

CITY OF HOUSTON HOUSTON AIRPORT SYSTEM

REQUEST FOR PROPOSAL (RFP) SOLICITATION NO.: H73-HVAC-2023-001 OPERATIONS AND MAINTENANCE (O&M) HEATING VENTILATING AND AIR CONDITIONING (HVAC) FOR HOUSTON AIRPORT SYSTEM (HAS)

Date Issued: July 15, 2022

Pre-Proposal July 28, 2022, 10:00 A.M. (local time)
Conference: Houston Airport System, Supply Chain

Management, Room 113, 18600 Lee Road

Humble, Texas 77338

Questions Deadline: August 11, 2022 @ 12:00 Noon (local time)

Proposal Due Date: September 15, 2022 @ 10:00 A.M. (local time)

Solicitation Contact Gabriel Carey

Person: Sr. Procurement Specialist, Houston Airport System

Gabriel.carey@houstontx.gov

281-230-8030

Project Summary: This is for a three (3) year contract with two (2) one-year

options to renew annually, for a maximum five-year contract term for HVAC Services. General — Operation and Maintenance Requirements for HAS building and terminals at

IAH and HOU.

NIGP Code: <u>914-50</u>

M/WBE Goal: 25%

DocuSigned by:

CH

Jedediah Greenfield

Interim Chief Procurement Officer

City of Houston

7/12/2022 | 11:55 CDT

Date

TABLE OF CONTENTS

<u>PART I – GENERAL INFORMATION</u>	4
A. General Information	4
B. City of Houston Background	4
C. Solicitation Schedule	4
PART II – SCOPE OF WORK / TECHNICAL SPECIFICATIONS	5
1.0. Purpose	5
2.0 Basic Services	7
3.0 Operations and Maintenance Services	28
4.0 Other Work Services	50
5.0 Personnel Requirements	52
6.0 Special Conditions	53
PART III – EVALUATION AND SELECTION PROCESS	55
A. Interviews/Oral Presentations	55
B. Selection Process	56
C. Evaluation Criteria	56
D. Qualifications	56
E. Technical Approach Management Plan	56
F. Personnel/Staffing Requirements	57
G. Pricing	58
H. Qualification/HVAC Experience	58
I. Efficiency/Sustainability/Energy Savings/Training	58
J. Computerized Maintenance Management Systems	59
K. Additional Related Services	59
L. Interlocal Contract	59
M. Best and Final Offer (BAFO)	59
PART IV – SUBMISSION OF PROPOSAL	59
A. Instructions for Submission	59
B. Submission Requirements	60
PART V – EXCEPTIONS TO TERMS AND CONDITIONS	61
PART VI – SPECIAL CONDITIONS	61
A. No Contact Period	

B. Minority and Woman Business Enterprises (M/WBE)	62
C. Compliance With Certain Law Requirements	62
D. Protest	63
PART VII – INSTRUCTIONS TO PROPOSERS	63
A. Pre-Proposal Conference	63
B. Additional Information and Specification Changes	63
C. Letter(s) of Clarification	63
D. Examination of Documents and Requirements	63
E. Post-Proposal Discussions with Proposer(s)	63
PART VIII – REQUIRED FORMS TO BE SUBMITTED WITH PROPOSAL	63
EXHIBIT I – OFFER AND SUBMITTAL, REFERENCES, PROPOSED SUBCONTRACTORS	01
EXHIBIT I – OFFER AND SUBMITTAL	
EXHIBIT I – REFERENCES	
EXHIBIT I – LIST OF SUBCONTRACTOR(S)	
EXHIBIT II – MINORITY/WOMEN BUSINESS ENTERPRISES	
EXHIBIT II – MINORIT FOWER BOSINESS ENTER RISES	
EXHIBIT II – ATTACHMENT "B": OFFICE OF BUSINESS OPPORTUNITY AN	
CONTRACT COMPLIANCE M/WBE UTILIZATION REPORT	
EXHIBIT II – ATTACHMENT "C": CERTIFIED M/WBE SUBCONTRACTOR TE	
EXHIBIT II – ATTACHMENT "D": OFFICE OF BUSINESS OPPORTUNITY AN	
CONTRACT COMPLIANCE M/WBE UTILIZATION REPORT	
EXHIBIT III – FAIR CAMPAIGN ORDINANCE	
EXHIBIT III – FORM "A": FAIR CAMPAIGN	
EXHIBIT IV – CONTRACTOR OWNERSHIP DISCLOSURE ORDINANCE	
EXHIBIT IV: AFFIDAVIT OF OWNERSHIP OR CONTROL	
EXHIBIT V – ANTI-COLLUSION STATEMENT	
EXHIBIT VI – PROPOSERS STATEMENT OF RESIDENCY	
EXHIBIT VI – CONFLICT OF INTEREST QUESTIONNAIRE	
PART IX – ATTACHMENTS	
ATTACHMENT A – Definitions	
ATTACHMENT B – Fee Schedule	
7 1 1 1 1 Y W W W W W W W W W W W W W W W	

PART I - GENERAL INFORMATION

A. General Information

The City of Houston ("City") is currently seeking proposals from qualified contractors to provide HVAC, electrical and plumbing related services for the Houston Airport System.

