Working Hours," and more information on "Additional Hours."

**Charges Per Unit above are all-inclusive wage rates, which shall include the Contractor's overhead, including tolls, travel time, cost of vehicle use, and profit.

F.2 Estimated Annual Price for On-site Service Technicians – Year Two

\$ _____
(Sum of items (1) through (2) above)
INCLUDE ON LINE (12) EXHIBIT "F"

**CONTRACTOR'S PRICING SHEET
EXHIBIT "G"
PABT FIRE ALARM/SUPPRESSION PROJECT WORK**

Bidder shall insert a percentage and this percentage shall be firm for two (2) years of the Contract and any Option Periods thereafter.

Two (2) Year Estimated Amount*	Contractor's Percentage Mark-up/Mark-down	Estimated Total for Two (2) Years
\$100,000	x +/- _____ % = \$ _____ + \$100,000 =	_____

*For details on Project Work requirements, see PART V, "Project Work."

**G. ESTIMATED TWO-YEAR CONTRACT PRICE FOR PABT FIRE
ALARM/SUPPRESSION PROJECT WORK:**

\$ _____

INCLUDE ON LINE (13) EXHIBIT "I"

**CONTRACTOR'S PRICING SHEET
EXHIBIT "H"
PABT AS-BUILT DRAWINGS AND GRAPHICS**

	Estimated Price
Lump Sum Price for Initial Creation of As-Built Drawings and Graphic Computer Revisions	\$ _____(1)
Lump Sum Price for First Year Annual Update of As-Built Drawings and Graphic Computer Revisions	\$ _____(2)
Lump Sum Price for Second Year Annual Update of As-Built Drawings and Graphic Computer Revisions	\$ _____(3)

H. Estimated Two-Year Contract Price for As-Built Drawings and Graphics

\$ _____

(Sum of items (1) through (3) above)

INCLUDE ON LINE (14) EXHIBIT "I"

**CONTRACTOR'S PRICING SHEET
EXHIBIT "I"
PRICING SUMMARY SHEET**

- 1) **Estimated Annual Price for PABT
Fire Alarm Central Station Monitoring Services
Year One** (from Exhibit "A.1") \$ _____

- 2) **Estimated Annual Price for Inspection,
Maintenance, Testing, Repairs/Replacement Services of
PABT Fire Alarm System – *Edwards System* –
Year One** (from Exhibit "B.1") \$ _____

- 3) **Estimated Annual Price for Inspection,
Maintenance, Testing, Repairs/Replacement Services of
PABT Fire Alarm System – *Siemens MXL System* –
Year One** (from Exhibit "C.1") \$ _____

- 4) **Estimated Annual
Price for Emergency Services Labor
Year One** (from Exhibit "D.1") \$ _____

- 5) **Estimated Annual Price for
Semi-Annual Inspection, Maintenance, and Testing
Services of PABT FM-200 Fire Suppression Systems
Year One** (from Exhibit "E.1") \$ _____

- 6) **Estimated Annual
Price for Two On-site Service Technicians
Year One** (from Exhibit "F.1") \$ _____

- 7) **Estimated Annual Price for PABT
Fire Alarm Central Station Monitoring Services
Year Two** (from Exhibit "A.2") \$ _____

- 8) **Estimated Annual Price for Inspection,
Maintenance, Testing, Repairs/Replacement Services of
PABT Fire Alarm System – *Edwards System* –
Year Two** (from Exhibit "B.2") \$ _____

9) Estimated Annual Price for Inspection, Maintenance, Testing, Repairs/Replacement Services of PABT Fire Alarm System – Siemens MXL System – Year Two (from Exhibit “C.2”) \$ _____

10) Estimated Annual Price for Emergency Services Labor Year Two (from Exhibit “D.2”) \$ _____

11) Estimated Annual Price for Semi-Annual Inspection, Maintenance, and Testing Services of PABT FM-200 Fire Suppression Systems Year Two (from Exhibit “E.2”) \$ _____

12) Estimated Annual Price for Two On-site Service Technicians Year Two (from Exhibit “F.2”) \$ _____

13) Estimated Two-Year Contract Price for PABT Fire Alarm/Suppression Project Work (from Exhibit “G”) \$ _____

14) Estimated Two-Year Contract Price for As-Built Drawings and Graphics (from Exhibit “H”) \$ _____

TOTAL ESTIMATED TWO (2) YEAR CONTRACT PRICE
(Total items (1) through (14) above) \$ _____

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PART V – SPECIFICATIONS

1. Specific Definitions

To avoid undue repetition, the following terms, as used in this Contract, shall be construed as follows:

“**Code**” shall mean all applicable New York City local and New York State electrical and fire codes, the National Electric Safety Code (NESC), the National Fire Protection Association codes, and all other codes applicable to the PABT Fire Alarm and Suppression Systems.

“**Contractor**” shall mean a successful bidder who has accepted the Work set forth in the “Work Required by the Specifications” herein and has signed a binding agreement with the Authority.

“**Contractor’s Personnel**” or “**Personnel**” shall mean an employee of the Contractor who has formal training and extensive on-the-job experience, and has achieved competence required to operate equipment and/or machinery and vehicles necessary to perform Work specified herein.

“**Facility**” shall mean the Port Authority Bus Terminal (or “**PABT**”), 625 Eighth Avenue, New York, NY, 10018, including both North and South Wings, and the adjacent Ventilation Building located on the northeast corner of Ninth Avenue and 41st Street.

“**Fire Alarm and Suppression Systems,**” “**Fire Alarm, Fire Detection and Fire Suppression Systems,**” “**System,**” “**Systems,**” or “**Sub-Systems**” shall mean the Siemens MXL and the Edwards Fire Alarm Systems installed at the PABT, and shall collectively include, but not be limited to, all items relating to maintenance, repairs, inspection and testing of the Systems, including smoke detection and all associated wiring, panels, detectors, conduits, computer software, hardware, documentation, peripheral devices, and accessories required for the Systems installed at the Facility. It shall also include all detection, annunciation, initiating and notification devices and interface with the Systems of the PABT. It shall not include any panels or devices installed in tenant areas except for the programming of tenant’s fire alarm panels and their connection to the PABT fire alarm panel(s).

“**Inspector**” shall mean any representative of the Manager designated by him/her as Inspector and acting within the scope of the particular authority vested in him/her.

“**Maintenance**” or words of similar import, as used herein, shall mean the aggregate of the following: periodic inspection and testing, and central station monitoring of the systems as specified herein; replacement (labor and materials by the Contractor) of worn, obsolete, broken, or otherwise unsuitable parts of the systems; but such Maintenance shall not include the furnishing or replacing of any parts or items or equipment that may be required as the result of damage caused by accident or negligence not attributable to employees of the Contractor. Items replaced shall become the property of the Authority.

“Emergency Service” shall be available twenty-four (24) hours a day, seven (7) days a week, at the request of the Manager.

“**Manual**” shall mean the Inspection, Testing and Maintenance Requirements for Fire Protection and Life Safety Systems, issued by the Port Authority Engineering Department and Office of the Chief Operating Officer dated January 2012, inclusive of any revisions made to the manual (<http://www.panynj.gov/about/pdf/ITM-Manual.pdf>). See Attachment “A” for applicable chapters for this Contract.

“**Normal Wear and Tear**” shall mean wear and tear of the parts of the Systems under normal use and do not show signs of misuse, intentional damage or vandalism. Any Systems’ part that the Contractor claims is damaged not due to Normal Wear and Tear should be brought to the notice of the Manager for approval before repair or replacement. Repairs necessitated by reasons other than Normal Wear and Tear shall be considered Extra Work.

“**Notice**” shall mean a written notice.

“**Overtime Working Hours**” as used herein shall mean hours other than Regular Working Hours and eight (8) hours on Saturday, but not Premium Overtime Working Hours.

“**Premium Overtime Working Hours**” as used herein shall mean hours in excess of eight (8) hours on Saturday and all day Sunday and Holidays.

“**Regular Working Hours**” and “**Normal Working Hours**” as used herein shall mean 6:30 a.m. to 3:00 p.m., Monday through Friday, excluding legal Holidays (in the State where the work is to be performed and as defined in the Standard Contract Terms and Conditions), which shall be when inspection, testing, maintenance, and repairs/replacement shall be carried out, except Emergency Service which shall be available twenty-four (24) hours per day, seven (7) days per week, including legal Holidays.

“**Service Technician**” or “**Technician**” shall mean an individual who has formal training and extensive on-the-job experience, has achieved competence in troubleshooting, repair, and Maintenance of fire detection, fire alarm, and/or fire suppression Systems of the type installed in the Facility.

“**Tenant**” shall mean Tenants of the Port Authority of New York and New Jersey at the PABT, both in the North and South Wings of the buildings.

Reference to Work or its performance, “directed,” “required,” “permitted,” “ordered,” “designated,” “prescribed,” and words of similar import shall mean directed, required, permitted, ordered, designated, or prescribed by the Manager; and “approved,” “acceptable,” “satisfactory,” and words of similar import shall mean approved by or acceptable or satisfactory to the Manager; and “necessary,” “reasonable,” “proper,”

“correct,” and words of similar import shall mean necessary, reasonable, proper, or correct in the judgments of the Manager.

2. Work Required by these Specifications

These Specifications relate generally to the performance of inspection, maintenance, testing, and repair/replacement (as directed and approved by the Manager) of the Fire Alarm, Suppression, and Central Station Monitoring Systems installed at the Facility, according to the Manual (see Attachment “A”), Code, manufacturer’s recommendations, and as directed by the Manager.

The Contractor agrees: (a) to inspect, test, maintain, repair or replace under Normal Wear and Tear, all components of the Facility’s Fire Alarm and specified Sub-Systems, and any subsequent upgrades, inclusive of any units added to said Systems for various locations throughout the Facility, whether or not such components are presently in existence, according to the Manual, Code, and as directed by the Manager; (b) to furnish, delete, and/or install additional devices to the Fire Alarm and Sub-Systems as directed in writing by the Manager, including providing technical assistance to others on methods to integrate and program the additional devices on the behalf of the Contractor, Authority, tenants or others doing the installation; (c) to properly and accurately complete the required/applicable maintenance forms (i.e. for inspection and testing) according to the Manual; (d) to provide and maintain complete up to date as-built drawings of the Fire Alarm System initially and continually update as modifications are made; (e) upgrade and maintain the graphical databases and ensure each device is properly depicted geographically on the most recent version of the Facility drawings at all possible levels of zoom; (f) clearly define and continually improve each device descriptor utilizing Facility nomenclature; (g) inspect, test, maintain, repair or replace under Normal Wear and Tear all components of the Fire Suppression Systems including all Sub-System components; (h) to provide central station monitoring services with a New York City-listed and certified central station and to provide all structures, equipment, plant, labor, materials and other facilities and to do all other things necessary or proper therefore or incidental thereto, all in strict accordance with the Specifications and any future changes therein; and the Contractor further agrees to assume and perform all other duties and obligations imposed by this Contract (collectively, the “**Work**”).

During the term of this Contract, it is anticipated that the Edwards System (which is currently in construction) will be activated at the PABT. Once the Edwards System is activated, the Contractor must then perform Maintenance on both the Edwards and existing Siemens Systems under the terms of this Contract.

The Contractor and its Subcontractor(s), as approved by the Manager, shall utilize only Technicians certified by Siemens Building Technologies and Edwards Signaling, as well as Technicians who have all applicable Certificates of Fitness, issued by the New York City Fire Department (FDNY), including, but not limited to, S-95 (Supervision of Fire Alarm Systems and Other Related Systems), S-97 (Fire Alarm Systems Inspection, Testing and Service Technician), and W-26 (Citywide Maintenance of Smoke Detectors), to perform inspections, maintenance, testing and repairs of the Fire Alarm and Suppression Systems at the PABT.

The Contractor (and/or Subcontractor) shall be certified and approved to work on the Siemens Cerberus Pyrotronics MXL and Edwards Fire Alarm Systems, installed at the PABT, and is required to work either directly or through Subcontractors pre-approved by the Manager, provided the Subcontractors meet the same prerequisites as the Contractor, on all components of the Systems and shall use only experienced and qualified Personnel experienced to make any necessary factory-authorized repairs, site-specific software changes, modifications, and upgrades to System components and graphics deemed necessary for the Systems' operations or as directed by the Manager, including the associated initiation and notification devices.

This Contract requires the Contractor to become fully responsible for the Maintenance as specified herein of the Fire Alarm and Suppression Systems, and Central Station Monitoring, including the replacement of parts and all labor required to keep the Systems in good operating condition. The Contractor shall be responsible for all aspects of Maintenance of the Systems from the device(s) up to central monitoring. The Contractor's unit prices in Part IV, Contractor's Pricing Sheets (collectively, Exhibits A.1, A.2, B.1, B.2, C.1, C.2, and E.1, E.2) shall include, but not be limited to, the cost of all labor, parts, supervision, insurance, equipment rental, tolls, travel time, vehicle usage, fuel, profit and all other costs associated with the Work.

The enumeration in this Contract of particular things to be furnished or done at the Contractor's expense, or without cost or expense to the Authority, or without additional compensation to the Contractor shall not be deemed to imply that only things of a nature similar to those enumerated shall be so furnished and done; but the Contractor shall perform all Work as required without other compensation than that specifically provided, whatsoever changes may be made in the Specifications, whatsoever Work may be required in addition to that required by the Specifications in their present form, and whatsoever obstacles or unforeseen conditions may arise or be encountered.

The Specifications require the doing of all things necessary, or proper for, or incidental to, the matter referred to in the immediately preceding paragraphs. In addition, all things not expressly mentioned in these Specifications but involved in carrying out of their intent and in the complete and proper execution of the matter referred to in the immediately preceding paragraph are required by these Specifications, and the Contractor shall perform the same as though they were specifically delineated, described and mentioned

Project Work

For Project Work, the Contractor shall utilize and complete the general information forms contained in the Manual during the two-year base term of the Contract (see Attachment A). General information forms shall be completed in Microsoft Excel format. Compensation for Project Work shall be as inserted by the Contractor in Part IV, Contractor's Pricing Sheet, Exhibit "G." If the Contractor fails to furnish the

Project Work within the time frame stated above, and/or as determined by the Manager, Liquidated Damages shall be imposed in accordance with Part III of this Contract.

3. Personnel Requirements

The Contractor (and any Subcontractor) shall furnish competent and adequately trained Personnel to perform the Work required hereunder. Maintenance shall be performed by competent service Technicians who shall be licensed and certified to work in the State and City of New York as required by law; and qualified to keep the Fire Alarm, detection, Suppression and annunciation Systems in proper operating condition. If, in the opinion of the Manager, any Personnel so assigned is performing the required functions unsatisfactorily, the Contractor shall replace the employee within twenty-four (24) hours following receipt of the Manager's request for such replacement.

Service Technicians providing Maintenance and repairs of Fire Alarms, Fire Detection and Fire Suppression Systems under this agreement shall have successfully completed an industry accredited course covering maintenance and repairs of fire alarm and detection systems and/or fire suppression Systems and must possess a minimum of five (5) years of previous service experience maintaining fire alarms, fire detection and/or fire suppression Systems of similar type and complexity to those covered under this agreement. Additionally, Service Technicians providing installation, Maintenance and repair service to the fire alarm and detection Systems must possess and maintain current manufacturer's certification, training and have continuous technical support for any work on fire alarm hardware, software and components installed throughout the Facility.

The Contractor and its personnel shall adhere to the Authority's safety standards and rules and shall comply with all directives issued in the interest of public safety when so notified by the Manager. The Contractor's personnel shall immediately comply with all directives issued by the Authority's Police officers or Managers. Failure to comply with authorized directives shall cause the Authority to request the removal of Contractor's Personnel who have failed to comply with the directive.

All Contractor's Personnel performing Work required hereunder shall have the ability to communicate in the English language to the extent necessary to comprehend directions given by either the Contractor's supervisory staff or by the Manager's staff.

A. On-site Service Technicians

The Contractor shall provide two (2) Service Technicians at the Facility during Regular Working Hours, to perform the services listed below as a first priority. After the required work has been fulfilled, the Technicians may then be tasked to perform work as required herein for the Maintenance of the Fire Alarm System.

1. Address all outstanding, alarm, supervisory, trouble, or security conditions with the Systems and perform other functions as directed by the Manager. Priority should be given to keep the number of backlogged events

displayed on the annunciators and graphical display to zero (0) when the system is operational and no maintenance work is being performed. Assess outside influences on an immediate prioritized basis in order to determine the severity and cause of malfunctions. Aid facility staff in determining the cause and origin, thereby allowing the Authority to clearly identify tampering or unauthorized work on the Systems. Provide labor to correct and repair acts of vandalism misuse and abuse as defined under Emergency Service.

2. Provide consultation as needed for system technical issues, which may arise due to ongoing construction activities. Aid facility staff in the proper handling of disarms and re-arms so that construction work does not harm the Systems, while construction or maintenance work is being performed. The Technicians shall be thoroughly familiar with the design criteria of the existing system and be an available resource to the Authority personnel at the Facility.
3. At the direction of the Manager, provide guidance to the numerous tenants in the Facility who may notify the Authority of work on their sub-systems or perform work in their leased spaces. Be an available resource when tenants are modifying or rearranging equipment.
4. Provide assistance to consulting engineers with tie-in questions and modifications to the system. Continuously provide input to ensure that the work is designed properly and with the adequate level of system design understanding based upon the existing system design criteria.
5. Provide continuously updated graphics, packages, and imported custom CAD files of the Facility drawings that reflect the building architectural features in sufficient detail. Update the base graphics and device custom messages as required (nomenclature, physical layout and unique instructions of the building) to reflect the physical characteristics of the structure including all structural modifications or alterations, such as, column lines, tenant names or instructions. Add additional layers of zoom to clearly define each device's actual location. Continue using the established format of the device designations with the approval of the Manager.

The Contractor's on-site Service Technicians assigned shall be available to work up to an additional two (2) hours (between the hours of 3:00 p.m. and 5:00 p.m., Monday through Friday) at the request of the Manager and without advance notice.

The Contractor shall supply the on-site Service Technicians with a Verizon cell phone with push-to-talk (PTT) capability, with batteries and battery recharging unit, which the Contractor shall maintain for the duration of the Contract, for instant communication with PABT personnel. The Technicians shall carry/wear the Facility-provided radio at all times while at the Facility. Communications devices supplied by the Authority shall also be used to respond to Authority staff only; they shall not be used as general communications among the Contractor's staff.

B. Personnel Uniforms and Identification (ID) Badges

The Contractor shall provide its Personnel all necessary distinctive uniforms with woven company logo or identification insignia with the Contractor's name of a type, style and color, which shall be subject to the prior and continuing approval of the Manager. Personnel shall wear these uniforms at all times when performing work under this Contract. A company issued photo identification badge and a Facility-specific ID card shall be worn in a conspicuous and clearly visible position by all Personnel whenever engaged in Work under this Contract. Personnel without proper identification or uniforms shall not be permitted to work. The Contractor shall also be responsible to ensure that its Personnel are wearing proper protective gear including footwear, for the task being performed.

In addition to requiring ID badges for all Personnel, the Personnel shall undergo the Secure Worker Access Consortium (SWAC) security screening process prior to the start of Work. The Contractor shall be responsible for all costs associated with ensuring that all Personnel satisfies SWAC requirements.

The Contractor shall submit to the Authority as a minimum the names and home addresses of Personnel who will perform Work under this Contract. No Personnel will be permitted to work under this Contract without approval of the Manager.

The Manager shall have the right to require removal of any Personnel who shall fail to wear the proper uniform, safety gear and identification. The exercise of this right shall not limit the obligations of the Contractor to perform the Work.

C. Transportation for Contractor's Personnel

The Contractor shall provide for the legal (i.e. per the New York State Department of Motor Vehicles) transportation of its Personnel, materials and equipment to the Sites of Work at the Facility.

All Contractor's vehicles operated at the Facility in connection with this Contract shall be permanently marked on both sides of the vehicle on the driver and passenger doors with the Contractor's name, address and telephone number in contrasting lettering having a minimum dimension of 3" high with 1/2" thick lines. Magnetic signs are not acceptable. The Authority will not furnish free facility use parking passes or privileged parking in any garage or roadway on facility property. All vehicles must be properly placarded with the Contractor's name when parked or driven in non-public areas of the buildings.

The Contractor shall comply with Port Authority rules, regulations, and such procedures as are now in force and such reasonable future rules, regulations the Authority may hereafter adopt for safe operation of motor vehicles at the Facility.

4. Scheduling of Work

Unless mutually beneficial to the Authority, the Contractor shall, during the term of this Contract, schedule all regular Maintenance, testing, and repair work, as defined in these Specifications, to be performed between the hours of 6:30 a.m. and 3:00 p.m.,

Monday through Friday, excluding Holidays. Any work of the Contract that is not deemed as Extra Work or Emergency Service that the Contractor wishes to perform outside Normal Working Hours shall be first be approved by the Manager. The Contractor shall submit to the Manager a written report of all scheduled Work on an annual basis and any changes in the scheduling it contemplates making during the course of any three (3) month period. The report shall include the Work scheduled by the Contractor to be accomplished during said three (3) month period, the dates and time of day when such Work will be done, the number of Personnel to be assigned to each shift, and such other information as the Authority may from time to time require, and shall be subject to the continuing approval of the Manager. The annual schedule and first such report covering the first three (3) months of this Contract shall be submitted by the Contractor within ten (10) days prior to the commencement of Work and each subsequent three (3) month report shall be submitted by the Contractor at least twenty (20) days prior to the commencement of each three (3) month period. No changes shall be made without the prior approval of the Manager.

5. Replacement of Materials and Parts

- A. All parts that fail under Normal Wear and Tear shall be reflected in Part IV, Contractor's Pricing Sheets (Exhibits A, B, C and E) replaced at no additional cost to the Authority. The Contractor shall maintain, for the term of the Contract, and have quick access to, in the New York-New Jersey Metropolitan Area, a sufficient supply of Original Equipment Manufacturer (OEM) spare parts and materials, tools or other equipment as may be necessary to make replacements and repairs immediately, without delay, in order to keep the Fire Alarm Systems operational, twenty-four (24) hours a day, seven (7) days a week. For equipment with estimated quantities of six (6) devices or more, a minimum of six (6) of each type of device shall be kept on site. For equipment with estimated quantities of less than six (6) devices, at least one (1) spare shall be kept on-site. All other materials shall be available within twenty-four (24) hours. The Contractor shall immediately notify the Manager if any component becomes obsolete or requires a significant lead-time for replacement. Delay in obtaining material shall not be a reason for failure to make repairs in a timely manner.

- B. If a part fails, not due to: 1) the negligence of the Contractor or 2) Normal Wear and Tear, the Contractor shall prove such failure to the Manager. Repairs/replacements of such a nature shall be deemed Extra Work as defined in Part III of this Contract. When it is necessary for the Contractor to replace/install any item of material or parts during the performance of Extra Work under this Contract, the Contractor shall first submit to the Manager, for the Manager's approval, the name of the item, the proposed supplier and the proposed purchase or, if supplied by the Contractor, the price that the Authority is to be billed. The Manager shall have the option of a) approving same, or b) supplying said material to the Contractor itself provided it is of equal quality to that proposed by the Contractor.

6. High Security Areas

Work under this Contract may be required in high security areas as such may be designated in writing, at any time, by the Manager. The Authority will require observance of certain security procedures with respect to the performance of such Work, which procedures may include surveillance or the escort to and/or from such high security areas for Personnel working therein.

The Contractor shall notify the Manager at least forty-eight (48) business hours prior to undertaking the performance of any Work in a high security area. The Contractor shall further conform to such procedures, which may at any time, be established by the Manager regarding access to such areas or the escorting of Personnel. Prior to the start of Work under this Contract, the Contractor shall obtain from the Manager a list of those areas currently designated as high security areas. This list is subject, at any time, to revision by the Manager and the Contractor shall be responsible for obtaining all such revisions.

7. Breakdown, Malfunction or Damage

Immediately upon the Contractor's discovery of any software or hardware anomaly, damage or signs of disrepair to, corrosion, mechanical breakdown or malfunction of, or cracks or breaks in any item to be repaired hereunder, the Contractor shall advise the Manager and also take the necessary actions to protect the integrity of the System and shall make all attempts to reduce the potential loss of life or property.

8. Emergency Service

The Contractor shall furnish Emergency Service within one (1) hour after the Manager's request unless otherwise directed by the Manager. Emergency Service shall be available twenty-four (24) hours a day, seven (7) days per week, including holidays. All malfunctions or inefficient or improper operation of the equipment shall be investigated by the Contractor and the cause thereof forthwith repaired, removed, adjusted or otherwise attended to, so that the System or equipment is restored to proper operation at the earliest possible time.

The Contractor's on-site Service Technicians performing Work during Regular Working Hours shall make all necessary adjustments and repairs of malfunctions reported by the Manager during Normal Working Hours. If the adjustment or repair cannot be accomplished by the on-site Service Technicians before the end of Normal Working Hours or requires additional Personnel, the Contractor's Personnel shall contact the Manager who may direct that the work be continued at that time or shall be performed at a later date. The Contractor shall be compensated for the labor incurred beyond Normal Working Hours, as applicable, at the rate set forth in the Contractor's Pricing Sheets, however, no payment shall be made for repair work that, in the opinion of the Manager, is necessitated by either (1) the Contractor's improper or incomplete performance of the Maintenance which is to be performed hereunder or (2) due to non-verifiable actions of vandalism, misuse or abuse.