B. City of Houston Background

The City of Houston is the fourth largest City in the United States comprising 23 departments with multiple locations throughout the City. The City has approximately 23,000 employees with approximately 500 employees involved in the procurement and/or contracting process. Contracts where the City must pay in excess of \$50,000 are routed to City Council for approval. The annual volume of contracts and purchase orders issued in the City in the last five years has ranged from 19,000 to 23,000.

C. Solicitation Schedule

Listed below are the important dates for this Request for Proposal (RFP).

EVENT

Date of RFP Issued
Pre-Proposal Conference
Questions from Proposers Due to City
Proposals Due from Proposers
Notification of Intent to Award (Estimated)
Council Agenda Date (Estimated)
Contract Start Date (Estimated)

DATE

July 15, 2022 July 28, 2022 August 11, 2022 September 15, 2022 November 17, 2022 January 26, 2023 February 23, 2023

Part II SCOPE OF WORK/TECHNICAL SPECIFICATIONS

1.0 **PURPOSE**

- 1.1 The primary purpose of this contract shall be to provide the Heating, Ventilating, and Air Conditioning System Operations & Maintenance Services in support of the HAS Mission and Vision Statements to establish the City of Houston as a 5-Star global service gateway. Activities conducted under this contract should be in support of this goal.
- 1.2 To achieve our overall purposes, the following core values have been adopted.

1.2.1 MISSION:

1.2.1.1 We exist to connect the people, businesses, cultures and economies of the world to Houston.

1.2.2 VISION:

1.2.2.1 Establish Houston as a five-star global air service gateway where the magic of flight is celebrated.

1.2.3 STRATEGIC PRIORITIES:

- 1.2.3.1 Make our passengers happy.
- 1.2.3.2 Act responsibly to achieve social and environmental and economic sustainability.
- 1.2.3.3 Build the platforms for future success.
- 1.2.3.4 Invest in our partnerships and our employees.

1.2.4 CORE VALUES (R.I.S.E.)

- 1.2.4.1 Relationships: We work together with integrity and treat every individual with courtesy and respect.
- 1.2.4.2 Innovation: We have the courage and willingness to consider new and unconventional ways of thinking.
- 1.2.4.3 Service: We WOW our passengers through a "can do" attitude and respond quickly to meet and exceed their expectations.
- 1.2.4.4 Excellence: We strive for quality and skillful execution without compromise.

1.3 **FACILITIES INCLUDED:**

- 1.3.1 George Bush Intercontinental Airport/Houston (IAH)
 - 1.3.1.1 IAH includes all HAS Maintained buildings on and off airport. Refer to Attachment "C" for equipment lists and Attachment "D" for airport buildings and site plans showing the respective buildings.
- 1.3.2 William P. Hobby Airport, Houston (HOU)
 - 1.3.2.1 HOU includes all HAS Maintained buildings on and off airport. Refer to Attachment "C" for equipment lists and Attachment "D" for airport buildings and site plan showing the respective buildings.
- 1.3.3 Ellington Airport (EFD)

- 1.3.3.1 EFD includes all HAS Maintained buildings on and off airport. Refer to Attachment "C" for equipment lists and Attachment "D" for buildings and site plan with clarification notes.
- 1.3.4 These three airport facilities hereinafter may also be referred to jointly as Airports. These facilities are under the supervision of HAS for the City of Houston.
- 1.3.5 The Equipment list Attachment "C" and Attachment "E" may not be comprehensive and fully inclusive. contractor will be responsible for all equipment regardless of its inclusion or exclusion on the list.
- 1.3.6 For lists of HAS equipment, refer to Attachment "C", Attachment "E" and for Equipment Building lists, refer to Attachment "D". In the event of a discrepancy, the Attachment "D" shall govern.

1.4 WORK INCLUDED

- 1.4.1 Basic Services
- 1.4.2 Operations & Maintenance (O&M)
 - 1.4.2.1 Level I Service Perpetual Best Management Practices
 - 1.4.2.2 Level II Service Predictive Industry Standard
 - 1.4.2.3 Level III Service Reactive In-House HAS Provided
- 1.4.3 Other Work Services
- 1.5 At a minimum, the contractor shall provide the following services, but are not limited to:
 - 1.5.1 The contractor shall provide complete maintenance of existing HVAC systems as described in Attachment "C" and Attachment "E" and shall also provide maintenance of additional HVAC systems as they are released to the contractor following construction. The contractor shall utilize the city of Houston's Enterprise Asset Management Systems (EAMS), as described in Section 3.10. The Agreement pricing shall be a monthly fee for each functional element as written in the executed agreement.
 - 1.5.2 Must possess adequate communication and English language skills to accurately provide information to the public and to respond to routine and emergency communications by telephone or radio. The contractor shall be always responsible for the conduct of all the contractor's personnel.
 - 1.5.3 Contractor's personnel shall be properly uniformed, displaying their company logo, wearing nonslip shoes, clean and neat in appearance while on duty, and shall deal with members of the public in a prompt, polite and business-like manner.
 - 1.5.4 The contractor shall remove from the Airport work site any contractor's employee, contractor's contractor, contractor's consultant, or any other invited person(s) of the contractor, onto the Airport, when the Director notifies the contractor in writing that such person:
 - 1.5.4.1 It is, in the sole opinion of the Director, incompetent, unfit or disorderly; or
 - 1.5.4.2 has used profane or abusive language or behavior towards any person at the Airport. Such person shall not be reassigned to Airport work by the contractor, except with the express written consent of the Director.