Compensation for hourly wages for Emergency Service due to verifiable, vandalism, misuse or abuse beyond the Contractor's control shall be computed utilizing the prices set forth in the Contractor's Pricing Sheets, Exhibit "D." Compensation for

providing materials and items under Emergency Service shall be computed as defined in the clause in Part III entitled “**Extra Work.**”

The Contractor shall provide the Manager with a listing of alternate telephone numbers listed in order of priority to ensure definite contact when service is needed under Emergency Service. Any change in the emergency telephone numbers shall be given to the Manager verbally and in writing, and posted at the Fire Command at least ten (10) days prior to the date such change will take effect.

9. Call-back Services

Call-back Services shall consist of all non-scheduled repairs and maintenance, which are necessary when, in the opinion of the Manager, the Maintenance to be provided hereunder has not been performed in accordance with the requirements of this Contract. No payment shall be made for Work that, in the opinion of the Manager, is necessitated by the Contractor’s improper or incomplete performance of the Maintenance. In providing Call-back Services, the Contractor shall provide qualified Personnel to perform the Work required. Such services shall be performed within four (4) hours of the Manager’s request. If the Contractor fails to furnish Call-back Services within four (4) hours after the request, Liquidated Damages shall be imposed in accordance with Part III of this Contract.

10. Central Station Monitoring

The Facility will provide and maintain two (2) telephone POTS (Plain Old Telephone Service) lines for connection to the digital communicators (one primary, one backup) for central station monitoring. The Contractor will program the Fire Alarm Systems to monitor the condition of the lines.

Each month, the Contractor shall provide the Manager with a printout of all alarms transmitted from the Fire Command and received at the Central Station.

Alarm Procedure

Upon receipt of a fire alarm, the Central Station personnel shall immediately notify in succession, (1) the Fire Department of New York (FDNY), (2) the Facility Watch Engineer at (212) 502-2255, (3) the Operations Control Center at (212) 502-2245, and/or (4) responsible parties as designated by the Authority. The list of names and phone numbers shall be confirmed and updated periodically by the Manager.

In the case of false alarms received, the Contractor will immediately investigate and report to the Manager the cause of such false alarms. Repair or adjustments required shall be made to the systems at no additional cost to the Authority. Compensation for such repairs shall be included in the monthly price for Central Station monitoring services (See Part IV, Contractor’s Pricing Sheets, Exhibits A.1 and A.2).

The Contractor shall also be responsible for connections to provide monitoring of all PABT fire alarm sub-panels for Alarm, Trouble and Supervisory (ATS) (where applicable) conditions. All wiring must be properly supervised to the point of demarcation at the sub-panel and report to Central Station through the System.

11. Devices (Inventory)

Currently there are a total of eight (8) Fire Command Stations, approximately twenty-four (24) Network System Terminal (NST) Cabinets and several thousand field devices at the Facility. The Contractor shall verify actual quantities in the field and shall review the latest printout of devices.

12. Technical Specifications and Standards for Fire Alarm Systems

A. General Description

This section specifies all Fire Alarm System maintenance under this Contract. The Systems specified herein are to be provided with periodic inspections, tests, maintenance, and operation verification. The Fire Alarm System shall include, but not be limited to, all databases, programming, software, hardware and components, graphical terminals, and all field devices such as area and duct detectors, aspiration systems, manual pull stations, input/output (I/O) devices, audible and visual output devices, speakers, waterflow alarm devices, tamper/supervisory devices, warden telephones, pressure switches, power supplies, shutdown relays, dampers, suppression and Sub-Systems.

B. Codes and Standards

Any electrical and Fire Alarm System installation shall conform to all the latest revisions of the Manual, the National Electric Code (NEC), the National Electric Safety Code (NESC), the National Fire Protection Association Codes (NFPA), the Insurance Service Organization (ISO), the American Society of Mechanical Engineers (ASME) A17.1, and local codes at a minimum which would be applicable if the Authority were a private corporation (collectively, “**Codes**”).

1. In case of conflict between provisions of Codes, laws, ordinances, etc., the more stringent requirements shall apply.
2. Installations shall comply with the requirements of the New York City Local Laws and amendments.
3. UL Labels - All electrical or mechanical materials and equipment for which there are established Underwriters Laboratories (UL) standards shall bear the UL label for the application.
4. Standards Publications - Standards Publications of technical organizations and regulatory agencies are referenced below, and unless stricter requirements are indicated, materials and equipment so specified shall be manufactured, tested and installed to conform, as minimum, to the requirements of such reference standards and publications. The following list of organizations (with their identifying initials) involved in electrical standards is not intended to be all-inclusive (the “**Standards**”):
 - i. American National Standards Institute- ANSI
 - ii. American Society for Testing and Materials- ASTM
 - iii. Institute of Electrical and Electronics Engineers- IEEE
 - iv. Insulated Power Cable Engineers Association-IPCEA
 - v. International Municipal Signal Association- IMSA
 - vi. Joint Industrial Council –JIC

- vii. National Electrical Manufacturers Association- NEMA
- viii. National Fire Protection Association- NFPA
- ix. Underwriters Laboratories- UL

C. Material Delivery, Storage and Handling

1. Deliver new or remanufactured material in manufacturer's original unopened protective packaging.
2. Store and date materials in original packaging in a manner to prevent soiling, physical damage, static charge, wetting or corrosion prior to installation.
3. Handle in a manner to prevent damage to finished surfaces or components.
4. Where possible, maintain protective coverings until installation is complete and remove such covers as part of final clean-up.
5. Touch-up any damage to finishes to match adjacent surfaces to satisfaction of the Manager.

D. Dissimilar Metals

Dissimilar metals as used herein shall be those that are incompatible in the presence of moisture, as determined from their position in the electrochemical series or from test data. Where dissimilar metals come in contact, paint the joint both inside and out with paint approved for this purpose, so as to exclude moisture from the joint, or provide a suitable barrier separating the metals. Transitions in conduit from one metal to a dissimilar metal shall only be made at boxes with approved fittings or other enclosures except where otherwise specified herein.

E. Fasteners

Provide inserts, expansion shield lugs, anchors, bolts with nuts and washers, shims or any other type of fastening devices required to fasten panels or other equipment to foundations, floors, walls or ceilings. Unless otherwise specified herein, all fasteners shall be stainless steel or hot-dipped galvanized and of sizes and types recommended by the equipment manufacturer and as approved by the Manager. Epoxy or chemical anchor systems shall not be used in the horizontal concrete slabs in any part of the facility. All fastening systems shall be chosen for compliance with seismic specifications.

F. Fire Alarm Cables

Wiring for the Fire Alarm and Supervisory systems shall be type FPLP-UL (fire alarm approved cable), twisted pair solid copper, 200° C, 600V, shielded (or unshielded as required), insulated conductors, with FEP insulation and conductors colored black and red with an outer jacket red in color. All wiring, raceways fittings, connectors and enclosures shall be UL listed for the intended use.

Conductor terminations shall be by approved methods as indicated by the manufacturer and as determined by the Manager.

G. Boxes and conduits

The cover of boxes for junctions, pulls, condulets, components and splices and all exposed conduit containing conductors of the System up to eight (8) feet from the finished floor shall be painted fire department red to indicate fire alarm equipment is housed within.

H. Coded Indexes

Near each manual pull station shall be a list of all coded signals for all Fire Alarm devices within the Facility complex. The list shall be located in an approved type frame matching the existing style and configuration with an ultraviolet rated transparent waterproof covering or coating. All existing indexes shall be corrected to the extent necessary when additional uniquely coded devices are added. Where coded indexes are damaged or missing, they shall be replaced immediately at no extra charge.

I. Test notice for Periodic Testing in Tenant Spaces

The Manager will furnish to the Contractor a list of names and phone numbers of people who shall be notified prior to commencing a test in any tenant-occupied area. It will be the Contractor's responsibility to notify tenants or others as directed from time to time prior to commencing any tests. The Contractor shall give forty-eight (48) business hours notice to the Facility before planning to commence testing and a facility representative may be assigned to accompany the Contractor during such tests. The Contractor shall give forty-eight (48) business hours notice to the Facility prior to making any repairs.

J. Inspection Forms

Documentation of the Maintenance activities shall comply with all provisions and sub-sections of the Manual and NFPA 25 and 72 of National Fire Alarm Code at the frequencies specified. Sample Inspection and Testing forms may be found in the Manual attached herein (see Attachment "A"). The Contractor shall keep all complete forms on file on behalf of the Facility as required by the Manual, NFPA 25 & 72, and as determined by the Manager.

K. Acceptance Tests

The Contractor shall perform acceptance tests for existing and future units of Fire Alarm equipment put into service to demonstrate to the Manager the reliability of all Fire Alarm System equipment according to the Codes and Standards identified in Section 12.B above. Tests shall demonstrate that the appropriate signals are transmitted by the various Sub-Systems and devices to the Fire Command and subsequently the Central Station. The acceptance tests shall include, as a minimum, all the tests required under these Specifications.

All labor and materials required for the above tests shall be furnished by the Contractor at his own expense, except for utilities, which will be furnished by the Authority.

Should the foregoing tests for new installations reveal defects in existing equipment or materials owned by the Authority, the Contractor shall report this condition to the Manager. Upon completion of each acceptance test, the Contractor will be issued a certificate of acceptance for the tested units and the Contractor's obligation to perform maintenance and supervision will commence upon issuance of such certificate. The Contractor shall list each device tested during the acceptance tests in the Manual as to type and location and shall use this list as a log of equipment, which must be tested and maintained. The Contractor is to provide a printout of alarm tests and signals received at the Fire Command and Central Station.

13. Inspections, Maintenance, Testing and Repairs of the Fire Alarm Systems

During the performance of Work according to the Manual (see Attachment "A"), the Contractor shall also perform the following Facility site-specific tasks for the Fire Alarm Systems. The Authority shall be advised before initiation of and completion of all inspections and tests. The Contractor shall schedule its work in such a manner that minimizes the interruption of the Systems. All required forms shall be attached to service tickets (generated by the Contractor) for the work performed.

All equipment required to be tested or inspected monthly shall be tested at intervals not less than twenty-five (25) days and not more than thirty-five (35) days. Equipment required to be tested or inspected quarterly shall be tested at intervals not less than two (2) months and not more than four (4) months. Equipment required to be tested or inspected semi-annually shall be tested at intervals not less than five (5) months and not more than seven (7) months.

The Contractor shall keep all entrances and exits accessible to use at all times, all to the best interest of the Authority and others as directed by the Manager.

General Instructions applicable to all testing (For all Monthly, Quarterly and Semi-Annual Tests)

1. Ensure all updated as-built drawings and manufacturer's catalogue cuts are available on site for review at all times.
2. Notify the Maintenance Supervisor and Watch Engineer before starting each inspection. This includes making necessary arrangements for sounding of horns, bells, and the shutdown of affected equipment, etc.
3. Verify device tested is properly landed geographically on each level of zoom on the graphical computers and described in the facility specific format on all three lines of text of the custom messages. Add subsequent levels of graphics and or custom messages if necessary in the Facility-required format, as directed by the Manager.
4. Provide the Manager, at the start of the contract and at the last month of each calendar year, a schedule of testing that will include a projection of work in a Calendar format when each individual device will be tested in the following year.

5. Notify the Maintenance Supervisor and Watch Engineer of completion of each inspection and document and verify proper receipt of signals at the Central Station on the required forms.

A. Manual Pull Stations

Semi-Annual Inspections

1. Inspect and test a comparative portion of devices on each loop circuit to allow all devices to be tested within the code-required frequencies.
2. Ensure that double acting pull station guards and NYC code-mandated Central Station insignias are in place. Repair or replace immediately.
3. Check that station horn code placard is in place and contains the latest version showing all unique pull station, waterflow and smoke pulsed codes.
4. Check that station is properly enumerated and the correct code is attached to the pull station and all instructions are legible and station is clean.

Annual Testing

1. Complete full fire signal test on each manual fire alarm station. Allow code to activate horn strobe circuits at least one (1) round to verify coding.
2. Check manual fire alarm stations and boxes for signs of, corrosion, moisture, damage or loose terminal connections. Only torque where necessary, wipe clean, lubricate and repair as required.
3. Repaint manual fire alarm stations, and all exposed conduit up to eight (8) feet vertically as necessary, and check for proper operation after repainting.

B. Air Duct Detectors

Semi-Annual Inspections

1. Inspect and test a comparative portion of devices on each loop circuit to allow all devices to be tested within the code-required frequencies. Ensure local device indicator LED functions properly.
2. Clean air inlet sampling holes or duct-mounted smoke detector tubes to ensure there is no clogging by dirt or dust.
3. Verify proper fan shut down and reset.
4. Disconnect air duct detector and verify trouble indication at the Fire Command Stations.
5. Check that detector is properly enumerated and device code is attached to the detector and all instructions are legible.

Annual Testing

1. Check and record sensitivity of all detectors and adjust if necessary.

2. Remove or visually check sampling tube is properly installed in the duct and air chambers seals are functioning properly.
3. Vacuum each smoke detector chamber and all tubes.
4. Complete a test on each detector program. Allow code to activate local horn strobe circuits at least one (1) round to verify coding

C. Smoke Detectors

Semi-Annual Inspections

1. Inspect and test operation of smoke detectors. Ensure local indicator LED functions.
2. Inspect and test a comparative portion of devices on each loop circuit to allow all devices to be tested within the code-required frequencies.
3. Verify proper program sequence and any shut downs or recalls and reset.
4. Disconnect detector and verify trouble indicator at control panel.
5. Check that detector is properly enumerated and proper code is attached to the device and all instructions are legible.

Annual Testing

1. Check and record sensitivity of all detectors and adjust if necessary.
2. Remove or visually check air chambers are clear and wiring and components are free of corrosion.
3. Thoroughly clean and vacuum each smoke detector chamber and base.
4. Complete a test on each detector program. Allow code to activate local horn strobe circuits at least one (1) round to verify coding.

D. Thermal Detectors

Semi-Annual Inspections

1. Inspect and test operation of thermal detectors. Ensure local indicator LED functions.
2. Inspect and test a comparative portion of devices on each loop circuit to allow all devices to be tested within the code-required frequencies.
3. Verify proper program sequence and any shut downs or recalls and reset.
4. Disconnect detector and verify trouble indicator at control panel.
5. Check that detector is properly enumerated and proper code is attached to the device and all instructions are legible.
6. Ensure that device has not been painted and instructions and warnings are legible.

E. Sprinkler and Waterflow – “Alarms”, Valve Tamper – “Supervisory”, Device – “Trouble” and “Security” signals

Quarterly Inspections

1. In conjunction with facility staff where necessary, perform operational tests of each flow device through the use of the test connection.
2. Perform inspection and tests of all Supervisory (Tamper) devices. Do not impair fire protection equipment without facility staff present to operate systems.
3. Inspect and test a comparative portion of devices on each loop circuit to allow all devices to be tested within the code-required frequencies.
4. Perform an open circuit and ground test on each device to ensure proper wire supervision.
5. Provide a printout of systems tested and signals received at the Fire Command and Central Station along with each service ticket.
6. Open sprinkler, test drain and run waterflow device before opening or disturbing, devices, cabinets etc. All waterflow testing is to be conducted with the Facility Watch Engineer and other personnel as directed by the Manager. Obtain authorization from the Authority’s Watch Engineer prior to working on any sprinkler or standpipe system.
7. Visually check system air and water pressures and supply water pressure gauges of the sprinkler systems against posted pressure parameters, prior to and subsequent of any waterflow tests.
8. Conduct waterflow tests as follows:
 - a) Make flow tests from the inspector’s test connection for each wet sprinkler system, first ensuring that the discharge from the valve will not cause property damage or personal injury.
 - b) On dry systems, make waterflow tests from the inspectors test valve located in the piping connected at a point below the dry pipe alarm valve and running to the detection device.
 - c) Open waterflow detection devices and examine for leakage, corrosion, binding action and loose wiring connections.
 - d) Ensure that the waterflow devices operate horns and strobes and provide the correct code.

Semi-Annual Testing

1. Test all gate valve supervisory (tamper) devices and associated supervisory circuits.
2. Examine and clean restrictions, piping and strainers used with pressure-actuated devices on supervisory devices.
3. Check operational settings of pressure actuated devices such as fire pumps and gravity tanks.

4. Ensure all devices are labeled. Make visual inspection of condition of other equipment, conduit, wiring, etc.
5. Notify the Watch Engineer that tests have been completed and proper signals were received.
6. Notify the Authority Maintenance Supervisor that tests have been completed and advise of any non-contractual items that need correction.
7. The Contractor shall repair any inoperative devices and clear up any circuit faults before leaving the premises.
8. Complete a test on each waterflow device program. Allow code to activate local horn strobe circuits at least one (1) round to verify coding.
9. Once a year check the sensitivity of the retard on all vane-type waterflow devices.

F. Terminal Relay Interfaces, Terminal Relay Inputs, Terminal Relay Outputs and Purge Key stations

Semi-Annual Inspections

1. Perform all tests in conjunction with any device(s) attached to the Interface.
2. Inspect and test a comparative portion of devices on each primary loop circuit to allow all Interfaces to be tested within the code-required frequencies.
3. Ensure all devices are properly labeled. Make visual inspection of condition of other associated equipment, conduit, wiring, etc
4. Test primary and secondary supervisory circuits to ensure trouble indication is received at the Fire Command.
5. Toggle each relay, LED, input or output and check each program, graphic and custom message associated with the interface unit to ensure proper functionality and operation.
6. Check software and program function to ensure proper operation.
7. Lubricate keyway, exercise switch and inspect internal components of purge stations.

G. Audible and Visual Devices

Annual Testing

1. Test horn and strobe circuits for trouble and alarm conditions.
2. Inspect and test a portion of the horn strobe devices on each circuit to allow all devices to be tested within the code-required frequencies.
3. Inspect boxes and correct any wiring or splice deficiencies.
4. Verify operation of all audible and visual alarm devices.
5. Clean devices as required for maximum-required visual and audible output.

6. Ensure all exposed conduit and boxes below eight (8) feet are painted red. Touch up as needed.

H. Graphical Monitors, Master Module Board (MMB), Network System Terminals (NST), Network Terminal Cabinets (NTC), and Digital Communicators

Monthly Inspections

1. Ensure cabinet wiring diagrams are attached to interior door and are kept current.
2. Check for proper operation of Annunciator, Modules, Network, and Central Station Equipment.
3. Check circuit boards and terminal connections to ensure tightness. Only torque where necessary.
4. Check indicators and re-lamp or replace boards or indicators as necessary.
5. Check power supplies and batteries for proper voltage and condition. Replace any battery with visual signs of corrosion, deformation, leakage or terminal voltage less than 85% rating.
6. Vacuum clean cabinet interior and lubricate and test locking devices. Inspect conduits, hubs, door seals and wiring for corrosion or overheating.

I. Subpanels; South Wing Computer Room, Telephone Switch Room, Main Floor Police Desk, Second Floor Video Room.

Semi-Annual Inspections

1. Test all subpanel interface wiring for trouble and alarm receipt at Fire Command and Central Station. All primary and secondary interface wiring is to be supervised.
2. Perform test of each device of the Sub-System components as stipulated in "A" through "F" above.
3. Ensure all subpanels have operator instructions and a line diagram listing all primary components and devices in the Sub-System clearly visible in or near each panel in a laminated frame.

14. Inspections, Maintenance, Testing and Repairs of the Fire Suppression Systems

Labor required for recharging discharge cylinders and for pressure testing discharge cylinders shall be included in the price inserted by the Contractor on Exhibit "E" of the Contractor's Pricing Sheets. Repairs and cylinder testing necessitated by reason of negligence or misuse of the equipment beyond the control of the Contractor, but not labor required as a result of ordinary wear and tear, shall be considered Extra Work as defined in Part III.

The normal periodic inspection and maintenance services include semi-annual routines. These service routines shall conform, as a minimum, to the recommended

service routines outlined in the Manual, NFPA Standards, and listed in the latest manufacturer's service manuals.

The semi-annual service routines shall be performed during the spring and fall in each Calendar year or as otherwise directed by the Manager. The Contractor shall give the Manager forty-eight (48) hours advance notice of the dates to perform these service routines.

The semi-annual service routine of the Systems include, but is not limited to, the following:

- A. A walkthrough inspection of all System components, checking for obvious damage.
- B. Place System switch in "Battery Test" position, activate one (1) detector and operate for at least fifteen (15) minutes. Reset System and return switch to normal operation. Check high trickle battery charging rate.
- C. Check pressure of all chemical agents and pilot gas cylinders, and record the pressure on a log to be affixed to the cylinder by the Contractor.
- D. Check all alarm signals at associated alarm panels.
- E. For the Fire Detection Sub-System:
 1. Visually inspect all smoke detector heads and remove loose dust accumulation with manufacturer's approved methods as stated in the Manual.
 2. Activate alarm, smoke, or high temperature detectors, resetting the system after each alarm, and check all proper and correct signals were received, including signals at associated central fire alarm panels (where applicable).
 3. Check the supervisory circuit and associated signals by purposely placing each component in a trouble condition.
- F. Take voltage reading, check water levels, and clean casings and housings of all System batteries.
- G. Remove from the System and weigh each chemical agent cylinder. Weight shall be recorded on each cylinder log.
- H. Inspect the electrical system and other mechanical parts. Test the electrical system for continuity and voltage.
- I. Relamp System lamps as necessary.
- J. Reset the System immediately following the completion of the inspection.
- K. Check the sensitivity of each detector with the type of equipment recommended by the detector manufacturer.
- L. Activate every detector without causing agent discharge. Check that all proper single and/or dual indications and alarms are given and all subsequent operations including release mechanisms and interlocks with other Systems and equipment function properly. For the chemical agent system, a complete sequence of operation test of all alarm devices, shutdown functions, remote signaling time delay, and simulated agent discharge for each zone or system shall be performed to verify operation.
- M. Activate manual-electric control and check for proper operations and response.

- N. Check expiration date of trigger mechanisms and replace at intervals in accordance with manufacturer's recommendations.
- O. Check the specific gravity of all Systems' batteries.
- P. Operate each pressure switch and check alarms.
- Q. Inspect all cylinders, cylinder racks, piping and pipe hangers and straps for satisfactory condition and proper support.
- R. Check the operation of the pressure switch and related signals.
- S. Inspect all discharge nozzles for proper position, alignment and clear unobstructed orifices.
- T. Test each circuit for trouble by indicating a trouble condition to the system including simulated depressurizing of the container to test pressure supervision circuit to ensure proper wiring.

It is anticipated that additional Fire Suppression Systems and panels will be installed prior to the termination of this Contract. Such additions shall become the responsibility of the Contractor at the request of the Manager. Compensation for such additions shall be as defined in the clause entitled "Increase and Decrease in Areas or Frequencies," and shall be based upon the unit prices inserted by the Contractor in Exhibit "E."

15. As-Built Drawings

The Contractor shall produce accurate and complete as-built schematic and one-line drawings of the existing Fire Alarm System at the beginning of this Contract and each subsequent year. As-Built drawings shall be produced on AutoCAD software program and shall document all devices, system components, and connections including, but not limited to, all detection and notification devices, panels and relays layered over building functional drawings depicting cabinet and device locations and conduit and cable runs. Contractor shall deliver to the Manager twelve (12) weeks after the award date of this Contract (3) printed copies and one CD disc of all drawings for review. The Manager shall review the drawings submitted and return to the Contractor within fourteen (14) calendar days with all comments. The Contractor shall respond to all comments and return three (3) printed copies and one CD of the completed drawings within four (4) weeks. In addition, the Contractor shall continually update modifications and a complete set of revised documents shall be delivered annually during the term of the Contract and any option periods exercised. Annual updated as-built drawings shall be submitted to the Manager on October 1st, for initial review.

16. Pass Codes, etc.

The Contractor shall continuously make available to the Manager, all passwords, passcodes, or other such information which is in any way connected to the remote or local operation, notification, or monitoring of the Fire Alarm System. All cost associated with the Contractor's failure to supply such pass codes upon request of the Manager, shall be the responsibility of the Contractor. The Authority reserves the right to change any passwords, passcodes or other such information, at the completion of this Contract.

17. Prevailing Wages

The Contractor shall provide (and shall cause all Subcontractors to pay or provide) to his or her Technicians or mechanics (who are employed by him/her to work on an hourly or daily basis at any trade or occupation at or about the Facility) at least the prevailing rate of wage and supplements for others engaged in the same trade or occupation in the locality in which the Services are being performed as determined by the Manager and notwithstanding that such rate may be higher than the rate in effect on the date of opening of the bids.

For the purposes of this Contract, the prevailing rates of wage and supplements are those established by the Comptroller of the City of New York for the locality and for the period of time in which the work is performed.

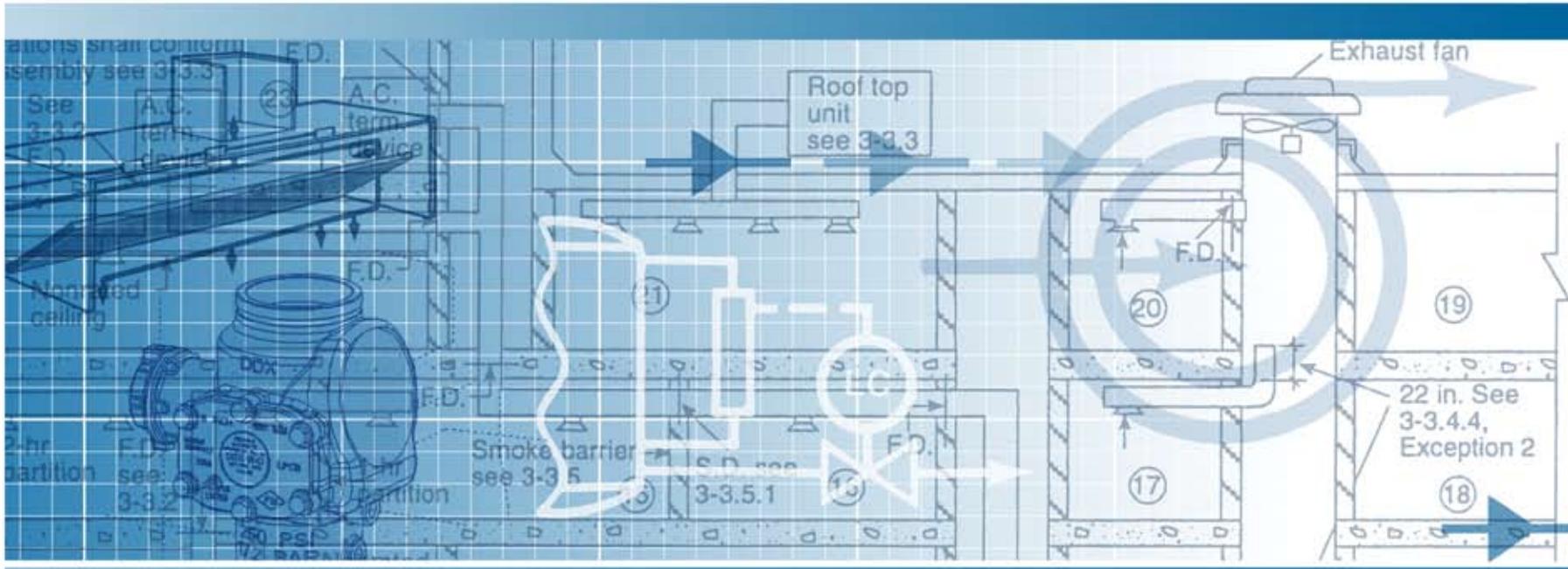
The provisions of this clause are inserted in this Contract for the benefit of such Technicians or mechanics as well as for the benefit of the Port Authority; and if the Contractor or any Subcontractor shall pay or provide any such Technicians or mechanics less than the rates of wages and supplements above described, such Technicians or mechanics shall have a direct right of action against the Contractor or such Subcontractor for the difference between the wages and supplements actually paid or provided and those to which he/she is entitled under this clause. If such Technicians or mechanics are employed by any Subcontractor whose subcontract does not contain a provision substantially similar to the provisions of this clause (requiring the payment or provision of at least the above minimum, and providing for a cause of action in the event of the Subcontractor's failure to pay or provide such wages and supplements) such Technicians or mechanics shall have a direct right of action against the Contractor. The Port Authority shall not be a necessary party to any action brought by any Technicians or mechanics to obtain a money judgment against the Contractor or any Subcontractor pursuant to this clause.

Nothing herein contained shall be construed to prevent the Contractor or any Subcontractor from paying higher rates or providing higher supplements than the minimum hereinbefore described; and nothing herein contained shall be construed to constitute a representation or guarantee by the Port Authority that the Contractor or any Subcontractor can obtain Technicians or mechanics for the minimum hereinbefore described.

18. Documentation

Required information and documentation as provided in these Specifications is a prerequisite to payment. The Contractor shall initial and date all applicable and completed Manual forms (see Attachment "A") (including general, maintenance, inspection and testing) prior to submitting them to the Manager. The Contractor shall submit to the Manager, all proper documentation and information including, but not limited to, the Manual's general information forms, applicable maintenance forms (inspection and testing), and daily work/service tickets, with billings prior to payment being made.

ATTACHMENT “A”



Inspection, Testing and Maintenance Requirements for Fire Protection and Life Safety Systems

**ENGINEERING DEPARTMENT AND OFFICE OF THE CHIEF OPERATING OFFICER
January 2012**

REVISED 11-5-12

**Fire Protection & Life Safety (FPLS) System
Manual and Inspection, Testing, and Maintenance (ITM) Forms
(11-05-2012)**

Manual and Form Update Instructions:

This update replaces the FPLS Manual pages identified below and all ITM Forms initially provided in the Manual with new Forms. Please replace each ITM Form in your Manual according to its Form number found on the upper right hand corner and dispose of the old Forms.

Please visit the Port Authority Internet webpage to view the updated Manual.
(<http://www.panynj.gov/about/pdf/ITM-Manual.pdf>)

The FPLS Manual and ITM Form updates are as described below.

A. FPLS Manual Updates

1. Section II. Page V of X - Roles and Responsibilities
2. Appendix A – List of Valid Pages

B. FPLS Manual ITM Form Updates

1. Chapter 4 – Forms 4036 and 4037 were combined into Form 4036 - Pages 1 & 2 titled “Fire Pumps-Annual Inspection.” Form 4037 will be an unassigned Form number.
2. Chapter 9 – The title of Forms 4080 through 4086 is changed to “Dry and Wet Chemical Fire Extinguishing Systems,” to reflect the title of the Chapter.
3. Chapter 11 – Forms 4102 and 4103 were combined into Form 4102 - Pages 1 & 2 titled “Fire Detection and Alarm Systems – Semi-Annual Inspection.” Form 4103 will be an unassigned Form number.
4. Chapter 11 – Forms 4106 and 4107 were combined into Form 4106 - Pages 1 & 2 titled “Fire Detection and Alarm Systems – Annual Test.” Form 4107 will be an unassigned Form number.
5. Chapter 17 – Form 4144 incorrectly referenced Form 17E in the text below the header. The reference was changed to Form 4145.
6. Chapter 17 – Form 4145 incorrectly referenced Form 17D in the text below the header. The reference was changed to Form 4144.

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Appendix A

List of Valid Pages

I. INTRODUCTION

This Manual defines the requirements for inspection, testing, and maintenance of Fire Protection and Life Safety (FPLS) systems for all Port Authority of NY and NJ (PANYNJ) facilities. FPLS systems include but are not limited to fire sprinkler systems, fire detection systems, fire alarm systems, smoke management systems, emergency lighting systems, and fire rated doors.

FPLS systems provide protection of life and property for the general public, patrons, and employees throughout PANYNJ facilities. To sustain a fire safe environment, all FPLS systems must be inspected, tested, and maintained to assure proper performance in emergencies.

The tasks identified in this Manual for inspection, testing, and maintenance are designed to conform with national, state, and local Code requirements for FPLS systems. These tasks, as defined herein, shall be completed at all PANYNJ facilities.

III. HOW TO USE THIS MANUAL

This Manual is divided into 17 chapters delineating tasks by systems and components. Tasks are detailed work descriptions for inspection, testing, and maintenance. Each task should be considered as independent, requiring completion and documentation, but tasks can be combined when working on the same or similar systems to achieve efficiency.

Chapters may be further subdivided into sections and usually include a general section applicable to all systems and equipment and then specific requirements that are only applicable to specific systems.

Each task is numbered and includes a subject, an activity, a frequency, and a PANYNJ form number used for documentation.

18.	Hydraulic Nameplate	Inspection	Quarterly	Form PA 4003
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5.2.7 *Hydraulic Nameplate - The hydraulic nameplate for hydraulically designed systems shall be inspected quarterly to verify that it is attached securely to the sprinkler riser and is legible.*

Additional information may be provided for each task consisting of the referenced section from the code or standard defining the task.

Maintenance work orders, contract service agreements, or any other method used to complete the required inspection, testing, and maintenance routines must use the information and forms provided in this Manual as the basis for all work.

PROGRAM INITIATION

As an integral part of any inspection, testing, and maintenance program, the quantity of all systems and equipment must be clearly documented. Each chapter provides a “General Information” form that must be used to accumulate information regarding all FPLS systems and equipment. Based on the information gathered, work routines for inspection, testing, and maintenance requirements can be accurately outlined and assigned.

COORDINATION OF INSPECTIONS AND TESTING

Inspection, testing, and maintenance tasks can and should be coordinated to complete work more efficiently by performing tasks with overlapping frequencies or on the same equipment or systems under one work order.

MANUAL UPDATES

This Manual has been prepared in a format that provides for periodic updates. This document was finalized January 2012 and is in effect as of this date. Reviews, amendments and updates will be completed as required to conform with applicable code revisions. Appendix A includes a list of valid pages.

IV. RECORDS AND REPORTS

ITM DOCUMENTATION

Inspection, Testing, and Maintenance (ITM) documentation shall be retained by management staff responsible for FPLS systems. These records shall be kept on site and available for review by authorized inspection personnel at all times. Documentation of ITM will include but is not limited to:

- a. Date;
- b. Procedure performed;
- c. Name and signature of the servicing personnel and the organization's name that performed the work;
- d. Test results
- e. Equipment and system deficiencies
- f. Corrective actions, including parts replaced and settings or programming changes

Documentation indicating completion of inspections, testing, and maintenance signifies compliance with all requirements for the specified task. Deviation from completing required tasks should be clearly identified for future work scheduling and/or corrective actions.

V. DEFINITIONS

Fire Protection Systems:

Approved devices, equipment and systems or combinations of systems used to detect fire, activate an alarm, extinguish or control a fire, control or manage smoke and product of a fire or any combination thereof, including fire extinguishing systems, fire alarm systems, sprinkler systems and standpipe systems.

Inspection:

A visual examination of a system or portion thereof to verify that it appears in an operating condition and is free of physical damages.

Inspection, Testing, and Maintenance Service:

A service program provided by a qualified contractor or qualified owner's representative in which all components unique to the property's systems are inspected and tested at the required times and necessary maintenance is provided. This program includes logging and retention of relevant records.

Life Safety Systems:

Life Safety systems include fire protection devices, occupancy features, and building/floor designs that facilitate occupancy safety from fire emergencies including smoke and heat, and other non-fire related emergencies such as earthquakes and electric power failures. Life Safety systems include fire alarm notification devices, means of egress plans, areas of refuge, emergency lighting, exit signs, and smoke control systems.

Maintenance:

Work performed to keep equipment operable or to make repairs.

Testing:

A procedure used to determine the status of a system as intended by conducting periodic physical checks on water based fire systems such as water flow tests, fire pump tests, alarm tests, and trip tests of dry pipe, deluge or pre-action valves. These tests follow up on the original acceptance test at intervals specified in the appropriate chapter.

VI. REFERENCES

New York City Building Code – 2008 Edition

New York City Fire Code – 2008 Edition

International Building Code – 2006 New Jersey Edition

New Jersey Fire Code – 2006 Edition

NATIONAL FIRE PROTECTION ASSOCIATION

NFPA 10 (2007):	Standard for Portable Fire Extinguishers
NFPA 11 (2002):	Low, Medium and High Expansion Foam
NFPA 12 (2002):	Carbon Dioxide Extinguishing Systems
NFPA 12A (1997):	Standard on Halon 1301 Fire Extinguishing Systems
NFPA 13 (2002):	Standard for the Installation of Sprinkler Systems
NFPA 14 (2003):	Standard for the Installation of Standpipe and Hose Systems
NFPA 16 (2003):	Standard for the Installation of Foam-Water and Foam-Water Spray systems
NFPA 17 (2002):	Dry Chemical Extinguishing Systems
NFPA 17A (2002):	Wet Chemical Extinguishing Systems
NFPA 20 (1999):	Standard for the Installation of Centrifugal Fire Pumps
NFPA 22 (1998):	Water Tanks for Private Fire Protection
NFPA 24 (2007):	Installation of Private Fire Service Mains and Their Appurtenances
NFPA 25 (2002):	Standard for the Inspection, Testing and Maintenance of Water Based Fire Protection Systems
NFPA 33 (2000):	Standard for Spray Application Using Flammable or Combustible Materials
NFPA 70 (2002):	National Electrical Code
NFPA 72 (2002):	National Fire Alarm Code
NFPA 80 (1999):	Standard for Fire Doors and Other Opening Protectives

NFPA 90A (2002):	Standard for the Installation of Air-Conditioning and Ventilating Systems
NFPA 92A (2006):	Standard for Smoke-Control Systems Utilizing Barriers and Pressure Differences
NFPA 96 (2004):	Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations
NFPA 101 (2003):	Life Safety Code
NFPA 110 (2002):	Standard for Emergency and Standby Power Systems
NFPA 111 (2001)	Standard on Stored Electrical Energy Emergency and Standby Power Systems
NFPA 409 (2001):	Standard for Aircraft Hangars
NFPA 1962 (2003):	Standard for the Inspection, Care, and Use of Fire Hose, Couplings, and Nozzles and the Service Testing of Fire Hose
NFPA 2001 (2004):	Standard on Clean Agent Fire Extinguishing System

CHAPTER 10 – CLEAN AGENT FIRE EXTINGUISHING SYSTEMS

DEFINITIONS

<i>Clean Agent.</i>	<i>Electrically nonconducting, volatile, or gaseous fire extinguishant that does not leave a residue upon evaporation. The word agent as used in this document means clean agent unless otherwise indicated.</i>
<i>Clearance.</i>	<i>The air distance between extinguishing system equipment, including piping and nozzles, and unenclosed or uninsulated live electrical components not at ground potential.</i>
<i>Design Factor (DF).</i>	<i>A fraction of the agent minimum design quantity (MDQ) added thereto deemed appropriate due to a specific feature of the protection application or design of the suppression system.</i>
<i>Electric Control Equipment.</i>	<i>The control equipment shall supervise the actuating devices and associated wiring and, as required, cause actuation. The control equipment shall be specifically listed for the number and type of actuating devices utilized, and their compatibility shall have been listed.</i>
<i>Engineered System.</i>	<i>A system requiring individual calculation and design to determine the flow rates, nozzle pressures, pipe size, area or volume protected by each nozzle, quantity of agent, and the number and types of nozzles and their placement in a specific system.</i>
<i>Halocarbon Agent.</i>	<i>An agent that contains as primary components one or more organic compounds containing one or more of the elements fluorine, chlorine, bromine, or iodine.</i>
<i>Inert Gas Agent.</i>	<i>An agent that contains as primary components one or more of the gases helium, neon, argon, or nitrogen. Inert gas agents that are blends of gases can also contain carbon dioxide as a secondary component.</i>
<i>Minimum Design Quantity (MDQ).</i>	<i>The quantity of agent required to achieve the minimum design concentration as calculated using the method in 5.5.1 or 5.5.2, as appropriate.</i>
<i>Normally Occupied Area.</i>	<i>One that is intended for occupancy.</i>

<i>Pneumatic Control Equipment.</i>	<i>Where pneumatic control equipment is used, the lines shall be protected against crimping and mechanical damage. Where installations could be exposed to conditions that could lead to loss of integrity of the pneumatic lines, special precautions shall be taken to ensure that no loss of integrity will occur. The control equipment shall be specifically listed for the number and type of actuating devices utilized, and their compatibility shall have been listed.</i>
<i>Pre-Engineered System.</i>	<i>A system having predetermined flow rates, nozzle pressures, and quantities of agent. These systems have the specific pipe size, maximum and minimum pipe lengths, flexible hose specifications, number of fittings, and number and types of nozzles prescribed by a testing laboratory. The hazards protected by these systems are specifically limited as to type and size by a testing laboratory based upon actual fire tests. Limitations on hazards that can be protected by these systems are contained in the manufacturer's installation manual, which is referenced as part of the listing.</i>
<i>Primary Agent Supply.</i>	<i>The amount of agent in the system primary agent supply shall be at least sufficient for the largest single hazard protected or group of hazards to be protected simultaneously.</i>
<i>Reserve Agent Supply.</i>	<i>Where required, a reserve agent supply shall consist of as many multiples of the primary agent supply as the authority having jurisdiction considers necessary.</i>
<i>Safety Factor (SF).</i>	<i>A multiplier of the agent flame extinguishing or inerting concentration to determine the agent minimum design concentration.</i>
<i>Storage Containers.</i>	<i>Agent shall be stored in containers designed to hold that specific agent at ambient temperatures. Containers shall be charged to a fill density or superpressurization level within the range specified in the manufacturer's listed manual.</i>
<i>Superpressurization.</i>	<i>The addition of gas to a fire extinguishing agent container to achieve a specified pressure therein.</i>
<i>Total Flooding.</i>	<i>The act and manner of discharging an agent for the purpose of achieving a specified minimum agent concentration throughout a hazard volume.</i>
<i>Total Flooding System.</i>	<i>A system consisting of an agent supply and distribution network designed to achieve a total flooding condition in a hazard volume.</i>
<i>Uninterrupted Protection.</i>	<i>Where uninterrupted protection is required, both the primary and the reserve agent supplies shall be permanently connected to the distribution piping and arranged for easy changeover.</i>

1. Existing Clean Agent Systems – General Information	Update	Annually	Form PA 4091
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Review General Information Form for all Clean Agent Fire Extinguishing Systems, update as required.

Confirm that the as-built instruction, maintenance manual, and a full set of drawings is provided as required:

5.1.2.4 *An as-built instruction and maintenance manual that includes a full sequence of operations and a full set of drawings and calculations shall be maintained on site.*

2. New or Altered Clean Agent Systems – General Information	Update	As Required	Form PA 4091
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Complete General Information Form for new Clean Agent Fire Extinguishing System or update General Information Form for Clean Agent Fire Extinguishing System that has been altered to include repairs and/or modifications to components.

Confirm that the as-built instruction, maintenance manual, and full set of drawings is provided as required:

5.1.2.4 *An as-built instruction and maintenance manual that includes a full sequence of operations and a full set of drawings and calculations shall be maintained on site.*

3. Clean Agent System	Inspection	Monthly	Form PA 4092
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904.10.1 *At least once a month, an inspection shall be conducted by a trained and knowledgeable person as assess whether the system is in good working order.*

4. Clean Agent System	Inspection, Testing	Annually	Form PA 4094
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6.1.1 *At least annually, all systems shall be thoroughly inspected and tested for proper operation by competent personnel. Discharge tests are not required.*

6.1.2 *The inspection report with recommendations shall be filed with the owner.*

5. Clean Agent System	Inspection, Testing	Semi- Annually	Form PA 4093
6.1.3	<i>At least semiannually, the agent quantity and pressure of refillable containers shall be checked.</i>		
6.1.3.1	<i>For halocarbon clean agents, if a container shows a loss in agent quantity of more than 5 percent or a loss in pressure (adjusted for temperature) of more than 10 percent, it shall be refilled or replaced.</i>		
6.1.3.2	<i>For inert gas clean agents that are not liquefied, pressure is an indication of agent quantity. If an inert gas clean agent container shows a loss in pressure (adjusted for temperature) of more than 5 percent, it shall be refilled or replaced. Where container pressure gauges are used for this purpose, they shall be compared to a separate calibrated device at least annually.</i>		
6.1.3.3	<i>Where the amount of agent in the container is determined by special measuring devices, these devices shall be listed.</i>		
6.1.4	<i>All halocarbon clean agents removed from refillable containers during service or maintenance procedures shall be collected and recycled or disposed of in an environmentally sound manner and in accordance with existing laws and regulations.</i>		
6.1.5	<i>Factory-charged, non-refillable containers that do not have a means of pressure indication shall have the agent quantity checked at least semiannually. If a container shows a loss in agent quantity of more than 5 percent, it shall be replaced. All factory-charged, non-refillable containers removed from useful service shall be returned for recycling of the agent or disposed of in an environmentally sound manner and in accordance with existing laws and regulations.</i>		
6.1.6	<i>For halocarbon clean agents, the date of inspection, gross weight of cylinder plus agent or net weight of agent, type of agent, person performing the inspection, and, where applicable, the pressure at a recorded temperature shall be recorded on a tag attached to the container. For inert gas clean agents, the date of inspection, type of agent, person performing the inspection, and the pressure at a recorded temperature shall be recorded on the tag attached to the container.</i>		

6. Container	Inspection, Testing	5 Years	Form PA 4095
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6.2.2 *Cylinders continuously in service without discharging shall be given a complete external visual inspection every 5 years or more frequently if required. The visual inspection shall be in accordance with Section 3 of CGA C-6, Standard for Visual Inspection of Steel Compressed Gas Cylinders, except that the cylinders need not be emptied or stamped while under pressure. Inspections shall be made only by competent personnel, and the results recorded on both of the following:*

- 1) *A record tag permanently attached to each cylinder*
- 2) *A suitable inspection report*

The following is the visual inspection defined by the Compressed Gas Association Pamphlet C-6, Section 3:

- 3.1 *Corrosion or pitting – Loss of wall thickness in a cylinder by corrosive media.*
 - 3.1.1 *Crevice corrosion – Corrosion that occurs in the area of the intersection of the footing or heading with the cylinder.*
 - 3.1.2 *Isolated pitting – Isolated pits of small diameter that do not effectively weaken a cylinder.*
 - 3.1.3 *Line corrosion – Corrosion that results in a continuous patten or when pits are connected to others in a narrow band or line. This condition is more serious than isolated pitting.*
 - 3.1.4 *General corrosion – Corrosion that covers considerable surface areas of the cylinder.*
- 3.2 *Cuts, gouges, or digs – Deformations in a cylinder caused by contact with a sharp object so as to cut into or upset the metal of the cylinder, decreasing the wall thickness at that point.*
- 3.3 *Cylinder, high and low pressure – High pressure cylinders are those with a marked service pressure of 900 psi (6210 kPa) or greater; low pressure cylinders are those with a marked service pressure less than 900 psi (6210 kPa).*
- 3.4 *Cylinder disposition – The following definitions apply to terms for the disposition of cylinders failing visual inspection.*
 - 3.4.1 *Condemned – Scrap, no longer fit for service.*
 - 3.4.2 *Rejected – Not fit for service in present condition.*

Note – Rejected cylinders may be requalified by either additional testing to verify adequacy of cylinder for continued service or by reheat treatment, repair, or rebuilding to correct the defect as specified in 49 CFR 180 Subpart C.

- 3.5 *Dents – Deformations in a cylinder caused by its coming in contact with a blunt object so the thickness of metal is not materially impaired.*
- 3.6 *Minimum allowable design thickness – Minimum design thickness required by the specification under which the cylinder was manufactured.*
- 3.7 *Weld defects – Cracks or flaws in weld areas that reduce the structural strength of metal, which can cause separation when pressurized.*
- 6.2.2.1 *A completed copy of the inspection report shall be furnished to the owner of the system or an authorized representative. These records shall be retained by the owner for the life of the system.*
- 6.2.3 *Where external visual inspection indicates that the container has been damaged, additional strength tests shall be required.*

7. Hose	Inspection	Annually	Form PA 4094
6.3.1	<i>General. All system hose shall be examined annually for damage. If visual examination shows any deficiency, the hose shall be immediately replaced or tested as specified in 6.3.2 as identified in Number 8 below.</i>		
8. Hose	Testing	5 Years	Form PA 4095
6.3.2.1	<i>All hose shall be tested every 5 years.</i>		
6.3.2.2	<i>All hose shall be tested at 1 ½ times the maximum container pressure at 130°F (54.4°C). The testing procedure shall be as follows:</i> <ol style="list-style-type: none"> 1) <i>The hose is removed from any attachment.</i> 2) <i>The hose assembly is then placed in a protective enclosure designed to permit visual observation of the test.</i> 3) <i>The hose must be completely filled with water before testing.</i> 4) <i>Pressure then is applied at a rate-of-pressure rise to reach the test pressure within a minimum of 1 minute. The test pressure is maintained for 1 full minute. Observations are then made to note any distortion or leakage.</i> 5) <i>If the test pressure has not dropped or if the couplings have not moved, the pressure is released. The hose assembly is then considered to have passed the hydrostatic test if no permanent distortion has taken place.</i> 6) <i>Hose assembly passing the test must be completely dried internally. If heat is used for drying, the temperature must not exceed the manufacturer's specifications.</i> 7) <i>Hose assemblies failing a hydrostatic test must be marked and destroyed and be replaced with new assemblies.</i> 8) <i>Each hose assembly passing the hydrostatic test is marked to show the date of test.</i> 		

9. Room Enclosure	Inspection	Annually	Form PA 4094
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|---------|---|
| 6.4 | <i>Enclosure Inspection. Other than as identified in 6.4.1, the enclosure protected by the clean agent shall be thoroughly inspected at least every 12 months to determine if penetrations or other changes have occurred that could adversely affect agent leakage or change volume of hazard, or both. Where the inspection indicated conditions that could result in the inability to maintain the clean agent concentration, the conditions shall be corrected. If uncertainty still exists, the enclosures shall be retested for integrity in accordance with 6.7.2.3.</i> |
| 6.7.2.3 | <i>Review Enclosure Integrity. All total flooding systems shall have the enclosure examined and tested to locate and then effectively seal any significant air leaks that could result in a failure of the enclosure to hold the specified agent concentration level for the specified holding period. The currently preferred method is using a blower door fan unit and smoke pencil. Quantitative results shall be obtained and recorded to indicate that the specified agent concentration for the specified duration of protection is in compliance with Section 5.6, using an approved blower fan unit or other means as approved by the authority having jurisdiction.</i> |
| 6.4.1 | <i>An enclosure inspection shall not be required every 12 months if a documented administrative control program exists that addresses barrier integrity.</i> |
| 6.5.3 | <i>Any penetrations made through the enclosure protected by the clean agent shall be sealed immediately. The method of sealing shall restore the original fire resistance rating of the enclosure.</i> |

CLEAN AGENT FIRE EXTINGUISHING SYSTEMS - GENERAL INFORMATION

PA 4091 / 02-12

Original Installation Date: _____

U.E.I. (Unique Element Identification) : _____

Building ID: _____

System ID / U.E.I.: _____

Date: _____

Inspector: _____

General

Clean Agent System Make/Model/Manufacturer: _____

Control Panel Location/Make/Manufacturer: _____

Clean Agent Design Concentration: _____

Describe Areas Protected - Above Suspended Ceiling and/or Below Raised Floors: _____