1.5.5 The contractor shall always provide properly trained and competent personnel in the number and classifications necessary to perform its services in an efficient manner and in accordance with the contractor's documents.

2.0 BASIC SERVICES

2.1 **PERFORMANCE STANDARDS**

- 2.1.1 Contractor shall provide all management, supervision, skilled and unskilled labor, tools, service and maintenance materials, equipment, outside services, replacement equipment and parts, components and appurtenances, instruments, expendables, supplies, training, and insurance as required for Operation and Maintenance (O&M) to ensure the Level of Service (LOS) of all Work described in the Agreement for HVAC installed at the airports.
- 2.1.2 HVAC Operation and Maintenance Requirements for HAS Maintained Buildings and Terminals, excluding at IAH and HOU.
- 2.1.3 Contractor's operation and maintenance of Airports HVAC and equipment must be in accordance with the highest standards prevailing in the industry, including but not limited to the latest release of the Operations & Maintenance Best Practices developed by the U.S. Department of Energy, recommendations of the OEM, as well as all applicable codes, rules, regulations, and laws of any regulatory or legislative body having jurisdiction over IAH, HOU, and EFD which include, but are not limited to, State of Texas agencies having jurisdiction over boiler operations, Texas Commission on Environmental Quality (TCEQ) over certain environmental matters, and Federal regulatory bodies, including, but not limited to EPA, OSHA, TSA, and FAA. Contractor shall ensure full compliance and shall bear the cost of any additional work or materials not specified that may be required. Any violation, omission, or question of compliance must be brought to the attention of the Director within five days of contractor's actual or constructive knowledge.
- 2.1.4 Contractor shall respond to a request from the Director for emergency service to perform all steps reasonably necessary to protect persons and property from risk of harm due to a problem with the system. Priority must be given to requests for emergency service.

2.2 **WORK INCLUDED – GENERAL**

- 2.2.1 The Work provided by contractor under the Agreement includes the Level of Services (LOS) and Other Work/Services listed in Sections 3.0 and 4.0.
- 2.2.2 Work does not include Natural Gas piping equipment upstream of HVAC equipment stop valves. Work includes all plumbing and electrical systems (including lighting) inside the perimeter walls of all HVAC Mechanical Rooms, air conditioning condensate drainage pumps and piping, all Airports domestic water backflow prevention devices, and all dewatering pumps (excludes lift stations). Refer to Attachment "C" and Attachment "E" Equipment List.
- 2.2.3 Work does not include HVAC equipment or domestic water pumps located in the buildings and/or spaces. Repairs and/or replacement of HVAC equipment or parts due to contractor's failure to perform proper maintenance as specified will be the responsibility of the contractor at no cost to HAS.
- 2.2.4 Repairs and/or replacement of HVAC equipment or parts due to contractor's failure to perform proper maintenance as specified will be the responsibility of the contractor at no cost to HAS.
- 2.2.5 Contractor shall bear all costs associated with any repairs or replacement required as the result of contractor's negligence or deliberate act.

2.3 **OPERATING STANDARDS**

- 2.3.1 Operating of the HVAC at the highest LOS and reliability, maintaining specified environmental conditions, and cost-effective energy management are of paramount importance in operating and maintenance of the Airport's HVAC. Contractor shall observe OEM recommended preventive maintenance and maintenance practices and procedures. Contractor shall comply with applicable Federal, State and Local regulations of Authorities having jurisdiction including regulations of Occupational Safety and Health Act (OSHA), Environmental Protection Agency (EPA) requirements and recommended practices of National Institute for Occupational Safety and Health.
- 2.3.2 The operating procedures used by contractor must be in accordance with OEM instructions contained in applicable manufacturers' manuals for individual items of equipment, including the latest OEM technical/user manuals, service bulletins, service advisories, product/service information updates, and all other such OEM published information pertaining to the maintenance and operation of HVAC Systems. Contractor's operating procedures must address overall operation of the plant and/or HVAC Systems, taking into account the interrelationships of various systems to ensure that proper sequences are followed in start-up, shutdown, or in making operating adjustments. All written operating instructions and procedures must be readily available to operating personnel at all times for reference.
- 2.3.3 It is recognized that contractor has no responsibility regarding design of the facilities, which it will operate and maintain. However, where it is evident that safety, reliability or efficiency can be improved through capital investment in equipment, analyzers, instrumentation, etc., Contractor shall bring such matters to the attention of the Director in writing for his consideration and action as the Director deems appropriate.
- 2.3.4 Contractor shall operate and maintain HVAC equipment to provide optimum performance, energy usage, and reliability.