Number of Clean Agent Cylinders Installed: _____

Number of Clean Agent Cylinders required for Discharge: _____

Document Weights of all Cylinders with Clean Agent: _____

Clean Agent Pressure: _____

System Initiation

Number and Type of Fire Detection Devices: _____

Location of Manual Release Station: _____

Sequence of Operation: _____

Notes: _____

CHAPTER 11 – FIRE DETECTION AND ALARM SYSTEMS

DEFINITIONS

<i>Addressable Device</i>	<i>A fire alarm system component with discrete identification that can have its status individually identified or that is used to individually control other functions.</i>
<i>Air Sampling–Type Detector</i>	<i>A detector that consists of a piping or tubing distribution network that runs from the detector to the area(s) to be protected. An aspiration fan in the detector housing draws air from the protected area back to the detector through air sampling ports, piping, or tubing. At the detector, the air is analyzed for fire products.</i>
<i>Alarm</i>	<i>A warning of fire danger.</i>
<i>Alarm Signal</i>	<i>A signal indicating an emergency that requires immediate action, such as a signal indicative of fire.</i>
<i>Alarm Verification Feature</i>	<i>A feature of automatic fire detection and alarm systems to reduce unwanted alarms wherein smoke detectors report alarm conditions for a minimum period of time, or confirm alarm conditions within a given time period after being reset, in order to be accepted as a valid alarm initiation signal.</i>
<i>Alert Tone</i>	<i>An attention-getting signal to alert occupants of the pending transmission of a voice message.</i>
<i>Analog Initiating Device (Sensor)</i>	<i>An initiating device that transmits a signal indicating varying degrees of condition as contrasted with a conventional initiating device, which can only indicate an on–off condition.</i>
<i>Annunciator</i>	<i>A unit containing one or more indicator lamps, alphanumeric displays, or other equivalent means in which each indication provides status information about a circuit, condition, or location.</i>
<i>Audible Notification Appliance</i>	<i>A notification appliance that alerts by the sense of hearing.</i>
<i>Automatic Extinguishing System Supervisory Device</i>	<i>A device that responds to abnormal conditions that could affect the proper operation of an automatic sprinkler system or other fire extinguishing system(s) or suppression system(s), including, but not limited to, control valves, pressure levels, liquid agent levels and temperatures, pump power and running, engine temperature and overspeed, and room temperature.</i>

<i>Automatic Fire Detector</i>	<i>A device designed to detect the presence of a fire signature and to initiate action. For the purpose of this Code, automatic fire detectors are classified as follows: Automatic Fire Extinguishing or Suppression System Operation Detector, Fire–Gas Detector, Heat Detector, Other Fire Detectors, Radiant Energy–Sensing Fire Detector, Smoke Detector.</i>
<i>Automatic Fire Extinguishing or Suppression System Operation Detector</i>	<i>A device that automatically detects the operation of a fire extinguishing or suppression system by means appropriate to the system employed.</i>
<i>Auxiliary Fire Alarm System</i>	<i>A system connected to a municipal fire alarm system for transmitting an alarm of fire to the public fire service communications center. Fire alarms from an auxiliary fire alarm system are received at the public fire service communications center on the same equipment and by the same methods as alarms transmitted manually from municipal fire alarm boxes located on streets.</i>
<i>Central Station</i>	<i>A supervising station that is listed for central station service.</i>
<i>Central Station Fire Alarm System</i>	<i>A system or group of systems in which the operations of circuits and devices are transmitted automatically to, recorded in, maintained by, and supervised from a listed central station that has competent and experienced servers and operators who, upon receipt of a signal, take such action as required by this Code. Such service is to be controlled and operated by a person, firm, or corporation whose business is the furnishing, maintaining, or monitoring of supervised fire alarm systems.</i>
<i>Central Station Service</i>	<i>The use of a system or a group of systems in which the operations of circuits and devices at a protected property are signaled to, recorded in, and supervised from a listed central station that has competent and experienced operators who, upon receipt of a signal, take such action as required by this Code. Related activities at the protected property, such as equipment installation, inspection, testing, maintenance, and runner service, are the responsibility of the central station or a listed fire alarm service local company. Central station service is controlled and operated by a person, firm, or corporation whose business is the furnishing of such contracted services or whose properties are the protected premises.</i>
<i>Channel</i>	<i>A path for voice or signal transmission that uses modulation of light or alternating current within a frequency band.</i>

<i>Cloud Chamber Smoke Detection</i>	<i>The principle of using an air sample drawn from the protected area into a high-humidity chamber combined with a lowering of chamber pressure to create an environment in which the resultant moisture in the air condenses on any smoke particles present, forming a cloud. The cloud density is measured by a photoelectric principle. The density signal is processed and used to convey an alarm condition when it meets preset criteria.</i>
<i>Combination Detector</i>	<i>A device that either responds to more than one of the fire phenomenon or employs more than one operating principle to sense one of these phenomenon. Typical examples are a combination of a heat detector with a smoke detector or a combination rate-of-rise and fixed-temperature heat detector.</i>
<i>Communications Channel</i>	<i>A circuit or path connecting a subsidiary station(s) to a supervising station(s) over which signals are carried.</i>
<i>Derived Channel</i>	<i>A signaling line circuit that uses the local leg of the public switched network as an active multiplex channel while simultaneously allowing that leg's use for normal telephone communications.</i>
<i>Digital Alarm Communicator Receiver (DACR)</i>	<i>A system component that accepts and displays signals from digital alarm communicator transmitters (DACTs) sent over the public switched telephone network.</i>
<i>Digital Alarm Communicator System (DACS)</i>	<i>A system in which signals are transmitted from a digital alarm communicator transmitter (DACT) located at the protected premises through the public switched telephone network to a digital alarm communicator receiver (DACR).</i>
<i>Digital Alarm Communicator Transmitter (DACT)</i>	<i>A system component at the protected premises to which initiating devices or groups of devices are connected. The DACT seizes the connected telephone line, dials a preselected number to connect to a DACR, and transmits signals indicating a status change of the initiating device</i>
<i>Digital Alarm Radio Receiver (DARR)</i>	<i>A system component composed of two subcomponents: one that receives and decodes radio signals, the other that annunciates the decoded data. These two subcomponents can be coresident at the central station or separated by means of a data transmission channel.</i>
<i>Digital Alarm Radio System (DARS)</i>	<i>A system in which signals are transmitted from a digital alarm radio transmitter (DART) located at a protected premises through a radio channel to a digital alarm radio receiver (DARR).</i>
<i>Digital Alarm Radio Transmitter (DART)</i>	<i>A system component that is connected to or an integral part of a digital alarm communicator transmitter (DACT) that is used to provide an alternate radio transmission channel.</i>

<i>Display</i>	<i>The visual representation of output data, other than printed copy.</i>
<i>Electrical Conductivity Heat Detector</i>	<i>A line-type or spot-type sensing element in which resistance varies as a function of temperature.</i>
<i>Emergency Voice/Alarm Communications</i>	<i>Dedicated manual or automatic facilities for originating and distributing voice instructions, as well as alert and evacuation signals pertaining to a fire emergency, to the occupants of a building.</i>
<i>Evacuation</i>	<i>The withdrawal of occupants from a building.</i>
<i>Evacuation Signal</i>	<i>A distinctive signal intended to be recognized by the occupants as requiring evacuation of the building.</i>
<i>Exit Plan</i>	<i>A plan for the emergency evacuation of the premises.</i>
<i>Fire Alarm Control Unit (Panel)</i>	<i>A system component that receives inputs from automatic and manual fire alarm devices and might supply power to detection devices and to a transponder(s) or off-premises transmitter(s). The control unit might also provide transfer of power to the notification appliances and transfer of condition to relays or devices connected to the control unit. The fire alarm control unit can be a local fire alarm control unit or a master control unit.</i>
<i>Fire Alarm Signal</i>	<i>A signal initiated by a fire alarm-initiating device such as a manual fire alarm box, automatic fire detector, waterflow switch, or other device in which activation is indicative of the presence of a fire or fire signature.</i>
<i>Fire Alarm System</i>	<i>A system or portion of a combination system that consists of components and circuits arranged to monitor and annunciate the status of fire alarm or supervisory signal-initiating devices and to initiate the appropriate response to those signals.</i>
<i>Fire Alarm/Evacuation Signal Tone Generator</i>	<i>A device that produces a fire alarm/evacuation tone upon command.</i>
<i>Fire Command Center</i>	<i>The principal attended or unattended location where the status of the detection, alarm communications, and control systems is displayed and from which the system(s) can be manually controlled.</i>
<i>Fire Safety Function Control Device</i>	<i>The fire alarm system component that directly interfaces with the control system that controls the fire safety function.</i>
<i>Fire Safety Functions</i>	<i>Building and fire control functions that are intended to increase the level of life safety for occupants or to control the spread of the harmful effects of fire.</i>

<i>Fire Warning Equipment</i>	<i>Any detector, alarm, device, or material related to single- and multiple-station alarms or household fire alarm systems.</i>
<i>Fire–Gas Detector</i>	<i>A device that detects gases produced by a fire.</i>
<i>Fixed-Temperature Detector</i>	<i>A device that responds when its operating element becomes heated to a predetermined level.</i>
<i>Flame Detector</i>	<i>A radiant energy–sensing fire detector that detects the radiant energy emitted by a flame.</i>
<i>Flame Detector Sensitivity</i>	<i>The distance along the optical axis of the detector at which the detector can detect a fire of specified size and fuel within a given time frame</i>
<i>Heat Detector</i>	<i>A fire detector that detects either abnormally high temperature or rate of temperature rise, or both.</i>
<i>Initiating Device</i>	<i>A system component that originates transmission of a change-of-state condition, such as in a smoke detector, manual fire alarm box, or supervisory switch.</i>
<i>Initiating Device Circuit</i>	<i>A circuit to which automatic or manual initiating devices are connected where the signal received does not identify the individual device operated.</i>
<i>Intermediate Fire Alarm or Fire Supervisory Control Unit</i>	<i>A control unit used to provide area fire alarm or area fire supervisory service that, where connected to the proprietary fire alarm system, becomes a part of that system.</i>
<i>Ionization Smoke Detection</i>	<i>The principle of using a small amount of radioactive material to ionize the air between two differentially charged electrodes to sense the presence of smoke particles. Smoke particles entering the ionization volume decrease the conductance of the air by reducing ion mobility. The reduced conductance signal is processed and used to convey an alarm condition when it meets preset criteria.</i>
<i>Line-Type Detector</i>	<i>A device in which detection is continuous along a path. Typical examples are rate-of-rise pneumatic tubing detectors, projected beam smoke detectors, and heat-sensitive cable.</i>
<i>Loss of Power</i>	<i>The reduction of available voltage at the load below the point at which equipment can function as designed.</i>
<i>Low-Power Radio Transmitter</i>	<i>Any device that communicates with associated control/receiving equipment by low-power radio signals.</i>
<i>Maintenance</i>	<i>Work, including, but not limited to, repair, replacement, and service, performed to ensure that equipment operates properly.</i>

<i>Manual Fire Alarm Box</i>	<i>A manually operated device used to initiate an alarm signal.</i>
<i>Master Control Unit (Panel)</i>	<i>A control unit that serves the protected premises or portion of the protected premises as a local control unit and accepts inputs from other fire alarm control units.</i>
<i>Multiplexing</i>	<i>A signaling method characterized by simultaneous or sequential transmission, or both, and reception of multiple signals on a signaling line circuit, a transmission channel, or a communications channel, including means for positively identifying each signal.</i>
<i>Municipal Fire Alarm Box (Street Box)</i>	<i>An enclosure housing a manually operated transmitter used to send an alarm to the public fire service communications center.</i>
<i>Municipal Fire Alarm System</i>	<i>A system of alarm initiating devices, receiving equipment, and connecting circuits (other than a public telephone network) used to transmit alarms from street locations to the public fire service communications center.</i>
<i>Nonrequired (Voluntary) System</i>	<i>A fire alarm system component or group of components that is installed at the option of the owner, and is not installed due to a building or fire code requirement.</i>
<i>Nonrestorable Initiating Device</i>	<i>A device in which the sensing element is designed to be destroyed in the process of operation.</i>
<i>Notification Appliance</i>	<i>A fire alarm system component such as a bell, horn, speaker, light, or text display that provides audible, tactile, or visible outputs, or any combination thereof.</i>
<i>Nuisance Alarm</i>	<i>Any alarm caused by mechanical failure, malfunction, improper installation, or lack of proper maintenance, or any alarm activated by a cause that cannot be determined.</i>
<i>Other Fire Detectors</i>	<i>Devices that detect a phenomenon other than heat, smoke, flame, or gases produced by a fire.</i>
<i>Paging System</i>	<i>A system intended to page one or more persons by such means as voice over loudspeaker, coded audible signals or visible signals, or lamp annunciators.</i>
<i>Photoelectric Light Obscuration Smoke Detection</i>	<i>The principle of using a light source and a photosensitive sensor onto which the principal portion of the source emissions is focused. When smoke particles enter the light path, some of the light is scattered and some is absorbed, thereby reducing the light reaching the receiving sensor. The light reduction signal is processed and used to convey an alarm condition when it meets preset criteria.</i>

***Photoelectric Light-Scattering
Smoke Detection***

The principle of using a light source and a photosensitive sensor arranged so that the rays from the light source do not normally fall onto the photosensitive sensor. When smoke particles enter the light path, some of the light is scattered by reflection and refraction onto the sensor. The light signal is processed and used to convey an alarm condition when it meets preset criteria.

***Pneumatic Rate-of-Rise Tubing
Heat Detector***

A line-type detector comprising small-diameter tubing, usually copper, that is installed on the ceiling or high on the walls throughout the protected area. The tubing is terminated in a detector unit containing diaphragms and associated contacts set to actuate at a predetermined pressure. The system is sealed except for calibrated vents that compensate for normal changes in temperature.

Projected Beam–Type Detector

A type of photoelectric light obscuration smoke detector wherein the beam spans the protected area.

Proprietary Supervising Station

A location to which alarm or supervisory signaling devices on proprietary fire alarm systems are connected and where personnel are in attendance at all times to supervise operation and investigate signals.

***Proprietary Supervising Station
Fire Alarm System***

An installation of fire alarm systems that serves contiguous and noncontiguous properties, under one ownership, from a proprietary supervising station located at the protected property, or at one of multiple non-contiguous protected properties, at which trained, competent personnel are in constant attendance. This includes the proprietary supervising station; power supplies; signal-initiating devices; initiating device circuits; signal notification appliances; equipment for the automatic, permanent visual recording of signals; and equipment for initiating the operation of emergency building control services.

***Protected Premises (Local)
Control Unit (Panel)***

A control unit that serves the protected premises or a portion of the protected premises and indicates the alarm via notification appliances inside the protected premises.

***Protected Premises (Local)
Fire Alarm System***

A protected premises system that sounds an alarm at the protected premises as the result of the manual operation of a fire alarm box or the operation of protection equipment or systems, such as water flowing in a sprinkler system, the discharge of carbon dioxide, the detection of smoke, or the detection of heat.

Public Fire Alarm Reporting System

A system of fire alarm-initiating devices, receiving equipment, and connecting circuits used to transmit alarms from street locations to the communications center.

<i>Radiant Energy–Sensing Fire Detector</i>	<i>A device that detects radiant energy, such as ultraviolet, visible, or infrared, that is emitted as a product of combustion reaction and obeys the laws of optics.</i>
<i>Radio Alarm Repeater Station Receiver (RARSR)</i>	<i>A system component that receives radio signals and resides at a repeater station that is located at a remote receiving location.</i>
<i>Radio Alarm Supervising Station Receiver (RASSR)</i>	<i>A system component that receives data and annunciates that data at the supervising station.</i>
<i>Radio Alarm System (RAS)</i>	<i>A system in which signals are transmitted from a radio alarm transmitter (RAT) located at a protected premises through a radio channel to two or more radio alarm repeater station receivers (RARSR) and that are annunciated by a radio alarm supervising station receiver (RASSR) located at the central station.</i>
<i>Radio Alarm Transmitter (RAT)</i>	<i>A system component at the protected premises to which initiating devices or groups of devices are connected that transmits signals indicating a status change of the initiating devices.</i>
<i>Radio Channel</i>	<i>A band of frequencies of a width sufficient to allow its use for radio communications.</i>
<i>Rate Compensation Detector</i>	<i>A device that responds when the temperature of the air surrounding the device reaches a predetermined level, regardless of the rate of temperature rise.</i>
<i>Rate-of-Rise Detector</i>	<i>A device that responds when the temperature rises at a rate exceeding a predetermined value.</i>
<i>Remote Supervising Station Fire Alarm System</i>	<i>A system installed in accordance with this Code to transmit alarm, supervisory, and trouble signals from one or more protected premises to a remote location where appropriate action is taken.</i>
<i>Repeater Station</i>	<i>The location of the equipment needed to relay signals between supervising stations, subsidiary stations, and protected premises.</i>
<i>Restorable Initiating Device</i>	<i>A device in which the sensing element is not ordinarily destroyed in the process of operation, whose restoration can be manual or automatic.</i>
<i>Runner</i>	<i>A person other than the required number of operators on duty at central, supervising, or runner stations (or otherwise in contact with these stations) available for prompt dispatching, when necessary, to the protected premises.</i>
<i>Runner Service</i>	<i>The service provided by a runner at the protected premises, including resetting and silencing of all equipment transmitting fire alarm or supervisory signals to an off-premises location.</i>

<i>Signaling Line Circuit</i>	<i>A circuit or path between any combination of circuit interfaces, control units, or transmitters over which multiple system input signals or output signals, or both, are carried.</i>
<i>Signaling Line Circuit Interface</i>	<i>A system component that connects a signaling line circuit to any combination of initiating devices, initiating device circuits, notification appliances, notification appliance circuits, system control outputs, and other signaling line circuits.</i>
<i>Site-Specific Software</i>	<i>Software that defines the specific operation and configuration of a particular system. Typically, it defines the type and quantity of hardware modules, customized labels, and specific operating features of a system.</i>
<i>Smoke Detector</i>	<i>A device that detects visible or invisible particles of combustion.</i>
<i>Spark/Ember Detector</i>	<i>A radiant energy–sensing fire detector that is designed to detect sparks or embers, or both. These devices are normally intended to operate in dark environments and in the infrared part of the spectrum.</i>
<i>Spot-Type Detector</i>	<i>A device in which the detecting element is concentrated at a particular location. Typical examples are bimetallic detectors, fusible alloy detectors, certain pneumatic rate-of-rise detectors, certain smoke detectors, and thermoelectric detectors.</i>
<i>Supervision</i>	<i>A means of monitoring system status and indicating abnormal conditions.</i>
<i>Supervising Station</i>	<i>A facility that receives signals and at which personnel are in attendance at all times to respond to these signals.</i>
<i>Supervisory Service</i>	<i>The service required to monitor performance of guard tours and the operative condition of fixed suppression systems or other systems for the protection of life and property.</i>
<i>Supervisory Signal</i>	<i>A signal indicating the need for action in connection with the supervision of guard tours, the fire suppression systems or equipment, or the maintenance features of related systems.</i>
<i>Supervisory Signal-Initiating Device</i>	<i>An initiating device such as a valve supervisory switch, water level indicator, or low air pressure switch on a dry-pipe sprinkler system in which the change of state signals an off-normal condition and its restoration to normal of a fire protection or life safety system; or a need for action in connection with guard tours, fire suppression systems or equipment, or maintenance features of related systems.</i>

<i>Tactile Notification Appliance</i>	<i>A notification appliance that alerts by the sense of touch or vibration.</i>
<i>Textual Audible Notification Appliance</i>	<i>A notification appliance that conveys a stream of audible information. An example of a textual audible notification appliance is a speaker that reproduces a voice message.</i>
<i>Textual Visible Notification Appliance</i>	<i>A notification appliance that conveys a stream of visible information that displays an alphanumeric or pictorial message. Textual visible notification appliances provide temporary text, permanent text, or symbols. Textual visible notification appliances include, but are not limited to, annunciators, monitors, CRTs, displays, and printers.</i>
<i>Transmission Channel</i>	<i>A circuit or path connecting transmitters to supervising stations or subsidiary stations on which signals are carried.</i>
<i>Trouble Signal</i>	<i>A signal initiated by the fire alarm system or device indicative of a fault in a monitored circuit or component.</i>
<i>Visible Notification Appliance</i>	<i>A notification appliance that alerts by the sense of sight.</i>
<i>Wireless Protection System</i>	<i>A system or a part of a system that can transmit and receive signals without the aid of wire. It can consist of either a wireless control panel or a wireless repeater.</i>
<i>Wireless Repeater</i>	<i>A component used to relay signals between wireless receivers or wireless control panels, or both.</i>

A. ALL FIRE DETECTION AND ALARM SYSTEMS

1. Existing Fire Detection and Alarm Systems General Information	Update	Annually	Forms PA 4097, 4098, 4099
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Review General Information Form for all Fire Detection and Alarm Systems, update as required.

2. New or Altered Fire Detection and Alarm Systems General Information	Update	As Required	Forms PA 4097, 4098, 4099
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Complete General Information Form for new Fire Detection and Alarm Systems or update General Information Form for Fire Detection and Alarm Systems that have been altered to include repairs and/or modifications to components.

B. ALARM NOTIFICATION APPLIANCES

1. Alarm Notification Appliances	Inspection	Semi-Annually	Form PA 4102
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2. Alarm Notification Appliances	Testing	Annually	Form PA 4107
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(a) Audible

Sound pressure level shall be measured with sound level meter meeting ANSI S1.4a, Specifications for Sound Level Meters, Type 2 requirements. Levels throughout protected area shall be measured and recorded. The sound level meter shall be set in accordance with ANSI S3.41, American National Standard Audible Evacuation Signal, using the time-weighted characteristic F (FAST). Record the maximum output when the audible emergency evacuation signal is on.

- (b) *Audible textural notification appliances (speakers and other appliances to convey voice messages)*

Sound pressure level shall be measured with sound level meter meeting ANSI S1.4a, Specifications for Sound Level Meters, Type 2 requirements. Levels throughout protected area shall be measured and recorded. The sound level meter shall be set in accordance with ANSI S3.41, American National Standard Audible Evacuation Signal, using the time-weighted characteristic F (FAST). Record the maximum output when the audible emergency evacuation signal is on. 4Audible information shall be verified to be distinguishable and understandable.
- (c) *Visible*

Test shall be performed in accordance with the manufacturer's instructions. Appliance locations shall be verified to be per approved layout and it shall be confirmed that no floor plan changes affect the approved layout. Verify that the candela rating marking agrees with the approved drawings. It shall be confirmed that each appliance flashes.

C. ALARM INITIATION DEVICES AND EQUIPMENT

1. Initiation Devices	Inspection	Quarterly	Form PA 4101
<ul style="list-style-type: none"> (a) <i>Radiant energy fire detectors</i> (b) <i>Supervisory signal devices</i> (c) <i>Waterflow devices</i> 			
2. Initiation Devices	Inspection	Semi-Annually	Form PA 4102
<ul style="list-style-type: none"> (a) <i>Air sampling</i> (b) <i>Duct detectors</i> (c) <i>Electromechanical releasing devices</i> (d) <i>Fire extinguishing system(s) or suppression system(s) switches</i> (e) <i>Fire alarm boxes</i> (f) <i>Heat detectors</i> (g) <i>Smoke detectors</i> 			

3. Initiation Devices – Smoke Detectors	Testing	Annually	Form PA 4106
(a) <i>Duct Type</i>	<i>Air duct detectors shall be tested or inspected to ensure that the device will sample the airstream. The test shall be made in accordance with the manufacturer’s instructions.</i>		
(b) <i>System detectors and single-station smoke alarms used in other than one and two family dwellings</i>	<p><i>The detectors shall be tested in place to ensure smoke entry into the sensing chamber and an alarm response. Testing with smoke or listed aerosol approved by the manufacturer shall be permitted as acceptable test methods. Other methods approved by the manufacturer that ensure smoke entry into the sensing chamber shall be permitted. Any of the following tests shall be performed to ensure that each smoke detector is within its listed and marked sensitivity range:</i></p> <ol style="list-style-type: none"> <li>(1) <i>Calibrated test method</i> <li>(2) <i>Manufacturer’s calibrated sensitivity test instrument</i> <li>(3) <i>Listed control equipment arranged for the purpose</i> <li>(4) <i>Smoke detector/control unit arrangement whereby the detector causes a signal at the control unit when its sensitivity is outside its listed sensitivity range</i> <li>(5) <i>Other calibrated sensitivity test method approved by the authority having jurisdiction</i> 		
(c) <i>Single- and multiple station smoke alarms</i>	<i>Functional tests shall be conducted according to manufacturer’s instructions.</i>		
(d) <i>Air Sampling</i>	<i>Per manufacturer’s recommended test methods, detector alarm response shall be verified through the end sampling port on each pipe run; airflow through all other ports shall be verified as well.</i>		
(e) <i>Projected beam type</i>	<i>The detector shall be tested by introducing smoke, other aerosol, or an optical filter into the beam path.</i>		
(f) <i>Smoke detector with built-in thermal element</i>	<i>Both portions of the detector shall be operated independently as described for the respective devices.</i>		
(g) <i>Smoke detectors with control output functions</i>	<i>It shall be verified that the control capability shall remain operable even if all of the initiating devices connected to the same initiating device circuit or signaling line circuit are in an alarm state.</i>		

4. Initiation Devices – Electromechanical Releasing Device	Testing	Annually	Form PA 4106
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(a) *Nonrestorable-type link* *Correct operation shall be verified by removal of the fusible link and operation of the associated device. Any moving parts shall be lubricated as necessary.*

(b) *Restorable-type link* *Correct operation shall be verified by removal of the fusible link and operation of the associated device. Any moving parts shall be lubricated as necessary.*

Fusible thermal link detectors are commonly used to close fire doors and fire dampers. They are actuated by the presence of external heat, which causes a solder element in the link to fuse, or by an electric thermal device, which, when energized, generates heat within the body of the link, causing the link to fuse and separate.

5. Initiation Devices – Fire extinguishing system(s) or suppression system(s) alarm switch	Testing	Annually	Form PA 4106
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The switch shall be mechanically or electrically operated and receipt of signal by the control panel shall be verified.

6. Initiation Devices – Fire–Gas and Other Detectors	Testing	Annually	Form PA 4106
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Fire–gas detectors and other fire detectors shall be tested as prescribed by the manufacturer and as necessary for the application.

7. Initiation Devices – Heat Detectors	Testing	Annually	Form PA 4106
(a) <i>Fixed-temperature, rate-of-rise, rate of compensation, restorable line, spot type (excluding pneumatic tube type)</i>	<i>Heat test shall be performed with a heat source per the manufacturer’s recommendations for response within 1 minute. A test method shall be used that is recommended by the manufacturer or other method shall be used that will not damage the nonrestorable fixed-temperature element of a combination rate-of-rise/fixed-temperature element detector.</i>		
(b) <i>Fixed-temperature, nonrestorable line type</i>	<i>Heat test shall not be performed. Functionality shall be tested mechanically and electrically. Loop resistance shall be measured and recorded. Changes from acceptance test shall be investigated.</i>		
(c) <i>Fixed-temperature, nonrestorable spot type</i>	<i>After 15 years from initial installation, all devices shall be replaced or two detectors per 100 shall be laboratory tested. The two detectors shall be replaced with new devices. If a failure occurs on any of the detectors removed, additional detectors shall be removed and tested to determine either a general problem involving faulty detectors or a localized problem involving one or two defective detectors. If detectors are tested instead of replaced, tests shall be repeated at intervals of 5 years.</i>		
(d) <i>Nonrestorable (general)</i>	<i>Heat tests shall not be performed. Functionality shall be tested mechanically and electrically.</i>		
(e) <i>Restorable line type, pneumatic tube only</i>	<i>Heat tests shall be performed (where test chambers are in circuit) or a test with pressure pump shall be conducted.</i>		
(f) <i>Single- and multiple-station heat alarms</i>	<i>Functional tests shall be conducted according to manufacturer’s instructions. Nonrestorable heat detectors shall not be tested with heat.</i>		

8. Initiation Devices – Fire Alarm Boxes	Testing	Annually	Form PA 4106
<i>Manual fire alarm boxes shall be operated per the manufacturer’s instructions. Key-operated presignal and general alarm manual fire alarm boxes shall both be tested.</i>			

9. Initiation Devices – Radiant Energy Fire Detectors	Testing	Semi-Annually	Form PA 4105
<p><i>Flame detectors and spark/ember detectors shall be tested in accordance with the manufacturer’s instructions to determine that each detector is operative. Flame detector and spark/ember detector sensitivity shall be determined using any of the following:</i></p>			
<p><i>(1) Calibrated test method</i></p> <p><i>(2) Manufacturer’s calibrated sensitivity test instrument</i></p> <p><i>(3) Listed control unit arranged for the purpose</i></p> <p><i>(4) Other approved calibrated sensitivity test method that is directly proportional to the input signal from a fire, consistent with the detector listing or approval.</i></p>			
<p><i>If designed to be field adjustable, detectors found to be outside of the approved range of sensitivity shall be replaced or adjusted to bring them into the approved range.</i></p>			
<p><i>Flame detector and spark/ember detector sensitivity shall not be determined using a light source that administers an unmeasured quantity of radiation at an undefined distance from the detector.</i></p>			
10. Initiation Devices Supervisory	Testing	Quarterly	Form PA 4104
(a) High- or low-air pressure switch	<p><i>Switch shall be operated. Receipt of signal obtained where the required pressure is increased or decreased a maximum 70 kPa (10 psi) from the required pressure level shall be verified.</i></p>		
(b) Room temperature switch	<p><i>Switch shall be operated. Receipt of signal to indicate the decrease in room temperature to 4.4°C (40°F) and its restoration to above 4.4°C (40°F) shall be verified.</i></p>		
(c) Water level switch	<p><i>Switch shall be operated. Receipt of signal indicating the water level raised or lowered 76.2 mm (3 in.) from the required level within a pressure tank, or 305 mm (12 in.) from the required level of a nonpressure tank, shall be verified, as shall its restoral to required level.</i></p>		

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|--|---|
| (c) <i>Abort switch (special type)</i> | <i>Abort switch shall be operated. Correct sequence and operation in accordance with authority having jurisdiction shall be verified. Sequencing on as-built drawings or in owner's manual shall be observed.</i> |
| (d) <i>Cross zone detection circuit</i> | <i>One sensor or detector on each zone shall be operated. Occurrence of correct sequence with operation of first zone and then with operation of second zone shall be verified.</i> |
| (e) <i>Matrix-type circuit</i> | <i>All sensors in system shall be operated. Development of correct matrix with each sensor operated shall be verified.</i> |
| (f) <i>Release solenoid circuit</i> | <i>Solenoid shall be used with equal current requirements. Operation of solenoid shall be verified.</i> |
| (g) <i>Squibb release circuit</i> | <i>AGI flashbulb or other test light approved by the manufacturer shall be used. Operation of flashbulb or light shall be verified.</i> |
| (h) <i>Verified, sequential, or counting zone circuit</i> | <i>Required sensors at a minimum of four locations in circuit shall be operated. Correct sequence with both the first and second detector in alarm shall be verified.</i> |
| (i) <i>All above devices or circuits or combinations thereof</i> | <i>Supervision of circuits shall be verified by creating an open circuit.</i> |

D. BATTERIES – FIRE ALARM SYSTEMS

GENERAL INFORMATION

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|--------------------------------|--|
| (a) <i>Visual inspection</i> | <i>Batteries shall be inspected for corrosion or leakage. Tightness of connections shall be checked and ensured. If necessary, battery terminals or connections shall be cleaned and coated. Electrolyte level in lead-acid batteries shall be visually inspected.</i> |
| (b) <i>Battery replacement</i> | <i>Batteries shall be replaced in accordance with the recommendations of the alarm equipment manufacturer or when the recharged battery voltage or current falls below the manufacturer's recommendations.</i> |
| (c) <i>Charger test</i> | <i>Operation of battery charger shall be checked in accordance with charger test for the specific type of battery.</i> |

- (d) *Discharge test*

With the battery charger disconnected, the batteries shall be load tested following the manufacturer's recommendations. The voltage level shall not fall below the levels specified.

Exception: An artificial load equal to the full fire alarm load connected to the battery shall be permitted to be used in conducting this test.

- (e) *Load voltage test*

With the battery charger disconnected, the terminal voltage shall be measured while supplying the maximum load required by its application. The voltage level shall not fall below the levels specified for the specific type of battery. If the voltage falls below the level specified, corrective action shall be taken and the batteries shall be retested.

Exception: An artificial load equal to the full fire alarm load connected to the battery shall be permitted to be used in conducting this test.

1. Batteries	Inspection	Monthly	Form PA 4101
<i>Lead-acid Type</i>			
<i>Primary Type (Dry Cell)</i>			
2. Batteries	Inspection	Semi-Annually	Form PA 4102
<i>Nickel-Cadmium Type</i>			
<i>Sealed-lead Acid Type</i>			
3. Batteries (Lead-acid Type)	Testing	Semi-Annually	Form PA 4105
1.	<i>Discharge test (30 minutes)</i>		
2.	<i>Load voltage test</i>	<i>Under load, the battery shall not fall below 2.05 volts per cell.</i>	

3. *Specific gravity* *The specific gravity of the liquid in the pilot cell or all of the cells shall be measured as required. The specific gravity shall be within the range specified by the manufacturer. Although the specified specific gravity varies from manufacturer to manufacturer, a range of 1.205–1.220 is typical for regular lead-acid batteries, while 1.240–1.260 is typical for high-performance batteries. A hydrometer that shows only a pass or fail condition of the battery and does not indicate the specific gravity shall not be used, because such a reading does not give a true indication of the battery condition.*

4. Batteries (Lead-acid Type) Testing Annually Form PA 4106

1. *Charger test (replace battery as needed.)* *With the batteries fully charged and connected to the charger, the voltage across the batteries shall be measured with a voltmeter. The voltage shall be 2.30 volts per cell ±0.02 volts at 25°C (77°F) or as specified by the equipment manufacturer.*

5. Batteries (Nickel-Cadmium type) Testing Semi-Annually Form PA 4105

1. *Load voltage test* *Under load, the float voltage for the entire battery shall be 1.42 volts per cell, nominal. If possible, cells shall be measured individually.*

6. Batteries (Nickel-Cadmium type) Testing Annually Form PA 4106

1. *Charger test (replace battery as needed.)* *With the batteries fully charged and connected to the charger, an ampere meter shall be placed in series with the battery under charge. The charging current shall be in accordance with the manufacturer's recommendations for the type of battery used. In the absence of specific information, 1 30 to 1 25 of the battery rating shall be used.*
2. *Discharge test (30 minutes)*

7. Batteries (Primary type – dry cell)	Testing	Monthly	Form PA 4104
1. Load voltage test	The maximum load for a No. 6 primary battery shall not be more than 2 amperes per cell. An individual (1.5-volt) cell shall be replaced when a load of 1 ohm reduces the voltage below 1 volt. A 6-volt assembly shall be replaced when a test load of 4 ohms reduces the voltage below 4 volts.		
8. Batteries (Sealed lead-acid type)	Testing	Semi-Annually	Form PA 4105
1. Load voltage test	Under load, the battery shall perform in accordance with the battery manufacturer's specifications.		
9. Batteries (Sealed lead-acid type)	Testing	Annually	Form PA 4106
1. Charger test (replace battery within 5 years after manufacture or more frequently as needed.)	With the batteries fully charged and connected to the charger, the voltage across the batteries shall be measured with a voltmeter. The voltage shall be 2.30 volts per cell ± 0.02 volts at 25°C (77°F) or as specified by the equipment manufacturer.		
2. Discharge test (30 minutes)			

E. CONTROL EQUIPMENT

1. Control Equipment: Fire Alarm Systems Un-Monitored for Alarm, Supervisory, and Trouble Signals	Inspection	Weekly	Form PA 4100
(a) Fuses			
(b) Interfaced equipment			
(c) Lamps and LEDs			
(d) Primary (main) power supply			

2. Control Equipment: Fire Alarm Systems Monitored for Alarm, Supervisory, and Trouble Signals	Inspection	Annually	Form PA 4108
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- (a) *Fuses*
- (b) *Interfaced equipment*
- (c) *Lamps and LEDs*
- (d) *Primary (main) power supply*

3. Control Equipment (Not Connected to a Supervising Station)	Testing	Quarterly	Form PA 4104
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|--|---|
| (a) <i>Functions</i> | <i>At a minimum, control equipment shall be tested to verify correct receipt of alarm, supervisory, and trouble signals (inputs), operation of evacuation signals and auxiliary functions (outputs), circuit supervision including detection of open circuits and ground faults, and power supply supervision for detection of loss of ac power and disconnection of secondary batteries.</i> |
| (b) <i>Fuses</i> | <i>The rating and supervision shall be verified.</i> |
| (c) <i>Interfaced equipment</i> | <i>Integrity of single or multiple circuits providing interface between two or more control panels shall be verified. Interfaced equipment connections shall be tested by operating or simulating operation of the equipment being supervised. Signals required to be transmitted shall be verified at the control panel.</i> |
| (d) <i>Lamps and LEDs</i> | <i>Lamps and LEDs shall be illuminated.</i> |
| (e) <i>Primary (main) power supply</i> | <i>All secondary (standby) power shall be disconnected and tested under maximum load, including all alarm appliances requiring simultaneous operation. All secondary (standby) power shall be reconnected at end of test. For redundant power supplies, each shall be tested separately.</i> |
| (f) <i>Transponders</i> | |

6. Control Unit Trouble Signals	Testing	Annually	Form PA 4106
(a) Audible and visual	<i>Operation of panel trouble signals shall be verified as well as ring-back feature for systems using a trouble-silencing switch that requires resetting.</i>		
(b) Disconnect switches	<i>If control unit has disconnect or isolating switches, performance of intended function of each switch shall be verified and receipt of trouble signal when a supervised function is disconnected shall also be verified.</i>		
(c) Ground-fault monitoring circuit	<i>If the system has a ground detection feature, the occurrence of ground-fault indication shall be verified whenever any installation conductor is grounded.</i>		
(d) Transmission of signals to off-premises location	<i>An initiating device shall be actuated and receipt of alarm signal at the off-premises location shall be verified. A trouble condition shall be created and receipt of a trouble signal at the off-premises location shall be verified. A supervisory device shall be actuated and receipt of a supervisory signal at the off-premises location shall be verified. If a transmission carrier is capable of operation under a single- or multiple-fault condition, an initiating device shall be activated during such fault condition and receipt of a trouble signal at the off-premises location shall be verified, in addition to the alarm signal.</i>		
7. Remote Annunciators	Inspection	Semi-Annually	Form PA 4102
8. Remote Annunciators	Testing	Annually	Form PA 4106
<i>Remote Annunciators</i>	<i>The correct operation and identification of annunciators shall be verified. If provided, the correct operation of annunciator under a fault condition shall be verified.</i>		
9. Interface Equipment	Inspection	Semi-Annually	Form PA 4102

10. Interface Equipment	Testing	Annually	Form PA 4107
<i>Interface Equipment</i>	<i>Interface equipment connections shall be tested by operating or simulating the equipment being supervised. Signals required to be transmitted shall be verified at the control panel. Test frequency for interface equipment shall be the same as the frequency required by the applicable NFPA standard(s) for the equipment being supervised.</i>		
11. Fiber-Optic Cable Connections	Inspection	Annually	Form PA 4108
12. Fiber-Optic Cable Power	Testing	Annually	Form PA 4106
<i>Fiber optics</i>	<i>The fiber-optic transmission line shall be tested in accordance with the manufacturer's instructions by the use of an optical power meter or by an optical time domain reflectometer used to measure the relative power loss of the line. This relative figure for each fiber-optic line shall be recorded in the fire alarm control panel. If the power level drops 2 percent or more from the value recorded during the initial acceptance test, the transmission line, section thereof, or connectors shall be repaired or replaced by a qualified technician to bring the line back into compliance with the accepted transmission level per the manufacturer's recommendations.</i>		
13. Off-Premises Transmission Equipment	Testing	Quarterly	Form PA 4104
6.12.1	<i>Systems requiring transmission of signals to continuously attended locations providing supervising station service (e.g., central station, proprietary supervising station, remote supervising station) shall also comply with the applicable requirements of Chapter 8.</i>		
6.12.2	<i>Relays or modules providing transmission of trouble signals to a supervising station shall be arranged to provide fail-safe operation.</i>		
6.12.3	<i>Means provided to transmit trouble signals to supervising stations shall be arranged so as to transmit a trouble signal to the supervising station for any trouble condition received at the protected premises control unit, including loss of primary or secondary power.</i>		

14. Supervising Station Fire Alarm Systems – Transmitters	Inspection	Semi-Annually	Form PA 4103
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- (a) DACT
- (b) DART
- (c) McCulloh
- (d) RAT

15. Supervising Station Fire Alarm Systems – Transmission Equipment	Testing	Annually	Form PA 4107
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- (a) All equipment

Test shall be performed on all system functions and features in accordance with the equipment manufacturer's instructions.

Initiating device shall be actuated. Receipt of the correct initiating device signal at the supervising station within 90 seconds shall be verified. Upon completion of the test, the system shall be restored to its functional operating condition.

If test jacks are used, the first and last tests shall be made without the use of the test jack.

- (b) Digital alarm communicator transmitter (DACT)

Connection of the DACT to two separate means of transmission shall be ensured.

Exception: DACTs that are connected to a telephone line (number) that is also supervised for adverse conditions by a derived local channel.

DACT shall be tested for line seizure capability by initiating a signal while using the primary line for a telephone call. Receipt of the correct signal at the supervising station shall be verified. Completion of the transmission attempt within 90 seconds from going off-hook to on-hook shall be verified.

The primary line from the DACT shall be disconnected. Indication of the DACT trouble signal at the premises shall be verified as well as transmission to the supervising station within 4 minutes of detection of the fault.

The secondary means of transmission from the DACT shall be disconnected. Indication of the DACT trouble signal at the premises shall be verified as

well as transmission to the supervising station within 4 minutes of detection of the fault.

The DACT shall be caused to transmit a signal to the DACR while a fault in the primary telephone number is simulated. Utilization of the secondary telephone number by the DACT to complete the transmission to the DACR shall be verified.

(c) *Digital alarm radio transmitter (DART)*

The primary telephone line shall be disconnected. Transmission of a trouble signal to the supervising station by the DART within 4 minutes shall be verified.

(d) *McCulloh transmitter*

Initiating device shall be actuated. Production of not less than three complete rounds of not less than three signal impulses each by the McCulloh transmitter shall be verified.

If end-to-end metallic continuity is present and with a balanced circuit, each of the following four transmission channel fault conditions shall be caused in turn, and receipt of correct signals at the supervising station shall be verified:

- (1) *Open*
- (2) *Ground*
- (3) *Wire-to-wire short*
- (4) *Open and ground*

If end-to-end metallic continuity is not present and with a properly balanced circuit, each of the following three transmission channel fault conditions shall be caused in turn, and receipt of correct signals at the supervising station shall be verified:

- (1) *Open*
- (2) *Ground*
- (3) *Wire-to-wire short*

(e) *Radio alarm transmitter (RAT)*

A fault between elements of the transmitting equipment shall be caused. Indication of the fault at the protected premises shall be verified or it shall be verified that a trouble signal is transmitted to the supervising station.

16. Supervising Station Fire Alarm Systems — Receivers

Inspection

Monthly

Form PA 4104

(a) *DACR**

**Reports of automatic signal receipt shall be verified daily.*

17. Supervising Station Fire Alarm Systems — Receivers	Inspection	Semi-Annually	Form PA 4103
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- (b) DARR*
- (c) McCulloh systems*
- (d) Two-way RF multiplex*
- (e) RASSR*
- (f) RARS*
- (g) Private microwave*

**Reports of automatic signal receipt shall be verified daily.*

18. Supervising Station Fire Alarm Systems — Receiving Equipment	Testing	Monthly	Form PA 4107
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- (a) All equipment

*Tests shall be performed on all system functions and features in accordance with the equipment manufacturer's instructions for correct operation in conformance with the applicable sections of **Chapter 8 – NFPA 72 (2002)**.*

Initiating device shall be actuated. Receipt of the correct initiating device signal at the supervising station within 90 seconds shall be verified. Upon completion of the test, the system shall be restored to its functional operating condition.

If test jacks are used, the first and last tests shall be made without the use of the test jack.

- (b) Digital alarm communicator receiver (DACR)

Each telephone line (number) shall be disconnected in turn from the DACR and audible and visual annunciation of a trouble signal in the supervising station shall be verified.

A signal shall be caused to be transmitted on each individual incoming DACR line at least once every 24 hours. Receipt of these signals shall be verified.

- (c) Digital alarm radio

The following conditions of all DARRs on all subsidiary receiver (DARR) and repeater station receiving equipment shall be caused. Receipt at the supervising station of correct signals for each of the following conditions shall be verified:

- (1) AC power failure of the radio equipment
- (2) Receiver malfunction
- (3) Antenna and interconnecting cable failure

- (4) *Indication of automatic switchover of the DARR*
 - (5) *Data transmission line failure between the DARR and the supervising or subsidiary station*

- (d) *McCulloh systems*

The current on each circuit at each supervising and subsidiary station under the following conditions shall be tested and recorded:

 - (1) *During functional operation*
 - (2) *On each side of the circuit with the receiving equipment conditioned for an open circuit*

A single break or ground condition shall be caused on each transmission channel. If such a fault prevents the functioning of the circuit, receipt of a trouble signal shall be verified.

Each of the following conditions at each of the supervising or subsidiary stations and all repeater station radio transmitting and receiving equipment shall be caused; receipt of correct signals at the supervising station shall be verified:

 - (1) *RF transmitter in use (radiating)*
 - (2) *AC power failure supplying the radio equipment*
 - (3) *RF receiver malfunction*
 - (4) *Indication of automatic switchover*

- (e) *Radio alarm supervising station receiver (RASSR) and radio alarm repeater station receiver (RARSR)*

Each of the following conditions at each of the supervising or subsidiary stations and all repeater station radio transmitting and receiving equipment shall be caused; receipt of correct signals at the supervising station shall be verified:

 - (1) *AC power failure supplying the radio equipment*
 - (2) *RF receiver malfunction*
 - (3) *Indication of automatic switchover, if applicable*

- (f) *Private microwave radio systems*

Each of the following conditions at each of the supervising or subsidiary stations and all repeater station radio transmitting and receiving equipment shall be caused; receipt of correct signals at the supervising station shall be verified:

 - (1) *RF transmitter in use (radiating)*
 - (2) *AC power failure supplying the radio equipment*
 - (3) *RF receiver malfunction*
 - (4) *Indication of automatic switchover*

19. Low-Power Radio – Wireless Systems	Inspection	Monthly	Form PA 4101
(1)	<i>Batteries for all components in the system shall be checked monthly. If the control panel checks all batteries and all components daily, the system shall not require monthly testing of the batteries.</i>		
20. Low-Power Radio – Wireless Systems	Testing	Annually	Form PA 4107

The following procedures describe additional acceptance and reacceptance test methods to verify wireless protection system operation:

(1) *The manufacturer’s manual and the as-built drawings provided by the system supplier shall be used to verify correct operation after the initial testing phase has been performed by the supplier or by the supplier’s designated representative.*

(2) *Starting from the functional operating condition, the system shall be initialized in accordance with the manufacturer’s manual. A test shall be conducted to verify the alternative path, or paths, by turning off or disconnecting the primary wireless repeater. The alternative communications path shall exist between the wireless control panel and peripheral devices used to establish initiation, indication, control, and annunciation. The system shall be tested for both alarm and trouble conditions.*

**FIRE DETECTION AND ALARM SYSTEMS - GENERAL INFORMATION -
FIRE ALARM CONTROL PANELS**

PA 4097 / 02-12

Original Installation Date: _____	U.E.I. (Unique Element Identification) : _____
--	---

Date: _____	Building ID: _____	FACP ID: _____
--------------------	---------------------------	-----------------------

Fire Alarm Panels

Fire Alarm Panel - Make/Model/Manufacturer: _____

Fire Alarm Panel – Location: _____

Signals Transmitted to: _____

Emergency Power provided by: _____

Identify Number and Location of SubPanels, Nodes, DGPs, Annunciator panels, Smoke Management panels, Fire Suppression Releasing panels, etc., connected to this fire alarm panel. Provide unique identifier for each. Use reverse side of form if necessary.

Alarm Notification Devices

Total number of Audible Notification Devices: _____

Total number of Visual Notification Devices: _____

Alarm Initiating Devices

Total number of Smoke Detection Devices: _____

Total number of Heat Detection Devices: _____

Total number of Manual Pull Stations: _____

Number of Water Flow Alarm Signals: _____

Number of Tamper Switch signals: _____

Number of Supervisory Signals: _____

Number/Description of Other Alarm Initiating Devices: _____

Special Functions

Smoke Purge / Smoke Management Systems Yes No

Releasing Devices i.e. Electromagnetic Locks, Electric Strike Locks, Door Hold Open Devices, etc. Yes No

Emergency Voice/Alarm Communications Systems Yes No

Fire Suppression System Activation i.e., FM200 systems, Deluge Sprinkler Systems, Dry Chemical Extinguishing Systems, etc. Yes No

Other Fire Alarm System Special Functions: _____

Notes: _____

FIRE DETECTION AND ALARM SYSTEMS - SEMI-ANNUAL INSPECTION (Page 1 of 2) PA 4102 / 02-12

Building ID: _____ **ACP ID:** _____

Identify the Number of Devices or Systems inspected and specify device or system information on the reverse side of this form.

Date:		
Inspector:		
Nickel-Cadmium Batteries Inspected		
Sealed Lead-Acid Batteries Inspected		
Transient suppressors		
Control panel trouble signals		
Emergency Voice/Alarm Communications Equipment Inspected		
Number of Remote Annunciators Inspected		
Air-sampling initiating devices		
Number of Duct Smoke Detectors Inspected		
Number of Electromechanical Releasing Devices Inspected		
Number of Fire Extinguishing System Switches Inspected		
Number of Fire Suppression System Switches Inspected		
Number of Fire alarm boxes (manual stations) Inspected		
Number of Heat Detectors Inspected		
Number of Smoke Detectors Inspected		
Interface Equipment Inspected		
Number of Alarm Notification Appliances Inspected		

Notes: _____

FIRE DETECTION AND ALARM SYSTEMS - MONTHLY/QUARTERLY TESTS

PA 4104 / 02-12

Building ID: _____ **FACP ID:** _____

Y = Satisfactory N = Unsatisfactory (explain below) N/A = Not applicable

Monthly Test

Date:														
Inspector:														
Load voltage for dry-cell batteries:														

Monthly Test - Supervising Station FA System - Receivers

Receivers - All Equipment:														
DACR:														
DARR:														
McCulloh System:														
Two-way RF Multiplex:														
RASSR:														
RARSR:														
Private Microwave:														

Quarterly Test (for Fire Alarm Systems having Unmonitored Signals)

Date:														
Inspector:														
Functions:														
Fuses:														
Interfaced equipment:														
Lamps and LEDs:														
Primary (main) power supply:														
Transponders:														
Supervisory signal devices except tamper switches:														
Off-premises transmission equipment:														

Notes: _____
Continue on reverse if necessary

FIRE DETECTION AND ALARM SYSTEMS - ANNUAL TEST (Page 1 of 2)

PA 4106 / 02-12

Date: _____ **Building ID:** _____ **FACP ID:** _____
Inspector: _____

	Yes	No	N/A
Control Equipment: Fire Alarm Systems Monitored for Alarm, Supervisory, and Trouble Signals			
Functions			
Fuses			
Interfaced Equipment			
Lamps and LEDs			
Primary (main) power supply			
Transponders			
Batteries—Fire Alarm Systems			
Lead-Acid Type — Charger Test (Replace battery as needed.)			
Nickel-Cadmium Type — Charger Test (Replace battery as needed.)			
Nickel-Cadmium Type — Discharge Test (30 min)			
Sealed Lead-Acid Type — Charger Test (Replace battery every 4 years.)			
Sealed Lead-Acid Type — Discharge Test (30 min)			
Other			
Fiber-Optic Cable Power			
Control Unit Trouble Signals			
Emergency Voice-Alarm Communications Equipment			
Remote Annunciators			
Initiating Devices			
Duct smoke detectors			
Electromechanical releasing device			
Fire extinguishing system(s) or suppression system(s) switches			
Fire-gas and other detectors			
Heat detectors			
Fire alarm boxes (manual stations)			
All smoke detectors—functional			
Smoke detectors—sensitivity			

Date: _____ Building ID: _____ FACP ID: _____
 Inspector: _____

	Yes	No	N/A
Interface Equipment			
Special Hazard Equipment			
Alarm Notification Appliances			
Audible devices			
Speakers			
Visible devices			
Supervising Station FA Systems - Transmitters			
Transmitters - All Equipment			
DACT			
DART			
McCulloh			
RAT			
Supervising Station FA Systems - Receivers			
DACR			
DARR			
McCulloh			
RASSR			
RARSR			
Private Microwave			
Low-Power Radio – Wireless Systems			

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STANDARD CONTRACT TERMS AND CONDITIONS

PART I GENERAL DEFINITIONS

To avoid undue repetition, the following terms, as used in this Agreement, shall be construed as follows:

Authority or Port Authority - shall mean the Port Authority of New York and New Jersey.