2.4 OPERATING PROCEDURES AND MANUALS

- 2.4.1 Contractor is responsible for obtaining/providing the following manuals for use in the operation and maintenance of HVAC.
 - 2.4.1.1 Operations Manual.
 - 2.4.1.2 Equipment Manuals and Equipment Data Sheets.
 - 2.4.1.3 Systems Manual.
- 2.4.2 When available HAS will provide manuals etc. to contractor.
- 2.4.3 Operations Manual, Equipment Manuals, and Equipment Data Sheets address the HVAC equipment from a component perspective. The Systems Manual details the operational procedures of the HVAC equipment from a procedural perspective. Contractor shall use these manuals in the operation and maintenance of the facilities.
- 2.4.4 Contractor shall follow the procedures in the Operations Manuals and ensure the Operations manuals and data sheets, technical/user manuals, service bulletins; service advisories, product/service information updates, and all such other OEM published information pertaining to the maintenance and operation of HVAC and equipment are regularly updated and maintained.
- 2.4.5 Some equipment installed by tenants and the City may not be included in the equipment manuals. contractor shall obtain any missing pertinent data for the equipment manuals for any equipment installed.
- 2.4.6 HAS will assist in the transfer of available copies of the operations manuals and the equipment manuals to contractor upon HAS issuance of notice to proceed document for each Airport.
- 2.4.7 Updating of the Equipment Manual shall be completed by the end of the first year of the Agreement and shall include development by contractor of Equipment Data forms expanded to include all data pertinent to the normal operation and maintenance of each piece of mechanical

and related electrical equipment. Such data shall include in addition to existing data, the sheave and belt sizes, motor data, starter and heater sizes, and the manufacturer's data identifying the equipment or component. Recommended changes in the Operations Manual, as a result of knowledge and experience with the systems, shall be submitted in writing for the Director's consideration. These suggestions will be taken under advisement by the Director. As required, the suggestions will be reviewed by the Director with contractor. Resulting changes to the Operations Manual shall be the responsibility of contractor. Once finalized and completed by the end of the first year of the Contract, contractor shall maintain and update the documents.

2.5 **REGULATORY COMPLIANCE/CODES**

2.5.1 Regulatory Compliance

- 2.5.1.1 The contractor shall comply with all applicable Federal, State and local laws, HAS Regulations and policies, standards, ordinances, rules, and regulations pertaining to the performance of the Work specified herein.
- 2.5.1.2 Licenses, Permits, and Bonds: All personnel engaged in the maintenance activities must possess certificates of training, licenses, permits, and bonding as required by the Federal, State, City, County, HAS, and other local authorities having jurisdiction and as specified for each activity they will be directly engaged in or supervise. All certificates of training, licenses, permits and bonds shall be current and valid and available immediately upon request by HAS.
- 2.5.1.3 The contractor shall obtain and pay for all permits, licenses, certifications and approvals required to perform services under the Agreement.
- 2.5.1.4 The contractor shall schedule recurring inspections and certifications and pay all associated fees.
- 2.5.1.5 The contractor shall obtain any permits required to work on the Airports, including in restricted areas, as defined by Federal, State and local laws, City policies, procedures, ordinances, rules, codes and regulations. Both the contractor's business and the contractor's employees, including contractor's employees, must be certified to work on the Airports property, including restricted areas.
- 2.5.1.6 The contractor shall be required to provide, as requested and on demand, all licenses, permits, certifications, and other such proof of qualifications for any personnel required to work on the Airports, including restricted areas, for proper execution of the Agreement.

2.5.2 Testing and Reporting Required by TCEQ and Federal Agencies

- 2.5.2.1 The contractor shall take all steps necessary to operate and maintain boilers to ensure compliance with all current TCEQ regulations and those stipulated by Federal EPA New Source Performance Standards.
- 2.5.2.2 As new or revised regulations are placed into effect, and HAS performs any replacement, retrofit, and/or reconstruction of the boiler packages to keep them in compliance with the new standard(s), contractor shall modify its operation and maintenance procedures and its testing and reporting procedures to ensure compliance with regulations.

2.5.3 Codes and Standards

- 2.5.3.1 Except where specified or exceeded by the requirements of the specification, the contractor shall comply with to the latest edition of the following Codes adopted by local Code authorities:
 - 2.5.3.1.1 Federal, state, and local building, plumbing, mechanical, electrical, safety and environmental codes, and HAS standards.

2.5.3.1.10

2.5.3.1.2	National Electrical Code (NEC), City of Houston and State requirements as stated in Texas Electrical Safety and Licensing Chapter 1305 and Administrative Rules of the Dept. of Licensing and Regulations, 16 Administrative code Chapter 73.
2.5.3.1.3	International Plumbing Code.
2.5.3.1.4	International Mechanical Code.
2.5.3.1.5	International Fire Code.
2.5.3.1.6	International Energy Conservation Code.
2.5.3.1.7	State and Local Building Codes and Ordinances.
2.5.3.1.8	State and Local Fire Codes and Regulations.
2.5.3.1.9	Federal Aviation Standards and Regulations.

2.5.3.2 Codes and Standards listed above and throughout these specifications are minimum standards.

Occupational Safety and Health Administration Regulations.