Contract, Document or Agreement - shall mean the writings setting forth the scope, terms, conditions and Specifications for the procurement of Goods and/or Services, as defined hereunder and shall include, but not be limited to: Invitation for Bid (IFB), Request for Quotation (RFQ), Request for Proposal (RFP), Purchase Order (PO), Cover Sheet, executed Signature Sheet, AND PRICING SHEETS with Contract prices inserted, "STANDARD CONTRACT TERMS AND CONDITIONS," and, if included, attachments, endorsements, schedules, exhibits, or drawings, the Authority's acceptance and any written addenda issued over the name of the Authority's Manager, Purchasing Services Division.

Days or Calendar Days - shall mean consecutive calendar days, Saturdays, Sundays, and holidays, included.

Week - unless otherwise specified, shall mean seven (7) consecutive calendar days, Saturdays, Sundays, and holidays.

Month - unless otherwise specified, shall mean a calendar month.

Director - shall mean the Director of the Department which operates the facility of the Port Authority at which the services hereunder are to be performed, for the time being, or his/her successor in duties for the purpose of this Contract, acting personally or through one of his/her authorized representatives for the purpose of this Contract.

Manager - shall mean the Manager of the Facility for the time being or his successor in duties for the purpose of this Contract, acting personally or through his duly authorized representative for the purpose of this Contract.

No person shall be deemed a representative of the Director or Manager except to the extent specifically authorized in an express written notice to the Contractor signed by the Director or Manager, as the case may be. Further, no person shall be deemed a successor in duties of the Director unless the Contractor is so notified in writing signed by the Authority's Manager, Purchasing Services Division. No person shall be deemed a successor in duties of the Manager unless the Contractor is so notified in a writing signed by the Director.

Minority Business Enterprise (MBE) - shall mean a business entity which is at least 51% owned and controlled by one or more members of one or more minority groups, or, in the case of a publicly held corporation, at least 51% of the stock of which is owned by one or more minority groups, and whose management and daily business operations are controlled by one or more such individuals who are citizens or permanent resident aliens.

"Minority Group" means any of the following racial or ethnic groups:

- (a) Black persons having origins in any of the Black African racial groups not of Hispanic origin;
- (b) Hispanic persons of Mexican, Puerto Rican, Dominican, Cuban, Central or South American culture or origin, regardless of race;
- (c) Asian and Pacific Islander persons having origins in any of the original peoples of the Far East, Southeast Asia, The Indian Subcontinent, or the Pacific Islands;

- (d) Native American or Alaskan native persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification.

Site of the Work - or words of similar import shall mean the Facility and all buildings and properties associated therewith as described in this Contract.

Small Business Enterprise (SBE) - The criteria for a Small Business Enterprise are:

- o The principal place of business must be located in New York or New Jersey;
- o The firm must have been in business for at least three years with activity;
- o Average gross income limitations by industry as established by the Port Authority.

Subcontractor - shall mean anyone who performs work (other than or in addition to the furnishing of materials, plant or equipment) in connection with the services to be provided hereunder, directly or indirectly for or on behalf of the Contractor (and whether or not in privity of contract with the Contractor), but shall not include any person who furnished merely his own personal labor or his own personal services. "Subcontractor", however, shall exclude the Contractor or any subsidiary or parent of the Contractor or any person, firm or corporation which has a substantial interest in the Contractor or in which the Contractor or the parent or the subsidiary of the Contractor, or an officer or principal of the Contractor or of the parent of the subsidiary of the Contractor has a substantial interest, provided, however, that for the purpose of the clause hereof entitled "Assignments and Subcontracts" the exclusion in this paragraph shall not apply to anyone but the Contractor itself.

Women-Owned Business Enterprise (WBE) - shall mean a business enterprise which is at least 51% owned by one or more women, or, in the case of a publicly held corporation, at least 51% of the stock of which is owned by one or more women and whose management and daily business operations are controlled by one or more women who are citizens or permanent or resident aliens.

Work - shall mean all services, equipment and materials (including materials and equipment, if any, furnished by the Authority) and other facilities and all other things necessary or proper for, or incidental to the services to be performed or goods to be furnished in connection with the service to be provided hereunder.

PART II GENERAL PROVISIONS

1. Facility Rules and Regulations of The Port Authority

- a. The Contractor shall observe and obey (and compel its officers, employees, guests, invitees, and those doing business with it, to observe and obey) the facility Rules and Regulations of the Port Authority now in effect, and such further reasonable Rules and Regulations which may from time to time during the term of this Agreement be promulgated by the Port Authority for reasons of safety, health, preservation of property or maintenance of a good and orderly appearance and efficient operation of the Facility. The Port Authority agrees that, except in case of emergency, it shall give notice to the Contractor of every Rule and Regulation hereafter adopted by it at least five days before the Contractor shall be required to comply therewith.
- b. A copy of the facility Rules and Regulations of the Port Authority shall be available for review by the Contractor at the Office of the Secretary of the Port Authority.

2. Contractor Not An Agent

This Agreement does not constitute the Contractor the agent or representative of the Port Authority for any

purpose whatsoever except as may be specifically provided in this Agreement. It is hereby specifically acknowledged and understood that the Contractor, in performing its services hereunder, is and shall be at all times an independent Contractor and the officers, agents and employees of the Contractor shall not be or be deemed to be agents, servants or employees of the Port Authority.

3. Contractor's Warranties

The Contractor represents and warrants:

- a. That it is financially solvent, that it is experienced in and competent to perform the requirements of this Contract, that the facts stated or shown in any papers submitted or referred to in connection with the solicitation are true, and, if the Contractor be a corporation, that it is authorized to perform this Contract;
- b. That it has carefully examined and analyzed the provisions and requirements of this Contract, and that from its own investigations it has satisfied itself as to the nature of all things needed for the performance of this Contract, the general and local conditions and all other matters which in any way affect this Contract or its performance, and that the time available to it for such examination, analysis, inspection and investigation was adequate;
- c. That the Contract is feasible of performance in accordance with all its provisions and requirements and that it can and will perform it in strict accordance with such provisions and requirements;
- d. That no Commissioner, officer, agent or employee of the Port Authority is personally interested directly or indirectly in this Contract or the compensation to be paid hereunder;
- e. That, except only for those representations, statements or promises expressly contained in this Contract, no representation, statement or promise, oral or in writing, of any kind whatsoever by the Port Authority, its Commissioners, officers, agents, employees or consultants has induced the Contractor to enter into this Contract or has been relied upon by the Contractor, including any with reference to: (1) the meaning, correctness, suitability, or completeness of any provisions or requirements of this Contract; (2) the nature, quantity, quality or size of the materials, equipment, labor and other facilities needed for the performance of this Contract; (3) the general or local conditions which may in any way affect this Contract or its performance; (4) the price of the Contract; or (5) any other matters, whether similar to or different from those referred to in (1) through (4) immediately above, affecting or having any connection with this Contract, the bidding thereon, any discussions thereof, the performance thereof or those employed therein or connected or concerned therewith.

Moreover, the Contractor accepts the conditions at the Site of the Work as they may eventually be found to exist and warrants and represents that it can and will perform the Contract under such conditions and that all materials, equipment, labor and other facilities required because of any unforeseen conditions (physical or otherwise) shall be wholly at its own cost and expense, anything in this Contract to the contrary notwithstanding.

Nothing in the Specifications or any other part of the Contract is intended as or shall constitute a representation by the Port Authority as to the feasibility of performance of this Contract or any part thereof.

The Contractor further represents and warrants that it was given ample opportunity and time and by means of this paragraph was requested by the Port Authority to review thoroughly all documents forming this Contract prior to opening of Bids on this Contract in order that it might request inclusion in this Contract of any statement, representation, promise or provision which it desired or on which it wished to place reliance; that it did so review said documents, that either every such statement, representation, promise or provision has been included in this Contract or else, if omitted, that it expressly relinquishes the benefit of any such omitted statement, representation, promise or provision and is willing to perform this Contract without claiming reliance thereon or making any other claim on account of such omission.

The Contractor further recognizes that the provisions of this numbered clause (though not only such provisions) are essential to the Port Authority's consent to enter into this Contract and that without such provisions, the Authority would not have entered into this Contract.

4. Personal Non-Liability

Neither the Commissioners of the Port Authority nor any of them, nor any officer, agent or employee thereof, shall be charged personally by the Contractor with any liability, or held personally liable to the Contractor under any term or provision of this Agreement, or because of its execution or attempted execution, or because of any breach, or attempted or alleged breach, thereof.

5. Equal Employment Opportunity, Affirmative Action, Non-Discrimination

- a. The Contractor is advised to ascertain and comply with all applicable federal, State and local statutes, ordinances, rules and regulations and, federal Executive Orders, pertaining to equal employment opportunity, affirmative action, and non-discrimination in employment.
- b. Without limiting the generality of any other term or provision of this Contract, in the event of the Contractor's non-compliance with the equal opportunity and non-discrimination clause of this Contract, or with any of such statutes, ordinances, rules, regulations or Orders, this Contract may be cancelled, terminated or suspended in whole or in part.

6. Rights and Remedies of the Port Authority

The Port Authority shall have the following rights in the event the Contractor is deemed guilty of a breach of any term whatsoever of this Contract:

- a. The right to take over and complete the Work or any part thereof as agent for and at the expense of the Contractor, either directly or through others.
- b. The right to cancel this Contract as to any or all of the Work yet to be performed.
- c. The right to specific performance, an injunction or any appropriate equitable remedy.
- d. The right to money damages.

For the purpose of this Contract, breach shall include but not be limited to the following, whether or not the time has yet arrived for performance of an obligation under this Contract: a statement by the Contractor to any representative of the Port Authority indicating that the Contractor cannot or will not perform any one or more of its obligations under this Contract; any act or omission of the Contractor or any other occurrence which makes it improbable at the time that it will be able to perform any one or more of its obligations under this Contract; any suspension of or failure to proceed with any part of the Work by the Contractor which makes it improbable at the time that it will be able to perform any one or more of its obligations under this Contract.

The enumeration in this numbered clause or elsewhere in this Contract of specific rights and remedies of the Port Authority shall not be deemed to limit any other rights or remedies which the Authority would have in the absence of such enumeration; and no exercise by the Authority of any right or remedy shall operate as a waiver of any other of its rights or remedies not inconsistent therewith or to estop it from exercising such other rights or remedies.

7. Rights and Remedies of the Contractor

Inasmuch as the Contractor can be adequately compensated by money damages for any breach of this Contract which may be committed by the Port Authority, the Contractor expressly agrees that no default, act or omission of the Port Authority shall constitute a material breach of this Contract, entitling the Contractor to cancel or rescind this Contract or to suspend or abandon performance.

8. Submission To Jurisdiction

The Contractor hereby irrevocably submits itself to the jurisdiction of the Courts of the State of New York and New Jersey, in regard to any controversy arising out of, connected with, or in any way concerning this Contract.

The Contractor agrees that the service of process on the Contractor in relation to such jurisdiction may be

made, at the option of the Port Authority, either by registered or certified mail addressed to it at the address of the Contractor indicated on the signature sheet, or by actual personal delivery to the Contractor, if the Contractor is an individual, to any partner if the Contractor be a partnership or to any officer, director or managing or general agent if the Contractor be a corporation.

Such service shall be deemed to be sufficient when jurisdiction would not lie because of the lack of basis to serve process in the manner otherwise provided by law. In any case, however, process may be served as stated above whether or not it might otherwise have been served in a different manner.

9. Harmony

- a. The Contractor shall not employ any persons or use any labor, or use or have any equipment, or permit any condition to exist which shall or may cause or be conducive to any labor complaints, troubles, disputes or controversies at the Facility which interfere or are likely to interfere with the operation of the Port Authority or with the operations of lessees, licensees or other users of the Facility or with the operations of the Contractor under this Contract.

The Contractor shall immediately give notice to the Port Authority (to be followed by written notices and reports) of any and all impending or existing labor complaints, troubles, disputes or controversies and the progress thereof. The Contractor shall use its best efforts to resolve any such complaint, trouble, dispute or controversy. If any type of strike, boycott, picketing, work stoppage, slowdown or other labor activity is directed against the Contractor at the Facility or against any operations of the Contractor under this Contract, whether or not caused by the employees of the Contractor, and if any of the foregoing, in the opinion of the Port Authority, results or is likely to result in any curtailment or diminution of the services to be performed hereunder or to interfere with or affect the operations of the Port Authority, or to interfere with or affect the operations of lessees, licensees, or other users of the Facility or in the event of any other cessation or stoppage of operations by the Contractor hereunder for any reason whatsoever, the Port Authority shall have the right at any time during the continuance thereof to suspend the operations of the Contractor under this Contract, and during the period of the suspension the Contractor shall not perform its services hereunder and the Port Authority shall have the right during said period to itself or by any third person or persons selected by it to perform said services of the Contractor using the equipment which is used by the Contractor in its operations hereunder as the Port Authority deems necessary and without cost to the Port Authority. During such time of suspension, the Contractor shall not be entitled to any compensation. Any flat fees, including management fees, shall be prorated. Prior to the exercise of such right by the Port Authority, it shall give the Contractor notice thereof, which notice may be oral. No exercise by the Port Authority of the rights granted to it in the above subparagraph shall be or be deemed to be a waiver of any rights of termination or revocation contained in this Contract or a waiver of any rights or remedies which may be available to the Port Authority under this Contract or otherwise.

- b. During the time that the Contractor is performing the Contract, other persons may be engaged in other operations on or about the worksite including Facility operations, pedestrian, bus and vehicular traffic and other Contractors performing at the worksite, all of which shall remain uninterrupted.

The Contractor shall so plan and conduct its operations as to work in harmony with others engaged at the site and not to delay, endanger or interfere with the operation of others (whether or not specifically mentioned above), all to the best interests of the Port Authority and the public as may be directed by the Port Authority.

10. Claims of Third Persons

The Contractor undertakes to pay all claims lawfully made against it by subcontractors, suppliers and workers, and all claims lawfully made against it by other third persons arising out of or in connection with

or because of the performance of this Contract and to cause all subcontractors to pay all such claims lawfully made against them.

11. No Third Party Rights

Nothing contained in this Contract is intended for the benefit of third persons, except to the extent that the Contract specifically provides otherwise by use of the words "benefit" or "direct right of action."

12. Provisions of Law Deemed Inserted

Each and every provision of law and clause required by law to be inserted in this Contract shall be deemed to be inserted herein and the Contract shall be read and enforced as though it were included therein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, the Contract shall forthwith be physically amended to make such insertion.

13. Costs Assumed By The Contractor

It is expressly understood and agreed that all costs of the Contractor of whatever kind or nature and whether imposed directly upon the Contractor under the terms and provisions hereof or in any other manner whatsoever because of the requirements of the operation of the service or otherwise under this Agreement shall be borne by the Contractor or without compensation or reimbursement from the Port Authority, except as specifically set forth in this Agreement. The entire and complete cost and expense of the Contractor's services and operations hereunder shall be borne solely by the Contractor and under no circumstances shall the Port Authority be liable to any third party (including the Contractor's employees) for any such costs and expenses incurred by the Contractor and under no circumstances shall the Port Authority be liable to the Contractor for the same, except as specifically set forth in this Section.

14. Default, Revocation or Suspension of Contract

a. If one or more of the following events shall occur:

1. If fire or other cause shall destroy all or a substantial part of the Facility.
2. If any governmental agency shall condemn or take a temporary or permanent interest in all or a substantial part of the Facility, or all of a part of the Port Authority's interest herein;

then upon the occurrence of such event or at any time thereafter during the continuance thereof, the Port Authority shall have the right on twenty-four (24) hours written notice to the Contractor to revoke this Contract, such revocation to be effective upon the date and time specified in such notice.

In such event this Contract shall cease and expire on the effective date of revocation as if said date were the date of the expiration of this Contract. Such revocation shall not, however, relieve the Contractor of any liabilities or obligations hereunder which shall have accrued on or prior to the effective date of revocation.

b. If one or more of the following events shall occur:

1. The Contractor shall become insolvent, or shall take the benefit of any present or future insolvency statute, or shall make a general assignment for the benefit of creditors, or file a voluntary petition in bankruptcy or a petition or answer seeking an arrangement or its reorganization or the readjustment of its indebtedness under the federal bankruptcy laws or under any other law or statute of the United States or of any State thereof, or consent to the appointment of a receiver, trustee, or liquidator of all or substantially all its property; or
2. By order or decree of a court the Contractor shall be adjudged bankrupt or an order shall be made approving a petition filed by any of the creditors, or, if the Contractor is a corporation,

by any of the stockholders of the Contractor, seeking its reorganization or the readjustment of its indebtedness under the federal bankruptcy laws or under any law or statute of the United States or of any State thereof; or

3. A petition under any part of the federal bankruptcy laws or an action under any present or future insolvency law or statute shall be filed against the Contractor and shall not be dismissed within thirty (30) days after the filing thereof; or
4. The interest of the Contractor under this Contract shall be transferred to, passed to or devolve upon, by operation of law or otherwise, any other person, firm or corporation, or
5. The Contractor, if a corporation, shall, without the prior written approval of the Port Authority, become a surviving or merged corporation in a merger, a constituent corporation in a consolidation, or a corporation in dissolution; or
6. If the Contractor is a partnership, and the said partnership shall be dissolved as the result of any act or omission of its copartners or any of them, or by operation of law or the order or decree of any court having jurisdiction, or for any other reason whatsoever; or
7. By or pursuant to, or under authority of any legislative act, resolution or rule, or any order or decree of any court or governmental board, agency or officer having jurisdiction, a receiver, trustee, or liquidator shall take possession or control of all or substantially all of the property of the Contractor and such possession or control of all or substantially all of the property of the Contractor and shall continue in effect for a period of fifteen (15) days;

then upon the occurrence of any such event or at any time thereafter during the continuance thereof, the Port Authority shall have the right upon five (5) days notice to the Contractor to terminate this Contract and the rights of the Contractor hereunder; termination to be effective upon the date and time specified in such notice as if said date were the date of the expiration of this Contract. Termination shall not relieve the Contractor of any liabilities or obligations hereunder which have accrued on or prior to the effective date of termination.

c. If any of the following shall occur:

1. The Contractor shall cease, abandon any part of the service, desert, stop or discontinue its services in the premises for any reason whatsoever and regardless of the fault of the Contractor; or
2. The Contractor shall fail to keep, perform and observe each and every other promise, covenant and agreement set forth in this Contract on its part to be kept, performed or observed, within five (5) days after receipt of notice of default thereunder from the Port Authority (except where fulfillment of its obligations requires activity over a greater period of time, and the Contractor shall have commenced to perform whatever may be required for fulfillment within five (5) days after receipt of notice and continues such performance without interruption except for causes beyond its control);

then upon the occurrence of any such event or during the continuance thereof, the Port Authority shall have the right on twenty four (24) hours notice to the Contractor to terminate this Contract and the rights of the Contractor hereunder, termination to be effective upon the date and time specified in such notice. Termination shall not relieve the Contractor of any liabilities which shall have accrued on or prior to the effective date of termination.

d. If any of the events enumerated in this Section shall occur prior to commencement date of this Contract the Port Authority upon the occurrence of any such event or any time thereafter during the continuance thereof by twenty-four (24) hours notice may terminate or suspend this Contract and the rights of the Contractor hereunder, such termination or suspension to be effective upon the date specified in such notice.

- e. No payment by the Port Authority of any monies to the Contractor for any period or periods after default of any of the terms, covenants or conditions hereof to be performed, kept and observed by the Contractor and no act or thing done or omitted to be done by the Port Authority shall be deemed to be a waiver of the right of the Port Authority to terminate this Contract or of any other right or remedies to which the Port Authority may be entitled because of any breach thereof. No waiver by the Port Authority of any default on the part of the Contractor in the performance of any of the terms, covenants and conditions hereof to be performed, kept or observed by the Contractor shall be or be construed to be a waiver by the Port Authority of any other subsequent default in the performance of any of the said terms, covenants and conditions.
- f. In addition to all other rights of revocation or termination hereunder and notwithstanding any other provision of this Contract the Port Authority may terminate this Contract and the rights of the Contractor hereunder without cause at any time upon five (5) days written notice to the Contractor and in such event this Contract shall cease and expire on the date set forth in the notice of termination as fully and completely as though such dates were the original expiration date hereof and if such effective date of termination is other than the last day of the month, the amount of the compensation due to the Contractor from the Port Authority shall be prorated when applicable on a daily basis. Such cancellation shall be without prejudice to the rights and obligations of the parties arising out of portions already performed but no allowance shall be made for anticipated profits.
- g. Any right of termination contained in this paragraph, shall be in addition to and not in lieu of any and all rights and remedies that the Port Authority shall have at law or in equity consequent upon the Contractor's breach of this Contract and shall be without prejudice to any and all such other rights and remedies. It is hereby specifically agreed and understood that the exercise by the Port Authority of any right of termination set forth in this paragraph shall not be or be deemed to be an exercise by the Port Authority of an election of remedies so as to preclude the Port Authority from any right to money damages it may have for the period prior to the effective date of termination to the original expiration date of the Contract, and this provision shall be deemed to survive the termination of this Contract as aforesaid.
- h. If (1) the Contractor fails to perform any of its obligations under this Contract or any other agreement between the Port Authority and the Contractor (including its obligation to the Port Authority to pay any claim lawfully made against it by any supplier, subcontractor or worker or other person which arises out of or in connection with the performance of this Contract or any other agreement with the Port Authority) or (2) any claim (just or unjust) which arises out of or in connection with this Contract or any other agreement between the Port Authority and the Contractor is made against the Port Authority or (3) any subcontractor under this Contract or any other agreement between the Port Authority and the Contractor fails to pay any claims lawfully made against it by any supplier, subcontractor, worker or other third person which arises out of or in connection with this Contract or any other agreement between the Port Authority and the Contractor or if in the opinion of the Port Authority any of the aforesaid contingencies is likely to arise, then the Port Authority shall have the right, in its discretion, to withhold out of any payment (final or otherwise) such sums as the Port Authority may deem ample to protect it against delay or loss or to assure the payment of just claims of third persons, and to apply such sums in such manner as the Port Authority may deem proper to secure such protection or satisfy such claims. All sums so applied shall be deducted from the Contractor's compensation. Omission by the Port Authority to withhold out of any payment, final or otherwise, a sum for any of the above contingencies, even though such contingency has occurred at the time of such payment, shall not be deemed to indicate that the Port Authority does not intend to exercise its right with respect to such contingency. Neither the above provisions for rights of the Port Authority to withhold and apply monies nor any exercise or attempted exercise of, or omission to exercise, such rights by the Port Authority shall create any obligation of any kind to such supplier, subcontractors, worker or other third persons. If, however, the payment of any amount due the Contractor shall be improperly delayed, the Port

Authority shall pay the Contractor interest thereon at the rate of 6% per annum for the period of the delay, it being agreed that such interest shall be in lieu of and in liquidation of any damages to the Contractor because of such delay.

- i. If the Port Authority has paid any sum or has incurred any obligation or expense which the Contractor has agreed to pay or reimburse the Port Authority, or if the Port Authority is required or elects to pay any sum or sums or incurs any obligations or expense by reason of the failure, neglect or refusal of the Contractor to perform or fulfill any one or more of the conditions, covenants, or agreements contained in this Contract, or as a result of an act of omission of the Contractor contrary to the said conditions, covenants and agreements, the Contractor shall pay to the Port Authority the sum or sums so paid or expense so incurred, including all interests, costs and damages, promptly upon the receipt of the Port Authority's statement therefore. The Port Authority may, however, in its discretion, elect to deduct said sum or sums from any payment payable by it to the Contractor.
- j. If the Port Authority pays any installment to the Contractor without reducing said installment as provided in this Contract, it may reduce any succeeding installment by the proper amount, or it may bill the Contractor for the amount by which the installment paid should have been reduced and the Contractor shall pay to the Port Authority any such amount promptly upon receipt of the Port Authority's statement therefore.
- k. The Port Authority shall also have the rights set forth above in the event the Contractor shall become insolvent or bankrupt or if his affairs are placed in the hands of a receiver, trustee or assignee for the benefit of creditors.