2.6 **WARRANTIES**

- 2.6.1 Contractor warrants that it shall perform all work in a good and workmanlike manner meeting the standards of quality prevailing in Harris County, Texas, for work of this kind. Contractor shall perform all work using trained and skilled persons having substantial experience performing the work required under this Agreement.
 - 2.6.1.1 With respect to any parts, instruments, equipment, and goods it furnishes, contractor warrants: That all items are free of defects in title, design, material, and workmanship.
 - 2.6.1.1.1 That each item meets or exceeds the manufacturer's specifications and requirements for the equipment, structure, or other improvement in which the item is installed.
 - 2.6.1.1.2 That each item is new, in accordance with original equipment manufacturer's specifications, and of a quality at least as good as the quality of the item which it replaces (when the item was new).
 - 2.6.1.2 That no items or their use infringe upon any patent, copyright, or other proprietary rights. In the event contractor becomes aware of such an infringement, contractor shall replace the items that are the subject of the infringement with non-infringing items in a timely manner; and
 - 2.6.1.3 That for one year from the date of any installation ("Warranty Period"), Contractor shall provide all parts, instruments, equipment, and goods required to complete all Maintenance required under the Agreement at no cost to the City. This warranty is in addition to contractor's obligation to provide O&M Services under the Agreement. When the manufacturer's warranty period for any parts, instruments, equipment, and goods is greater than one year, the longer period prevails.
- 2.6.2 As part of O&M Services, contractor shall manage and enforce on the City's behalf all manufacturer warranties issued before the Effective Date of this Agreement, during the Term of the Agreement, and any extensions. Contractor shall not be entitled to any additional compensation for the management and enforcement of these manufacturer warranties. If Contractor does not exhaust all remedies, including litigation, against a manufacturer who fails to honor all or a part of a warranty, it shall not receive additional compensation from the

City for the labor and material costs it incurs to repair or replace the item that otherwise would have been under warranty.

2.7 **PERFORMANCE BOND**

- 2.7.1 The successful contractor shall furnish and maintain throughout the Agreement term a Performance Bond in the amount of 100% of the annual applicable Agreement year. Contractor shall renew this bond for each renewal year of this Agreement in an amount equal to the Agreement amount for the applicable renewal term. The bond shall be conditioned upon contractor's full and timely performance of this Agreement and must be issued by a corporate surety authorized to write surety bonds in the State of Texas and be in the form as shown in Exhibit "D".
 - 2.7.1.1 The Performance Bond shall be in the same form as that distributed by the City, all duly executed by this bidder (as "Principal") and by a corporate surety company licensed to do business in the State of Texas. The surety must be listed on the current list of accepted sureties on federal bonds published by the United States Treasury Department.

2.8 **PRICING**

- 2.8.1 Contractor LOS bid pricing will be effective for the duration of the contract and be defined as "Unit Pricing" if new Terminal/Public Facilities, Admin/Support Buildings, and Remote Buildings are added or subtracted from the contract.
- 2.8.2 Contractor shall provide annual lump sum bid costs for each line item on the bid form. Line items are organized by Airport (IAH, HOU, and EFD), Building Types (Terminal/Public Facilities, Admin/Support Buildings and Remote Buildings), System (BAS, HVAC, Domestic Water, and Plumbing) and LOS (Level I, Level II, and Level III). Refer to Attachment "C" for System Information and Attachment "D" for Building Information.
- 2.8.3 HAS reserves the right to select any LOS and to reduce or increase Levels of Service as needed throughout the contract term. Changes made after award of contract will be done by Change Order. Contract change orders will include a 30-day notice period prior to becoming effective.

2.9 **MONTHLY PAYMENTS**

- 2.9.1 The monthly payments for Airports shall include Operation, Preventive and Corrective Planned Maintenance for all equipment (Refer to Attachment "C" and "D").
- 2.9.2 The monthly lump sum payments shall include all overtime, after-hours labor, additional staffing, and emergency labor required to meet the Airports HVAC performance standards and Duties of contractor detailed in the Agreement. Refer to Section 2.21, Invoicing.

2.10 **RECORDS AND REPORTS**

- 2.10.1 Documents Records and Reports
 - 2.10.1.1 As part of O&M Services, Contractor shall utilize the HAS Enterprise Asset Management System (EAMS) to develop and maintain daily logs, weekly, and monthly reports for operation and maintenance of HVAC and equipment as more specifically described in Section 3.10. The logs and reports shall provide a record of all pertinent operating data and maintenance performed. Contractor's record keeping system must be first approved by the Director in writing prior to implementation by scontractor and all required records may be inspected by the Director at any time during normal business hours. The scontractor shall provide all maintenance records and history with one hard copy and three (3) HAS approved

electronic devices to the Director. Throughout the term of the contract and upon expiration or termination of the Agreement, all manual and automated records (including software data) produced and maintained on file become the property of HAS; scontractor shall submit all maintenance records to Director every 6 months. Contractor may retain all original employee and accounting files, but shall furnish a copy of the accounting files to Director, upon request. Failure to provide this and all additional reports in Section 2.10 will result in the application of liquidated damages in accordance with Section 3.18 of this contract.

- 2.10.1.2 Within sixty (60) days of the award of contract contractor shall provide preventive maintenance (PM) plans for HAS review and approval. The Contractor shall submit the PM plans in a HAS approved format. HAS will generate the approved PM Plan in EAMS. Any requested changes by the contractor to PM plans will require HAS review and approval. Once changes are approved, they shall be submitted in a HAS approved format thirty (30) days prior to schedule due date of work to be performed.
 - 2.10.1.2.1 Corrective Maintenance shall be documented in EAMS.
 - 2.10.1.2.2 Reports must be signed by the scontractor's Project Manager. Such signature is certification that all reports and information are truthful and accurate. Falsification of any records is grounds for termination of the Agreement.
 - 2.10.1.2.3 Contractor's Logs provided to the Director must document all pertinent operating data and maintenance performed by scontractor or its Contractors under the Agreement. Contractor shall describe any event or condition not readily discernible from recorded data in a "Remarks" section, including any task required under this Agreement but not performed. Failure to document this can result in the application of liquidated damages in accordance with Section 3.18 of this Agreement.
 - 2.10.1.2.4 Contractor shall develop and maintain on site records, including but not limited to, Agreement documents, inventory records, accounting and procurement records, system documents and manuals and any other documents necessary to meet reporting requirements or any other documents reasonably required by the Director. Contractor shall coordinate with HAS GIS personnel to provide records of any equipment modifications or additions which will affect the utility plant drawings. The Contractor shall provide the GIS manager with the information required to update the drawings within 30 days of completion of any such modifications or additions.

2.10.2 <u>Daily Records and Reports</u>

2.10.2.1 Contractor shall develop and maintain an automated Daily Work Log to record HVAC and equipment daily operation and maintenance events and to produce a Daily Work Log Summary to be submitted to HAS daily at an agreed upon time. The Daily Work Log must record all pertinent daily operating and maintenance data, including but not limited to EAMS Work Order (WO) Number, date, time, service performed, status or results, and person who performed service or inspection. Relevant events or conditions not readily discernible from the recorded data must be described in a "Remarks" section. The Daily Work Log and Summary must be in a format acceptable to the Director. Additionally, Contractor shall provide a daily log of parts/materials used.

2.10.3 Weekly Records and Report

2.10.3.1 Contractor shall submit a weekly report depicting the work completed or performed for each week.

2.10.4 Monthly Records and Reports

- 2.10.4.1 Contractor shall provide a monthly Operation and Maintenance report. The report must provide essentially the following information in a format acceptable to the Director. A compliance check list of all items required in this section shall be included with the report. The Monthly Operation & Maintenance Report must include, but is not limited to:
 - 2.10.4.1.1 Daily Summary Maintenance Log Summary Report.
 - 2.10.4.1.2 Status of Systems and Equipment Report.
 - 2.10.4.1.3 Parts/Material Usage Report. Report shall provide parts/material usage during the month, as well as indicating material replacement stock over the month.
 - 2.10.4.1.4 Summary of Maintenance Work Performed and all work that was scheduled but not performed for any reason.
 - 2.10.4.1.5 The results of inspections and tests conducted (including but not limited to water treatment, harmful organism tests).
 - 2.10.4.1.6 Reliability Centered Maintenance Report based on LOS.
 - 2.10.4.1.7 Two (2) month schedule of upcoming inspections or tests, and projection of major equipment shutdowns required for maintenance.
 - 2.10.4.1.8 List of Equipment Breakdowns and Repair Time Report.
 - 2.10.4.1.9 Statistical Operating Data Report (including, but not limited to, equipment on-line/standby report).
 - 2.10.4.1.10 Warranty Report.
 - 2.10.4.1.11 Employee Roster Report, maintaining employee weekly attendance by date, title, etc., submitting to the Director monthly to the extent allowed by law.
 - 2.10.4.1.12 Other reports as may be required by the Director (including, but not limited to, filter replacement).
- 2.10.4.2 Monthly maintenance reports must be submitted to the Director by the fifteenth (15th) day following the reported month. Maintenance reports are to be submitted on HAS approved electronic devices.

2.10.5 Other Records and Reports

- 2.10.5.1 Hazardous Chemical Records Contractor and its Contractor shall provide a completed Safety Data Sheets (SDS) as required by applicable laws for each hazardous chemical as used in performance of the work or stored on City property.
 - 2.10.5.1.1 Any material declared as hazardous by the Texas Department of Health, the EPA or the TCEQ requires an SDS. That Department also will provide standard SDS forms upon request.
 - 2.10.5.1.2 Contractor's Project Manager shall maintain the completed forms. All hazardous chemical records must be made available to the Director for periodic review.

- 2.10.5.2 Damage Reports In all Instances where any HAS property or equipment, (i.e., furniture, building, fixtures, etc.,) is damaged by the Contractor.
 - 2.10.5.2.1 The damage shall be reported immediately along with a completed written damage report delivered to the contract administrator within 24 hours of the occurrence to include weekends and holidays.
 - 2.10.5.2.2 The report shall explain the circumstances of the accident and the extent of damage to include, at a minimum, date, time, exact location, parties Involved, witnesses, circumstances of occurrence, and photos, if available.
 - 2.10.5.2.3 The Contractor shall bear all costs of repairing or replacing damaged property.
- 2.10.5.3 Accident and Damage Reports The Contractor shall comply with all OSHA reporting requirements for recordkeeping and reporting of all accidents resulting in death, injury, occupational disease, or adverse environmental impact.
 - 2.10.5.3.1 An accident and/or damage incident shall be reported Immediately, and a written damage report shall be delivered to the Contractor Administrator within 24 hours of its occurrence, to Include weekends and holidays.
 - 2.10.5.3.2 The report shall explain the circumstances of the accident and extent of damage to include, at a minimum, date, time, exact location, parties involved, witnesses, circumstances of occurrence, photos, if available, root cause analysis, and proper corrective actions to prevent reoccurrence.
 - 2.10.5.3.3 The Contractor shall cooperate with the HAS safety officer providing written documentation and pertinent information required for their records.