15. Sales or Compensating Use Taxes

Purchases of services and tangible personal property by the Port Authority in the States of New York and New Jersey are generally exempt from state and local sales and compensating use taxes, and from most federal excises (Taxes). Therefore, the Port Authority's purchase of the Contractor's services under this Contract is exempt from Taxes. Accordingly, the Contractor must not include Taxes in the price charged to the Port Authority for the Contractor's services under this Contract. The Contractor certifies that there are no such taxes included in the prices for this Contract. The Contractor shall retain a copy of this Contract to substantiate the exempt sale.

The compensation set forth in this Agreement is the complete compensation to the Contractor, and the Port Authority will not separately reimburse the Contractor for any taxes unless specifically set forth in this Agreement.

16. No Estoppel or Waiver

The Port Authority shall not be precluded or estopped by any payment, final or otherwise, issued or made under this Contract, from showing at any time the true amount and character of the services performed, or from showing that any such payment is incorrect or was improperly issued or made; and the Port Authority shall not be precluded or estopped, notwithstanding any such payment, from recovering from the Contractor any damages which it may sustain by reason of any failure on its part to comply strictly with this Contract, and any moneys which may be paid to it or for its account in excess of those to which it is lawfully entitled.

No cancellation, rescission or annulment hereof, in whole or as to any part of the services to be provided hereunder, or because of any breach hereof, shall be deemed a waiver of any money damages to which the Port Authority may be entitled because of such breach. Moreover, no waiver by the Authority of any breach of this Contract shall be deemed to be a waiver of any other or any subsequent breach.

17. Records and Reports

The Contractor shall set up, keep and maintain (and shall cause its subcontractors to set up, keep and

maintain) in accordance with generally accepted accounting practice during the term of this Agreement and any extensions thereof and for three years after the expiration, termination or revocation thereof, records, payroll records and books of account (including, but not limited to, records of original entry and daily forms, payroll runs, cancelled checks, time records, union agreements, contracts with health, pension and other third party benefit providers) recording all transactions of the Contractor (and its subcontractors), at, through or in any way connected with or related to the operations of the Contractor (and its subcontractors) hereunder, including but not limited to all matters relating to the charges payable to the Contractor hereunder, all wages and supplemental benefits paid or provided to or for its employees (and its subcontractors' employees) and such additional information as the Port Authority may from time to time and at any time require, and also including, if appropriate, recording the actual number of hours of service provided under the Contract, and keeping separate records thereof which records and books of account shall be kept at all times within the Port District. The Contractor shall permit (and cause its subcontractors to permit) in ordinary business hours during the term of this Agreement including any extensions thereof and for three years thereafter the examination and audit by the officers, employees and representatives of the Port Authority of such records and books of account and also any records and books of account of any company which is owned or controlled by the Contractor, or which owns or controls the Contractor if said company performs services similar to those performed by the Contractor anywhere in the Port District. However, if within the aforesaid three year period the Port Authority has notified the Contractor in writing of a pending claim by the Port Authority under or in connection with this Contract to which any of the aforesaid records and documents of the Contractor or of its subcontractors relate either directly or indirectly, then the period of such right of access shall be extended to the expiration of six years from the date of final payment with respect to the records and documents involved.

Upon request of the Port Authority, the Contractor shall furnish or provide access to the federal Form I-9 (Employment Eligibility Verification) for each individual performing work under this Contract. This includes citizens and noncitizens.

The Contractor (and its subcontractors) shall, at its own expense, install, maintain and use such equipment and devices for recording the labor hours of the service as shall be appropriate to its business and necessary or desirable to keep accurate records of the same and as the general manager or the Facility Manager may from time to time require, and the Contractor (and its subcontractors) shall at all reasonable times allow inspection by the agents and employees of the Port Authority of all such equipment or devices.

- a. The Contractor hereby further agrees to furnish to the Port Authority from time to time such written reports in connection with its operations hereunder as the Port Authority may deem necessary or desirable. The format of all forms, schedules and reports furnished by the Contractor to the Port Authority shall be subject to the continuing approval of the Port Authority.
- b. No provision in this Contract giving the Port Authority a right of access to records and documents is intended to impair or affect any right of access to records and documents which they would have in the absence of such provision. Additional record keeping may be required under other sections of this Contract.

18. General Obligations

- a. Except where expressly required or permitted herein to be oral, all notices, requests, consents and approvals required to be given to or by either party shall be in writing and all such notices, requests, consents and approvals shall be personally delivered to the other party during regular business hours or forwarded to such party by United States certified mail, return receipt requested, addressed to the other party at its address hereinbefore or hereafter provided. Until further notice the Contractor hereby designates the address shown on the bottom of the Contractors Signature Sheet as their address to which such notices, requests, consents, or approvals may be forwarded. All notices, requests, consents, or approvals of the Contractor shall be forwarded to the Manager at the Facility.

- b. The Contractor shall comply with the provisions of all present and future federal, state and municipal laws, rules, regulations, requirements, ordinances, orders and directions which pertain to its operations under this Contract and which affect the Contract or the performance thereof and those engaged therein as if the said Contract were being performed for a private corporation, except where stricter requirements are contained in the Contract in which case the Contract shall control. The Contractor shall procure for itself all licenses, certificates, permits or other authorization from all governmental authorities, if any, having jurisdiction over the Contractor's operations hereunder which may be necessary for the Contractor's operations. The Contractor's obligation to comply with governmental requirements are not to be construed as a submission by the Port Authority to the application to itself of such requirements.
- c. The Contractor shall pay all taxes, license, certification, permit and examination fees and excises which may be assessed on its property or operations hereunder or income therefrom, and shall make all applications, reports and returns required in connection therewith.
- d. The Contractor shall, in conducting its operations hereunder, take all necessary precautions to protect the general environment and to prevent environmental pollution, contamination, damage to property and personal injury. In the event the Contractor encounters material reasonably believed to be asbestos, polychlorinated biphenyl (PCB) or any other hazardous material, in conducting its operations hereunder, the Contractor shall immediately stop Work in the area affected and report the condition in writing to the Manager. Work in the affected area shall not thereafter be resumed by the Contractor except upon the issuance of a written order to that effect from the Manager.
- e. The Contractor shall promptly observe, comply with and execute the provisions of any and all present and future rules and regulations, requirements, standard orders and directions of the American Insurance Association, the Insurance Services Office, National Fire Protection Association, and any other body or organization exercising similar functions which may pertain or apply to the Contractor's operations hereunder.

The Contractor shall not do or permit to be done any act which:

- 1. will invalidate or be in conflict with any fire insurance policies covering the Facility or any part thereof or upon the contents of any building thereon; or
 - 2. will increase the rate of any fire insurance, extended coverage or rental insurance on the Facility or any part thereof or upon the contents of any building thereon; or
 - 3. in the opinion of the Port Authority will constitute a hazardous condition, so as to increase the risk normally attendant upon the operations contemplated by this Contract; or
 - 4. may cause or produce in the premises, or upon the Facility any unusual, noxious or objectionable smoke, gases, vapors, odors; or
 - 5. may interfere with the effectiveness or accessibility of the drainage and sewerage system, fire protection system, sprinkler system, alarm system, fire hydrants and hoses, if any, installed or located or to be installed or located in or on the Facility; or
 - 6. shall constitute a nuisance in or on the Facility or which may result in the creation, commission or maintenance of a nuisance in or on the Facility.
- f. If by reason of the Contractor's failure to comply with the provisions of this Section and provided the Port Authority has given the Contractor five (5) days written notice of its failure and the Contractor shall not have cured said failure within said five (5) days, any fire insurance, extended coverage or rental insurance rate on the Facility or any part thereof or upon the contents of any building thereon shall at any time be higher than it otherwise would be, then the Contractor shall on demand pay the Port Authority that part of all fire insurance, extended coverage or rental insurance premiums paid or payable by the Port Authority which shall have been charged because of such violations by the Contractor.
 - g. The Contractor shall conduct its operations hereunder so as not to endanger, unreasonably interfere with, or delay the operations or activities of any tenants or occupants on the premises or the Facility and, moreover, shall use the same degree of care in performance on the premises as would be required by law of the Port Authority and shall conduct operations hereunder in a courteous, efficient and safe

manner.

- h. The Contractor shall provide such equipment and medical facilities as may be necessary to supply first aid service in case of accidents to its personnel who may be injured in the furnishing of service hereunder. The Contractor shall maintain standing arrangements for the removal and hospital treatment of any of its personnel who may be injured.

19. Assignments and Subcontracting

- a. The Contractor shall not sell, transfer, mortgage, pledge, subcontract or assign this Contract or any part thereof or any of the rights granted hereunder or any moneys due or to become due to it hereunder or enter into any contract requiring or permitting the doing of anything hereunder by an independent Contractor, without the prior written approval of the Port Authority, and any such sale, transfer, mortgage, pledge, subcontract, assignment or contract without such prior written approval shall be void as to the Port Authority.
- b. All subcontractors who provide permanent personnel to the Contractor for work under this Contract shall be given written notice to comply with all requirements of the Contract. The Contractor shall be responsible and liable for the performance and acts of each subcontractor.
- c. All persons to whom the Contractor sublets services shall be deemed to be its agents and no subletting or approval thereof shall be deemed to release this Contractor from its obligations under this Contract or to impose any obligations on the Port Authority to such subcontractor or to give the subcontractor any rights against the Port Authority.

20. Indemnification and Risks Assumed By The Contractor

To the extent permitted by law, the Contractor shall indemnify and hold harmless the Port Authority, its Commissioners, officers, representatives and employees from and against all claims and demands, just or unjust, of third persons (including Contractor's employees, employees, officers, and agents of the Port Authority) arising out of or in any way connected or alleged to arise out of or alleged to be in any way connected with the Contract and all other services and activities of the Contractor under this Contract and for all expenses incurred by it and by them in the defense, settlement or satisfaction thereof, including without limitation thereto, claims and demands for death, for personal injury or for property damage, direct or consequential, whether they arise from the acts or omissions of the Contractor, the Port Authority, third persons (including Contractor's employees, employees, officers, and agents of the Port Authority), or from the acts of God or the public enemy, or otherwise, including claims and demands of any local jurisdiction against the Port Authority in connection with this Contract.

The Contractor assumes the following risks, whether such risks arise from acts or omissions (negligent or not) of the Contractor, the Port Authority or third persons (including Contractor's employees, employees, officers, and agents of the Port Authority) or from any other cause, excepting only risks occasioned solely by affirmative willful acts of the Port Authority done subsequent to the opening of proposals on this Contract, and shall to the extent permitted by law indemnify the Port Authority for all loss or damage incurred in connection with such risks:

- a. The risk of any and all loss or damage to Port Authority property, equipment (including but not limited to automotive and/or mobile equipment), materials and possessions, on or off the premises, the loss or damage of which shall arise out of the Contractor's operations hereunder. The Contractor shall if so directed by the Port Authority, repair, replace or rebuild to the satisfaction of the Port Authority, any and all parts of the premises or the Facility which may be damaged or destroyed by the acts or omissions of the Contractor, its officers, agents, or employees and if the Contractor shall fail so to repair, replace, or rebuild with due diligence the Port Authority may, at its option, perform any of the foregoing work and the Contractor shall pay to the Port Authority the cost thereof.
- b. The risk of any and all loss or damage of the Contractor's property, equipment (including but not limited to automotive and/or mobile equipment) materials and possessions on the Facility.

- c. The risk of claim, whether made against the Contractor or the Port Authority, for any and all loss or damages occurring to any property, equipment (including but not limited to automotive and/or mobile equipment), materials and possessions of the Contractor's agents, employees, materialmen and others performing work hereunder.
- d. The risk of claims for injuries, damage or loss of any kind just or unjust of third persons arising or alleged to arise out of the performance of work hereunder, whether such claims are made against the Contractor or the Port Authority.

If so directed, the Contractor shall at its own expense defend any suit based upon any such claim or demand, even if such suit, claim or demand is groundless, false or fraudulent, and in handling such shall not, without obtaining express advance permission from the General Counsel of the Port Authority, raise any defense involving in any way the jurisdiction of the tribunal over the person of the Port Authority, the immunity of the Port Authority, its Commissioners, officers, agents or employees, the governmental nature of the Port Authority or the provision of any statutes respecting suits against the Port Authority.

Neither the requirements of the Port Authority under this Contract, nor of the Port Authority of the methods of performance hereunder nor the failure of the Port Authority to call attention to improper or inadequate methods or to require a change in the method of performance hereunder nor the failure of the Port Authority to direct the Contractor to take any particular precaution or other action or to refrain from doing any particular thing shall relieve the Contractor of its liability for injuries to persons or damage to property or environmental impairment arising out of its operations.

21. Approval of Methods

Neither the approval of the Port Authority of the methods of furnishing services hereunder nor the failure of the Port Authority to call attention to improper or inadequate methods or to require a change in the method of furnishing services hereunder, nor the failure of the Port Authority to direct the Contractor to take any particular precautions or to refrain from doing any particular thing shall relieve the Contractor of its liability for injuries to persons or damage to property or environmental impairment arising out of its operations.

22. Safety and Cleanliness

- a. The Contractor shall, in the furnishing of services hereunder, exercise every precaution to prevent injury to person or damage to property or environmental impairment and avoid inconvenience to the occupants of or any visitors to the Facility. The Contractor shall, without limiting the generality hereof, place such personnel, erect such barricades and railings, give such warnings, display such lights, signals or signs, place such cones and exercise precautions as may be necessary, proper or desirable.
- b. The Contractor shall in case of unsafe floor conditions due to construction, wetness, spillage, sickness and all other types of hazardous conditions proceed to rope off the unsafe area and place appropriate warnings signs to prevent accidents from occurring. The Contractor shall clean said area to the satisfaction of the Manager.
- c. The Contractor shall at all times maintain in a clean and orderly condition and appearance any and all facilities provided by the Port Authority for the Contractor's operations, and all fixtures, sink closets, equipment, and other personal property of the Port Authority which are located in said facilities.

23. Accident Reports

The Contractor shall promptly report in writing to the Manager of the Facility and to the Deputy Chief, Litigation Management of the Port Authority all accidents whatsoever arising out of or in connection with its operations hereunder and which result in death or injury to persons or damage to property, setting forth such details thereof as the Port Authority may desire. In addition, if death or serious injury or serious

damage is caused, such accidents shall be immediately reported by telephone to the aforesaid representatives of the Port Authority.

24. Trash Removal

The Contractor shall remove daily from the Facility by means provided by the Contractor all garbage, debris and other waste material (solid or liquid) arising out of or in connection with its operations hereunder, and any such garbage, debris and other waste material not immediately removed shall be temporarily stored in a clear and sanitary condition, approved by the Facility Manager and shall be kept covered except when filling or emptying them. The Contractor shall exercise care in removing such garbage, debris and other waste materials from the Facility. The manner of such storage and removal shall always be subject in all respects to the continual approval of the Port Authority. No equipment or facilities of the Port Authority shall be used in such removal unless with its prior consent in writing. No such garbage, debris or other waste materials shall be or be permitted to be thrown, discharged or disposed into or upon the waters at or bounding the Facility.

25. Lost and Found Property

The Contractor shall instruct its personnel that all items of personal property found by the Contractor's employees at the Site must be turned in to the Port Authority and a receipt will be issued therefor.

26. Property of the Contractor

- a. All property of the Contractor at the Site by virtue of this Contract shall be removed on or before the expiration or sooner termination or revocation of this Contract.
- b. If the Contractor shall fail to remove its property upon the expiration, termination or revocation of this Contract the Port Authority may, at its option, dispose of such property as waste or as agent for the Contractor and at the risk and expense of the Contractor, remove such property to a public warehouse, or may retain the same in its own possession, and in either event after the expiration of thirty (30) days may sell the same in accordance with any method deemed appropriate; the proceeds of any such sale shall be applied first, to the expenses of sale and second, to any sums owed by the Contractor to the Port Authority; any balance remaining shall be paid to the Contractor. Any excess of the total cost of removal, storage and sale and other costs incurred by the Port Authority as a result of such failure of performance by the Contractor over the proceeds of sale shall be paid by the Contractor to the Port Authority upon demand.

27. Modification of Contract

This Contract may not be changed except in writing signed by the Port Authority and the Contractor. The Contractor agrees that no representation or warranties shall be binding upon the Port Authority unless expressed in writing in this Contract.

28. Invalid Clauses

If any provision of this Contract shall be such as to destroy its mutuality or to render it invalid or illegal, then, if it shall not appear to have been so material that without it the Contract would not have been made by the parties, it shall not be deemed to form part thereof but the balance of the Contract shall remain in full force and effect.

29. Approval of Materials, Supplies and Equipment

Only Port Authority approved materials, supplies, and equipment are to be used by the Contractor in performing the Work hereunder. Inclusion of chemical containing materials or supplies on the Port Authority Approved Products List – Environmental Protection Supplies constitutes approval. The list may be revised from time to time and at any time by the Port Authority and it shall be incumbent upon the Contractor to obtain the most current list from the Manager of the Facility.

At anytime during the Solicitation, pre-performance or performance periods, the Contractor may propose the use of an alternate product or products to those on the Approved Products List – Environmental Protection Supplies, which product(s) shall be subject to review and approval by the Port Authority. Any alternate product so approved by the Port Authority may be used by the Contractor in performing the Services hereunder. Until such approval is given, only products on the Approved Products List – Environmental Protection Supplies may be used.

30. Intellectual Property

The right to use all patented materials, appliances, processes of manufacture or types of construction, trade and service marks, copyrights and trade secrets, collectively hereinafter referred to as “Intellectual Property Rights”, in the performance of the work, shall be obtained by the Contractor without separate or additional compensation. Where the services under this Agreement require the Contractor to provide materials, equipment or software for the use of the Port Authority or its employees or agents, the Port Authority shall be provided with the Intellectual Property Rights required for such use without further compensation than is provided for under this Agreement.

The Contractor shall indemnify the Port Authority against and save it harmless from all loss and expense incurred as a result of any claims in the nature of Intellectual Property Rights infringement arising out of the Contractor’s or Port Authority’s use, in accordance with the above immediately preceding paragraph, of any Intellectual Property. The Contractor, if requested, shall conduct all negotiations with respect to and defend such claims. If the Contractor or the Port Authority, its employees or agents be enjoined either temporarily or permanently from the use of any subject matter as to which the Contractor is to indemnify the Port Authority against infringement, then the Port Authority may, without limiting any other rights it may have, require the Contractor to supply temporary or permanent replacement facilities approved by the Manager, and if the Contractor fails to do so the Contractor shall, at its expense, remove all such enjoined facilities and refund the cost thereof to the Port Authority or take such steps as may be necessary to insure compliance by the Contractor and the Port Authority with said injunction, to the satisfaction of the Port Authority.

In addition, the Contractor shall promptly and fully inform the Director in writing of any intellectual property rights disputes, whether existing or potential, of which it has knowledge, relating to any idea, design, method, material, equipment or any other matter related to the subject matter of this Agreement or coming to its attention in connection with this Agreement.

31. Contract Records and Documents – Passwords and Codes

When the performance of the contract services requires the Contractor to produce, compile or maintain records, data, drawings, or documents of any kind, regardless of the media utilized, then all such records, drawings, data and documents which are produced, prepared or compiled in connection with this contract, shall become the property of the Port Authority, and the Port Authority shall have the right to use or permit the use of them and any ideas or methods represented by them for any purpose and at any time without other compensation than that specifically provided herein.

When in the performance of the contract services the Contractor utilizes passwords or codes for any purpose, at any time during or after the performance of such services, upon written request by

the Authority, the Contractor shall make available to the designated Authority representative all such passwords and codes.

32. Designated Secure Areas

Services under the Contract may be required in designated secure areas, as the same may be designated by the Manager from time to time (“Secure Areas”). The Port Authority shall require the observance of certain security procedures with respect to Secure Areas, which may include the escort to, at, and/or from said high security areas by security personnel designated by the Contractor or any subcontractor’s personnel required to work therein. All personnel that require access to designated secure areas who are not under positive escort by an authorized individual will be required to undergo background screening and personal identity verification.

Forty-eight (48) hours prior to the proposed performance of any work in a Secure Area, the Contractor shall notify the Manager. The Contractor shall conform to the procedures as may be established by the Manager from time to time and at any time for access to Secure Areas and the escorting of personnel hereunder. Prior to the start of work, the Contractor shall request a description from the Manager of the Secure Areas which will be in effect on the commencement date. The description of Secure Areas may be changed from time to time and at any time by the Manager during the term of the Contract.

33. Notification of Security Requirements

The Authority has the responsibility of ensuring safe, reliable and secure transportation facilities, systems, and projects to maintain the well-being and economic competitiveness of the region. Therefore, the Authority reserves the right to deny access to certain documents, sensitive security construction sites and facilities (including rental spaces) to any person that declines to abide by Port Authority security procedures and protocols, any person with a criminal record with respect to certain crimes or who may otherwise poses a threat to the construction site or facility security. The Authority reserves the right to impose multiple layers of security requirements on the Contractor, its staff and subcontractors and their staffs depending upon the level of security required, or may make any amendments with respect to such requirements as determined by the Authority.

These security requirements may include but are not limited to the following:

- Contractor/ Subcontractor identity checks and background screening

The Port Authority’s designated background screening provider may require inspection of not less than two forms of valid/current government issued identification (at least one having an official photograph) to verify staff’s name and residence; screening federal, state, and/or local criminal justice agency information databases and files; screening of any terrorist identification files; access identification to include some form of biometric security methodology such as fingerprint, facial or iris scanning, or the like.

The Contractor may be required to have its staff, and any subcontractor’s staff, material-men, visitors or others over whom the Contractor/subcontractor has control, authorize the Authority or its designee to perform background checks, and a personal identity verification check. Such authorization shall be in a form acceptable to the Authority. The Contractor and subcontractors may also be required to use an organization designated by the Authority to perform the background checks.

As of January 29, 2007, the Secure Worker Access Consortium (S.W.A.C.) is the only Port Authority approved provider to be used to conduct background screening and personal identity verification, except as otherwise required by federal law and/or regulation (such as the Transportation Worker Identification Credential for personnel performing in secure areas at Maritime facilities). Information about S.W.A.C., instructions, corporate enrollment, online applications, and location of processing centers can be found at <http://www.secureworker.com>, or S.W.A.C. may be contacted directly at (877) 522-7922 for more information and the latest pricing. The cost for said background checks for staff that pass and are granted a credential shall be reimbursable to the Contractor (and its subcontractors) as an out-of-pocket expense

as provided herein. Staff that are rejected for a credential for any reason are not reimbursable.

- Issuance of Photo Identification Credential

No person will be permitted on or about the Authority construction site or facility (including rental spaces) without a facility-specific photo identification credential approved by the Authority. If the authority requires facility-specific identification credential for the Contractor's and the subcontractor's staff, the Authority will supply such identification at no cost to the Contractor or its subcontractors. Such facility-specific identification credential shall remain the property of the Authority and shall be returned to the Authority at the completion or upon request prior to completion of the individual's assignment at the specific facility. It is the responsibility of the appropriate Contractor or subcontractor to immediately report to the Authority the loss of any staff member's individual facility-specific identification credential. The Contractor or subcontractor shall be billed for the cost of the replacement identification credential. Contractor's and subcontractor's staff shall display Identification badges in a conspicuous and clearly visible manner, when entering, working or leaving an Authority construction site or facility.

Employees may be required to produce not less than two forms of valid/current government issued identification having an official photograph and an original, unlaminated social security card for identify and SSN verification. Where applicable, for sensitive security construction sites or facilities, successful completion of the application, screening and identify verification for all employees of the Contractor and subcontractors shall be completed prior to being provided a S.W.A.C. ID Photo Identification credential.

- Access control, inspection, and monitoring by security guards

The Authority may provide for Authority construction site or facility (including rental spaces) access control, inspection and monitoring by Port Authority Police or Authority retained contractor security guards. However, this provision shall not relieve the Contractor of its responsibility to secure its equipment and work and that of its subconsultant/subcontractor's and service suppliers at the Authority construction site or facility (including rental spaces). In addition, the Contractor, subcontractor or service provider is not permitted to take photographs, digital images, electronic copying and/or electronic transmission or video recordings or make sketches on any other medium at the Authority construction sites or facilities (including rental spaces), except when necessary to perform the Work under this Contract, without prior written permission from the Authority. Upon request, any photograph, digital images, video recording or sketches made of the Authority construction site or facility shall be submitted to the Authority to determine compliance with this paragraph, which submission shall be conclusive and binding on the submitting entity.

- Compliance with the Port Authority Information Security Handbook

The Contract may require access to Port Authority information considered Confidential Information ("CI") as defined in the Port Authority Information Security Handbook ("Handbook"), dated October, 2008, corrected as of February, 2009, and as may be further amended. The Handbook and its requirements are hereby incorporated into this agreement and will govern the possession, distribution and use of CI if at any point during the lifecycle of the project or solicitation it becomes necessary for the Contractor to have access to CI. Protecting sensitive information requires the application of uniform safeguarding measures to prevent unauthorized disclosure and to control any authorized disclosure of this information within the Port Authority or when released by the Port Authority to outside entities. The following is an outline of some of the procedures, obligations and directives contained in the Handbook:

- (1) require that the Contractor and subcontractors, when appropriate, sign Non-Disclosure Agreements (NDAs), or an Acknowledgment of an existing NDA, provided by the Authority as a condition of being granted access to Confidential Information categorized and protected as per the Handbook;
- (2) require that individuals needing access to CI be required to undergo a background check, pursuant to the process and requirements noted in § 3.2 of the Information Security Handbook.