2.11 **PERSONNEL REQUIREMENTS**

- 2.11.1 Staffing Contractor shall provide the appropriate number of qualified personnel required to operate and maintain HVAC Systems at all Airports per the contracted LOS. During the phase-in period, Contractor shall develop and implement a full project schedule detailing the responsibilities, skill sets and number of personnel and submit this schedule to the Director for written approval.
- 2.11.2 Should HAS determine that the Contractor is not meeting the Agreement responsibilities with the Contractor's on-site crew, then upon the Director's request, Contractor shall modify/increase its on-site crew in order to meet Agreement obligations. Contractor shall increase its on-site crew at no cost to HAS as required to fulfill the requirements of the Agreement. Should the Director determine that Contractor is not meeting Agreement responsibilities; the Director will notify Contractor in writing. Contractor shall address and cure performance issues relating to personnel immediately. A plan to cure must be approved in writing by the Director at his sole discretion. If Agreement responsibilities can only be met with additional permanent staff, Contractor shall pay for the cost of such additional staff.
- 2.11.3 Contractor shall be responsible for providing additional staffing during irregular operations and inclement weather at no additional cost to the City.
- 2.11.4 All personnel assigned by the Contractor to perform in accordance with the terms of the Agreement will not be assigned to any other projects, Other Work Services (OSR), or contracts managed by the Contractor, unless approved in writing by HAS.
- 2.11.5 Administrative Tasks Contractor shall perform certain administrative tasks which includes implementation, operation, and maintenance of data systems, radio communications, security

- and badging requirements, preparation of work orders and other service requests, generating reports, invoicing, attending meetings, administering a quality control program, and performing certain housekeeping duties.
- 2.11.6 The following job descriptions are intended to address minimum key personnel qualifications and are not intended to establish the level of staffing needed to operate and maintain the contract.

2.11.7 Project Manager:

- 2.11.7.1 The Contractor shall designate in writing to the Director a Project Manager (PM) for this Agreement. Such Project Manager must be approved in writing by the Director before commending performance herein.
- 2.11.7.2 Contractor shall provide a dedicated PM for all skilled and experienced in the operation and maintenance of the type of systems/equipment identified in the Agreement, who will be actively included in the system maintenance and who will serve as the main point of contact for Contractor.
- 2.11.7.3 The PM will be exclusively assigned to this Agreement and shall not be reassigned without prior written approval of the Director. Such approval will not be unreasonably withheld if the replacement PM has equal experience, and skilled in a like position with a contract of similar size and scope as described herein.
- 2.11.7.4 The PM shall be available and on call 24 hour daily.
- 2.11.7.5 The PM shall not be a working technician/mechanic.
- 2.11.7.6 The PM shall office at IAH, subject to change at the Director's discretion, from 8:30 a.m. through 5:30 p.m., Monday through Friday at a minimum.
- 2.11.7.7 If the PM is to be temporarily off-site, the Director must be notified in writing and an acting PM identified and approved by the Director. The acting PM must be able to act for the Contractor in all matters.
- 2.11.7.8 If PM is on vacation, sick, etc., he will name a responsible subordinate to act on his behalf with full authority to represent the Contractor as if the subordinate was the PM.
- 2.11.7.9 Contractor shall notify Director of holiday/vacation schedules at least fourteen (14) days in advance.
- 2.11.7.10 Contractor shall reply to correspondence via email within 12 hours.
- 2.11.7.11 After execution of the Agreement the Project Manager shall attend a minimum of one meeting every month, or as requested by Director, with the Director to report on the status of the system/equipment and the Work/Services. Contractor shall prepare a typed agenda covering the topics to be discussed, keep minutes of the meetings in a form satisfactory to the Director, and issue copies of the minutes to all attendees within three (3) of each meeting. Liquidated damages may be assessed for failure of Contractor to comply with the above requirement

2.11.8 Project Manager - Minimum Requirements:

- 2.11.8.1 A minimum of 10 years HVAC maintenance project experience with verifiable HVAC management capability.
- 2.11.8.2 A Class A Texas Air Conditioning and Refrigeration Contractor License with "R" endorsement.
- 2.11.8.3 Minimum of five (5) years Energy Management experience.
- 2.11.8.4 Five (5) years cost forecasting and training and managing personnel.