- (3) require Contractors and commercial enterprises to attend training to ensure security awareness regarding Port Authority information;
- (4) specific guidelines and requirements for the handling of CI to ensure that the storage and protection of CI;
- (5) restrictions on the transfer, shipping, and mailing of CI information;
- (6) prohibitions on the publication, posting, modifying, copying, reproducing, republishing, uploading, transmitting, or distributing CI on websites or web pages. This may also include restricting persons, who either have not passed a pre-screening background check, or who have not been granted access to CI, from viewing such information;
- (7) require that CI be destroyed using certain methods, measures or technology pursuant to the requirements set forth in the Handbook;
- (8) require the Contractor to mandate that each of its subcontractors maintain the same levels of security required of the Contractor under any Port Authority awarded contract.
- (9) prohibit the publication, exchange or dissemination of CI developed from the project or contained in reports, except between Contractors and subcontractors, without prior approval of the Port Authority;
- (10) require that CI only be reproduced or copied pursuant to the requirements set forth in the Handbook.

- Audits for Compliance with Security Requirements

The Port Authority may conduct random or scheduled examinations of business practices under this section entitled "NOTIFICATION OF SECURITY REQUIREMENTS" and the Handbook in order to assess the extent of compliance with security requirements, Confidential Information procedures, protocols and practices, which may include, but not be limited to, verification of background check status, confirmation of completion of specified training, and/or a site visit to view material storage locations and protocols.

34. Construction In Progress

The Contractor recognizes that construction may be in progress at the Facility and may continue throughout the term of this Contract. Notwithstanding, the Contractor shall at all times during the term hereof maintain the same standards of performance and cleanliness as prevails in non-affected areas as required by the standards hereunder.

35. Permit-Required Confined Space Work

Prior to commencement of any work, the Contractor shall request and obtain from the Port Authority a description of all spaces at the facility which are permit-required confined spaces requiring issuance of an OSHA permit.

Prior to the commencement of any work in a permit-required confined space at a Port Authority facility requiring issuance of an OSHA permit, the Contractor shall contact the Manager to obtain an Authority Contractor Permit-Required Confined Space Notification form. The notification form must be filled out and submitted prior to commencing permit-required confined space work. All confined space work shall be performed in accordance with all applicable OSHA requirements. The Contractor shall provide its employees with a copy of its own company permit and shall furnish the Port Authority with a copy of the permit upon completion of the work. The Contractor must supply all equipment required for working in a confined space.

36. Signs

Except with the prior written approval of the Port Authority, the Contractor shall not erect, maintain or display any signs or posters or any advertising on or about the Facility.

37. Vending Machines, Food Preparation

The Contractor shall not install, maintain or operate on the Facility, or on any other Port Authority property, any vending machines without the prior written approval of the Port Authority. No foods or beverages shall be prepared or consumed at the Facility by any of the Contractor's employees except in areas as may be specifically designated by the Port Authority for such purpose.

38. Confidential Information/Non-Publication

a. As used herein, confidential information shall mean all information disclosed to the Contractor or the personnel provided by the Contractor hereunder which relates to the Authority's and/or PATH's past, present, and future research, development and business activities including, but not limited to, software and documentation licensed to the Authority or proprietary to the Authority and/or PATH and all associated software, source code procedures and documentation. Confidential information shall also mean any other tangible or intangible information or materials including but not limited to computer identification numbers, access codes, passwords, and reports obtained and/or used during the performance of the Contractor's Services under this Contract.

b. Confidential information shall also mean and include collectively, as per *The Port Authority of New York & New Jersey Information Security Handbook (October 15, 2008, corrected as of February, 9 2009)*, Confidential Proprietary Information, Confidential Privileged Information and information that is labeled, marked or otherwise identified by or on behalf of the Authority so as to reasonably connote that such information is confidential, privileged, sensitive or proprietary in nature. Confidential Information shall also include all work product that contains or is derived from any of the foregoing, whether in whole or in part, regardless of whether prepared by the Authority or a third-party or when the Authority receives such information from others and agrees to treat such information as Confidential.

c. The Contractor shall hold all such confidential information in trust and confidence for the Authority, and agrees that the Contractor and the personnel provided by the Contractor hereunder shall not, during or after the termination or expiration of this Contract, disclose to any person, firm or corporation, nor use for its own business or benefit, any information obtained by it under or in connection with the supplying of services contemplated by this Contract. The Contractor and the personnel provided by the Contractor hereunder shall not violate in any manner any patent, copyright, trade secret or other proprietary right of the Authority or third persons in connection with their services hereunder, either before or after termination or expiration of this Contract. The Contractor and the personnel provided by the Contractor hereunder shall not willfully or otherwise perform any dishonest or fraudulent acts, breach any security procedures, or damage or destroy any hardware, software or documentation, proprietary or otherwise, in connection with their services hereunder. The Contractor shall promptly and fully inform the Director in writing of any patent, copyright, trade secret or other intellectual property rights or disputes, whether existing or potential, of which the Contractor has knowledge, relating to any idea, design, method, material, equipment or other matter related to this Contract or coming to the Contractor's attention in connection with this Contract."

d. The Contractor shall not issue nor permit to be issued any press release, advertisement, or literature of any kind, which refers to the Port Authority or to the fact that goods have been, are being or will be

provided to it and/or that services have been, are being or will be performed for it in connection with this Agreement, unless the vendor first obtains the written approval of the Port Authority. Such approval may be withheld if for any reason the Port Authority believes that the publication of such information would be harmful to the public interest or is in any way undesirable.

39. Time is of the Essence

Time is of the essence in the Contractor’s performance of this Contract inasmuch as the Work to be performed will affect the operation of public facilities.

40. Holidays

The following holidays will be observed at the Site:

- | | |
|----------------------------|------------------------|
| New Year's Day | Labor Day |
| Martin Luther King Jr. Day | Columbus Day |
| Presidents Day | Veterans Day |
| Memorial Day | Thanksgiving Day |
| Independence Day | Day After Thanksgiving |
| Christmas Day | |

This list is subject to periodic revision and the Contractor shall be responsible for obtaining all updated lists from the office of the Manager. If any such holiday falls on a Sunday then the next day shall be considered the holiday and/or if any such holiday falls on a Saturday then the preceding day shall be considered the holiday.

41. Personnel Standards

In addition to any specific personnel requirements that may be required under the clause entitled “Personnel Requirements” in the Specifications, the Contractor (and any Subcontractor) shall furnish competent and adequately trained personnel to perform the Work hereunder. If, in the opinion of the Manager, any employee so assigned is performing their functions unsatisfactorily, they shall be replaced by the Contractor within twenty-four (24) hours following the Contractor’s receipt of the Manager’s request for such replacement.

All Contractor's employees performing Work hereunder shall have the ability to communicate in the English language to the extent necessary to comprehend directions given by either the Contractor's supervisory staff or by the Manager's staff. Any employee operating a motor vehicle must have a valid driver's license.

The Contractor shall verify that employees working under this Contract in the United States are legally present in the United States and authorized to work by means of the federally required I-9 program

42. General Uniform Requirements for Contractor’s Personnel

In addition to any specific uniform requirements that may be required by the Specifications, uniforms must be worn at all times during which the Services are being performed hereunder. The Contractor agrees that his/her employees will present a neat, clean and orderly appearance at all times. Uniforms shall include the Contractor’s identification badge with picture ID bearing the employee’s name. All uniforms, colors, types and styles shall be subject to the prior approval of the Manager. The Contractor will also be responsible for ensuring that its employees are wearing shoes appropriate for the tasks performed. The Manager shall have the right to require removal of any employee who shall fail to wear the proper uniform and shoes, and the exercise of this right shall not limit the obligation of the Contractor to perform the Services or to furnish any

required number of employees at a specific location at the Site as specified.

43. Labor, Equipment and Materials Supplied by the Contractor

The Contractor shall, at all times during the performance of this Contract, furnish all necessary labor, supervision, equipment and materials necessary for the prompt and efficient performance of the Work, whether such materials and equipment are actually employed in the furnishing of the Work or whether incidental thereto.

All materials used by the Contractor in furnishing Work hereunder shall be of such quality as to accomplish the purposes of this Contract and the Services to be furnished hereunder in such manner so as not to damage any part of the Site.

The Port Authority by its officers, employees and representatives shall have the right at all times to examine the supplies, materials and equipment used by the Contractor, to observe the operations of the Contractor, its agents, servants and employees and to do any act or thing which the Port Authority may be obligated or have the right to do under this Contract or otherwise.

All equipment, materials and supplies used in the performance of this Contract required hereunder shall be used in accordance with their manufacturer's instructions.

Materials and supplies to be provided by the Contractor hereunder shall comply with OSHA and all applicable regulations.

44. Contractor's Vehicles – Parking - Licenses

At the discretion of the Manager, the Port Authority may permit the Contractor during the effective period of this Contract to park vehicle(s) used by it in its operations hereunder in such location as may from time to time or at any time be designated by the Manager. The Contractor shall comply with such existing rules, regulations and procedures as are now in force and such reasonable future rules, regulations and procedures as may hereafter be adopted by the Port Authority for the safety and convenience of persons who park automotive vehicles in any parking area at the Site or for the safety and proper persons who park automotive vehicles in any parking area at the Site or for the safety and proper identification of such vehicles, and the Contractor shall also comply with any and all directions pertaining to such parking which may be given from time to time and at any time by the Manager. Any vehicle used by the Contractor hereunder shall be marked or placarded, identifying it as the Contractor's vehicle.

45. Manager's Authority

In the performance of the Work hereunder, the Contractor shall conform to all orders, directions and requirements of the Manager and shall perform the Work hereunder to the satisfaction of the Manager at such times and places, by such methods and in such manner and sequence as he/she may require, and the Contract shall at all stages be subject to his/her inspection. The Manager shall determine the amount, quality, acceptability and fitness of all parts of the Work and shall interpret the Specifications and any orders for Extra Work. The Contractor shall employ no equipment, materials, methods or staff or personnel to which the Manager objects. Upon request, the Manager shall confirm in writing any oral order, direction, requirement or determination.

The Manager shall have the authority to decide all questions in connection with the Services to be performed hereunder. The exercise by the Manager of the powers and authorities vested in him/her by this section shall be binding and final upon the Port Authority and the Contractor.

46. Price Preference

If this solicitation has not been set aside for the purposes of making an award based on bids solicited from Port Authority certified Minority Business, Women Business or Small Business Enterprises as indicated by the bidder pre-requisites in Part II hereof, for awards of contracts, not exceeding \$1,000,000, for:

- (a) Services, a price preference of 5% is available for New York or New Jersey Small Business Enterprises (SBE); or
- (b) Services (excluding Janitorial/Cleaning Services), a price preference of 10% is available for New York or New Jersey Minority or Women Business Enterprises (M/WBE),

certified by the Port Authority by the day before the bid opening.

If the Bidder is a Port Authority certified MBE, WBE or SBE, enter the applicable date(s) certification was obtained in the space provided on the Signature Sheet attached hereto.

47. M/WBE Good Faith Participation

If specified as applicable to this Contract, the Contractor shall use every good-faith effort to provide for participation by certified Minority Business Enterprises (MBEs) and certified Women-owned Business Enterprises (WBEs) as herein defined, in all purchasing and subcontracting opportunities associated with this Contract, including purchase of equipment, supplies and labor services.

Good Faith efforts to include participation by MBEs/WBEs shall include the following:

- a. Dividing the services and materials to be procured into small portions, where feasible.
- b. Giving reasonable advance notice of specific contracting, subcontracting and purchasing opportunities to such MBEs/WBEs as may be appropriate.
- c. Soliciting services and materials from a Port Authority certified MBE/WBE or seeking MBEs/WBEs from other sources. To access the Port Authority's Directory of MBE/WBE Certified Firms go to www.panynj.gov/supplierdiversty
- d. Ensuring that provision is made to provide progress payments to MBEs/WBEs on a timely basis.
- e. Observance of reasonable commercial standards of fair dealing in the respective trade or business.

Subsequent to Contract award, all changes to the M/WBE Participation Plan must be submitted via a modified M/WBE Participation Plan to the Manager for review and approval by the Authority's Office of Business Diversity and Civil Rights. For submittal of modifications to the M/WBE Plan, Contractors are directed to use form PA3749C, which may be downloaded at <http://www.panynj.gov/business-opportunities/become-vendor.html>. The Contractor shall not make changes to its approved M/WBE Participation Plan or substitute M/WBE subcontractors or suppliers for those named in their approved plan without the Manager's prior written approval. Unauthorized changes or substitutions, including performing the work designated for a subcontractor with the Contractor's own forces, shall be a violation of this section. Progress toward attainment of M/WBE participation goals set forth herein will be monitored throughout the duration of this Contract.

The Contractor shall also submit to the Manager, along with invoices, the Statement of Subcontractor Payments as the M/WBE Participation Report, which may be downloaded at <http://www.panynj.gov/business-opportunities/become-vendor.html>. The Statement must include the name and business address of each M/WBE subcontractor and supplier actually involved in the Contract, a description of the work performed and/or product or service supplied by each such subcontractor or supplier, the date and amount of each expenditure, and such other information that may assist the Manager in determining the Contractor's compliance with the foregoing provisions.

If, during the performance of this Contract, the Contractor fails to demonstrate good faith efforts in carrying out its M/WBE Participation Plan and the Contractor has not requested and been granted a full or partial waiver of the M/WBE participation goals set forth in this Contract, the Authority will take into consideration the Contractor's failure to carry out its M/WBE Participation Plan in its evaluation for award of future Authority contracts.

PART III CONTRACTOR'S INTEGRITY PROVISIONS

1. Certification of No Investigation (criminal or civil anti-trust), Indictment, Conviction, Debarment, Suspension, Disqualification and Disclosure of Other Information

By bidding on this Contract, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, that the Bidder and each parent and/or affiliate of the Bidder has not

- a. been indicted or convicted in any jurisdiction;
- b. been suspended, debarred, found not responsible or otherwise disqualified from entering into any contract with any governmental agency or been denied a government contract for failure to meet standards related to the integrity of the Bidder;
- c. had a contract terminated by any governmental agency for breach of contract or for any cause based in whole or in part on an indictment or conviction;
- d. ever used a name, trade name or abbreviated name, or an Employer Identification Number different from those inserted in the Bid;
- e. had any business or professional license suspended or revoked or, within the five years prior to bid opening, had any sanction imposed in excess of \$50,000 as a result of any judicial or administrative proceeding with respect to any license held or with respect to any violation of a federal, state or local environmental law, rule or regulation;
- f. had any sanction imposed as a result of a judicial or administrative proceeding related to fraud, extortion, bribery, bid rigging, embezzlement, misrepresentation or anti-trust regardless of the dollar amount of the sanctions or the date of their imposition; and
- g. been, and is not currently, the subject of a criminal investigation by any federal, state or local prosecuting or investigative agency and/or a civil anti-trust investigation by any federal, state or local prosecuting or investigative agency.

2. Non-Collusive Bidding, and Code of Ethics Certification, Certification of No Solicitation Based On Commission, Percentage, Brokerage, Contingent or Other Fees

By bidding on this Contract, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, that

- a. the prices in its bid have been arrived at independently without collusion, consultation, communication or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;
- b. the prices quoted in its bid have not been and will not be knowingly disclosed directly or indirectly by the Bidder prior to the official opening of such bid to any other bidder or to any competitor;
- c. no attempt has been made and none will be made by the Bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition;
- d. this organization has not made any offers or agreements or taken any other action with respect to any Authority employee or former employee or immediate family member of either which would constitute a breach of ethical standards under the Code of Ethics dated April 11, 1996, (a copy of which is available upon request to the individual named in the clause hereof entitled

- "Bidder's Questions"), nor does this organization have any knowledge of any act on the part of an Authority employee or former Authority employee relating either directly or indirectly to this organization which constitutes a breach of the ethical standards set forth in said Code;
- e. no person or selling agency other than a bona fide employee or bona fide established commercial or selling agency maintained by the Bidder for the purpose of securing business, has been employed or retained by the Bidder to solicit or secure this Contract on the understanding that a commission, percentage, brokerage, contingent, or other fee would be paid to such person or selling agency; and
 - f. the bidder has not offered, promised or given, demanded or accepted, any undue advantage, directly or indirectly, to or from a public official or employee, political candidate, party or party official, or any private sector employee (including a person who directs or works for a private sector enterprise in any capacity), in order to obtain, retain, or direct business or to secure any other improper advantage in connection with this Contract.

The foregoing certifications shall be deemed to be made by the Bidder as follows:

- * if the Bidder is a corporation, such certification shall be deemed to have been made not only with respect to the Bidder itself, but also with respect to each parent, affiliate, director, and officer of the Bidder, as well as, to the best of the certifier's knowledge and belief, each stockholder of the Bidder with an ownership interest in excess of 10%;
- * if the Bidder is a partnership, such certification shall be deemed to have been made not only with respect to the Bidder itself, but also with respect to each partner.

Moreover, the foregoing certifications, if made by a corporate Bidder, shall be deemed to have been authorized by the Board of Directors of the Bidder, and such authorization shall be deemed to include the signing and submission of the bid and the inclusion therein of such certification as the act and deed of the corporation.

In any case where the Bidder cannot make the foregoing certifications, the Bidder shall so state and shall furnish with the signed bid a signed statement which sets forth in detail the reasons therefor. If the Bidder is uncertain as to whether it can make the foregoing certifications, it shall so indicate in a signed statement furnished with its bid, setting forth in such statement the reasons for its uncertainty. As a result of such disclosure, the Port Authority shall take appropriate action up to and including a finding of non-responsibility.

Failure to make the required disclosures shall lead to administrative actions up to and including a finding of non-responsibility.

Notwithstanding that the Bidder may be able to make the foregoing certifications at the time the bid is submitted, the Bidder shall immediately notify the Authority in writing during the period of irrevocability of bids on this Contract of any change of circumstances which might under this clause make it unable to make the foregoing certifications or require disclosure. The foregoing certifications or signed statement shall be deemed to have been made by the Bidder with full knowledge that they would become a part of the records of the Authority and that the Authority will rely on their truth and accuracy in awarding this Contract. In the event that the Authority should determine at any time prior or subsequent to the award of this Contract that the Bidder has falsely certified as to any material item in the foregoing certifications or has willfully or fraudulently furnished a signed statement which is false in any material respect, or has not fully and accurately represented any circumstance with respect to any item in the foregoing certifications required to be disclosed, the Authority may determine that the Bidder is not a responsible Bidder with respect to its bid on the Contract or with respect to future bids on Authority contracts and may exercise such other remedies as are provided to it by the Contract with respect to these matters. In addition, Bidders are advised that knowingly providing a false certification or statement pursuant hereto may be the basis for prosecution for offering a false instrument for filing (see e.g. New York Penal Law, Section 175.30 et seq.). Bidders are also advised that the inability to make such certification will not in and of itself disqualify a Bidder, and that in each instance the Authority

will evaluate the reasons therefor provided by the Bidder. Under certain circumstances the Bidder may be required as a condition of Contract award to enter into a Monitoring Agreement under which it will be required to take certain specified actions, including compensating an independent Monitor to be selected by the Port Authority, said Monitor to be charged with, among other things, auditing the actions of the Bidder to determine whether its business practices and relationships indicate a level of integrity sufficient to permit it to continue business with the Port Authority.

3. Bidder Eligibility for Award of Contracts - Determination by an Agency of the State of New York or New Jersey Concerning Eligibility to Receive Public Contracts

Bidders are advised that the Authority has adopted a policy to the effect that in awarding its contracts it will honor any determination by an agency of the State of New York or New Jersey that a Bidder is not eligible to bid on or be awarded public contracts because the Bidder has been determined to have engaged in illegal or dishonest conduct or to have violated prevailing rate of wage legislation.

The policy permits a Bidder whose ineligibility has been so determined by an agency of the State of New York or New Jersey to submit a bid on a Port Authority contract and then to establish that it is eligible to be awarded a contract on which it has bid because (i) the state agency determination relied upon does not apply to the Bidder, or (ii) the state agency determination relied upon was made without affording the Bidder the notice and hearing to which the Bidder was entitled by the requirements of due process of law, or (iii) the state agency determination was clearly erroneous or (iv) the state determination relied upon was not based on a finding of conduct demonstrating a lack of integrity or violation of a prevailing rate of wage law.

The full text of the resolution adopting the policy may be found in the Minutes of the Authority's Board of Commissioners meeting of September 9, 1993.

4. No Gifts, Gratuities, Offers of Employment, Etc.

During the term of this Contract, the Contractor shall not offer, give or agree to give anything of value either to a Port Authority employee, agent, job shopper, consultant, construction manager or other person or firm representing the Port Authority, or to a member of the immediate family (i.e., a spouse, child, parent, brother or sister) of any of the foregoing, in connection with the performance by such employee, agent, job shopper, consultant, construction manager or other person or firm representing the Port Authority of duties involving transactions with the Contractor on behalf of the Port Authority, whether or not such duties are related to this Contract or any other Port Authority contract or matter. Any such conduct shall be deemed a material breach of this Contract.

As used herein "anything of value" shall include but not be limited to any (a) favors, such as meals, entertainment, transportation (other than that contemplated by the Contract or any other Port Authority contract), etc. which might tend to obligate the Port Authority employee to the Contractor, and (b) gift, gratuity, money, goods, equipment, services, lodging, discounts not available to the general public, offers or promises of employment, loans or the cancellation thereof, preferential treatment or business opportunity. Such term shall not include compensation contemplated by this Contract or any other Port Authority contract. Where used herein, the term "Port Authority" shall be deemed to include all subsidiaries of the Port Authority.

The Contractor shall insure that no gratuities of any kind or nature whatsoever shall be solicited or accepted by it and by its personnel for any reason whatsoever from the passengers, tenants, customers or other persons using the Facility and shall so instruct its personnel.

In addition, during the term of this Contract, the Contractor shall not make an offer of employment or use confidential information in a manner proscribed by the Code of Ethics and Financial Disclosure dated April 11, 1996, (a copy of which is available upon request to the Office of the Secretary of the Port Authority).

The Contractor shall include the provisions of this clause in each subcontract entered into under this Contract.

5. Conflict of Interest

During the term of this Contract, the Contractor shall not participate in any way in the preparation, negotiation or award of any contract (other than a contract for its own services to the Authority) to which it is contemplated the Port Authority may become a party, or participate in any way in the review or resolution of a claim in connection with such a contract if the Contractor has a substantial financial interest in the contractor or potential contractor of the Port Authority or if the Contractor has an arrangement for future employment or for any other business relationship with said contractor or potential contractor, nor shall the Contractor at any time take any other action which might be viewed as or give the appearance of conflict of interest on its part. If the possibility of such an arrangement for future employment or for another business arrangement has been or is the subject of a previous or current discussion, or if the Contractor has reason to believe such an arrangement may be the subject of future discussion, or if the Contractor has any financial interest, substantial or not, in a contractor or potential contractor of the Authority, and the Contractor's participation in the preparation, negotiation or award of any contract with such a contractor or the review or resolution of a claim in connection with such a contract is contemplated or if the Contractor has reason to believe that any other situation exists which might be viewed as or give the appearance of a conflict of interest, the Contractor shall immediately inform the Director in writing of such situation giving the full details thereof. Unless the Contractor receives the specific written approval of the Director, the Contractor shall not take the contemplated action which might be viewed as or give the appearance of a conflict of interest. In the event the Director shall determine that the performance by the Contractor of a portion of its Services under this Agreement is precluded by the provisions of this numbered paragraph, or a portion of the Contractor's said Services is determined by the Director to be no longer appropriate because of such preclusion, then the Director shall have full authority on behalf of both parties to order that such portion of the Contractor's Services not be performed by the Contractor, reserving the right, however, to have the Services performed by others and any lump sum compensation payable hereunder which is applicable to the deleted work shall be equitably adjusted by the parties. The Contractor's execution of this document shall constitute a representation by the Contractor that at the time of such execution the Contractor knows of no circumstances, present or anticipated, which come within the provisions of this paragraph or which might otherwise be viewed as or give the appearance of a conflict of interest on the Contractor's part. The Contractor acknowledges that the Authority may preclude it from involvement in certain disposition/privatization initiatives or transactions that result from the findings of its evaluations hereunder or from participation in any contract which results, directly or indirectly, from the Services provided by the Contractor hereunder.

6. Definitions

As used in this section, the following terms shall mean:

Affiliate - Two or more firms are affiliates if a parent owns more than fifty percent of the voting stock of each of the firms, or a common shareholder or group of shareholders owns more than fifty percent of the voting stock of each of the firms, or if the firms have a common proprietor or general partner.

Agency or Governmental Agency - Any federal, state, city or other local agency, including departments, offices, public authorities and corporations, boards of education and higher education, public development corporations, local development corporations and others.

Investigation - Any inquiries made by any federal, state or local criminal prosecuting agency and any inquiries concerning civil anti-trust investigations made by any federal, state or local governmental agency. Except for inquiries concerning civil anti-trust investigations, the term does not include inquiries made by any civil government agency concerning compliance with any regulation, the nature of which does not carry criminal penalties, nor does it include any background investigations for employment, or Federal, State, and local inquiries into tax returns.

Officer - Any individual who serves as chief executive officer, chief financial officer, or chief operating officer of the Bidder by whatever titles known.

Parent - An individual, partnership, joint venture or corporation which owns more than 50% of the voting stock of the Bidder.

If the solicitation is a Request for Proposal:

Bid - shall mean Proposal;

Bidder - shall mean Proposer;

Bidding - shall mean submitting a Proposal.

In a Contract resulting from the taking of bids:

Bid - shall mean bid;

Bidder - shall mean Bidder;

Bidding - shall mean executing this Contract.

In a Contract resulting from the taking of Proposals:

Bid - shall mean Proposal;

Bidder - shall mean Proposer;

Bidding - shall mean executing this Contract.