- 2.11.8.5 Advanced computer skills and in-depth knowledge of complex DDC control systems.
- 2.11.8.6 HVAC Control experience including pneumatic control systems.
- 2.11.8.7 The Project Manager shall communicate with the Director and shall be exclusively assigned to this Agreement. The Project Manager will be physically located at IAH but will operate between all Airports.
- 2.11.9 <u>Administrative Coordinator</u> Contractor shall provide at least one (1) qualified person to be responsible for administrative needs of this contract, including but not limited to: Completing all required reports, Training schedules the OSR process and warranty reports. Additionally, will keep all labor records and safety incident reports for term of this agreement.
 - 2.11.9.1 Minimum 4 years' experience in an O&M administrative environment.
 - 2.11.9.2 Excellent typing skills.
 - 2.11.9.3 In-depth computer skills.
 - 2.11.9.4 Proficiency with MS Office Applications and able to create and maintain spreadsheets.
 - 2.11.9.5 Minimum coverage 8 hours a day, 5 days a week.
- 2.11.10 <u>IAH Contractor's personnel shall include professionals in the following job categories:</u>
 - 2.11.10.1 <u>IAH Maintenance Manager -</u> Maintenance Manager shall have at least ten (10) years HVAC Facility Maintenance Experience in a large facility environment of at least 1.0 million sq. ft. At a minimum, experience and requirements will include, but not be limited to:
 - 2.11.10.1.1 Five 5 years supervisory capacity.
 - 2.11.10.1.2 A State of Texas HVAC License Class B or higher.
 - 2.11.10.1.3 A Universal Recovery Certificate.
 - 2.11.10.1.4 Working knowledge of Variable Frequency Drives.
 - 2.11.10.1.5 Knowledge of Complex Control Systems, BACNET.
 - 2.11.10.1.6 Chemical Treatment knowledge-
 - 2.11.10.1.7 Building Pneumatics and Compressors.
 - 2.11.10.1.8 Building Chilled Water and Hot Water Pumps.
 - 2.11.10.1.9 Working knowledge of Heat Exchangers.
 - 2.11.10.1.10 Fundamental Electrical Diagnostic Skills.
 - 2.11.10.2 <u>IAH Maintenance Supervisor</u> [(at least one (1) per shift] Must have a minimum of five (5) years' experience in Facility Maintenance, including but not limited to the following requirements:
 - 2.11.10.2.1 Three (3) years supervisory experience.
 - 2.11.10.2.2 Universal Recovery Certificate.
 - 2.11.10.2.3 State of Texas A/C License, Class B or higher.
 - 2.11.10.2.4 Working knowledge of Variable Frequency Drives.
 - 2.11.10.2.5 Chemical Treatment experience.
 - 2.11.10.2.6 Working knowledge of Building Automation System.
 - 2.11.10.2.7 Experience with Pneumatics Control Systems and Compressors.

- 2.11.10.2.8 Building Chilled Water and Hot Water Repair experience.
- 2.11.10.2.9 Experience with repair and operation of Heat Exchangers.
- 2.11.10.2.10 Fundamental Electrical Diagnostic Skills.
- 2.11.10.3 <u>IAH Maintenance Technicians</u> Contractor must provide 24/7 coverage. Technicians must have three (3) years' experiences in a Facility Maintenance environment exceeding 500,000 square feet. Experience includes but not limited to:
 - 2.11.10.3.1 Maintenance on pumps, air compressors, electrical motors/starter, AHU, Mixing Boxes, Duct Work, Bearing Replacement and Centrifugal Blowers.
 - 2.11.10.3.2 Maintenance Technician are to be assigned full time to terminals and buildings included in this Contract.
- 2.11.10.4 <u>IAH Maintenance Technician Helpers</u> Contractor must provide 24/7 coverage. Helpers must have at least one (1) year experience in a Facility Maintenance environment.
- 2.11.10.5 <u>IAH Electrician (Journeyman)</u> Electrician Mechanic must have a minimum of three (3) years HVAC electrical experience and possess a Journeymen license.
 - 2.11.10.5.1 Qualifications to perform most maintenance tasks on:
 - 2.11.10.5.1.1 Variable Speed Drives.
 - 2.11.10.5.1.2 High voltage experience.
 - 2.11.10.5.1.3 480 V. 3 ph., switch gear.
 - 2.11.10.5.1.4 Motor starters, transformers.
- 2.11.10.6 <u>Maintenance DX Mechanics</u> Contractor shall supply sufficient number of DX mechanics.
 - 2.11.10.6.1 Journeyman experience.
 - 2.11.10.6.2 Three years of repair experience in commercial air conditioning.
 - 2.11.10.6.3 Universal Refrigerant recovery license and minimum of class B state of Texas A/C license.
 - 2.11.10.6.4 DX Maintenance Mechanic will maintain all Freon based mechanical refrigeration and Air condition in a safe location per local, state or federal regulations.
- 2.11.10.7 <u>IAH Senior Building Controls Technician</u> (Controls BACnet Native) Senior Technician must have a minimum of Ten (10) years continuous experience on BACNET controls, including but not limited to:
 - 2.11.10.7.1 Experience in the measurement, calibration, monitoring, testing and troubleshooting of electronic, pneumatic and electrical control systems.
 - 2.11.10.7.2 Experience must include communication, high speed modems and P.C. based HVAC networking systems.
 - 2.11.10.7.3 Capable of system management, repair and upgrades.
 - 2.11.10.7.4 Capable of creating and modifying graphics.
 - 2.11.10.7.5 Minimum of three (3) years in programming.

- 2.11.10.7.6 Completed at least 400 hours of accredited technical schooling in electronic controls.
- 2.11.10.7.7 Experience must include a minimum of (5) years of Allerton Systems and Tritium control systems.
- 2.11.10.8 <u>IAH Building Controls Technician</u> (Controls BACnet Native) Technician shall have a minimum of four (4) years continuous BAC net Controls experience including but not limited to:
 - 2.11.10.8.1 Capable of systems maintenance/ repair/upgrades.
 - 2.11.10.8.2 Minimum of 200 hours of accredited technical training in electronics or computer programming.
 - 2.11.10.8.3 Able to work with Star-Bus, BACnet Native and other industrial languages.
- 2.11.11 <u>HOU Contractor's personnel shall include professionals in the following job categories and is a</u> shared resource with EFD:
 - 2.11.11.1 <u>HOU Operations Supervisor</u> The Operations Supervisor shall have a minimum of ten (10) years project or similar HVACM experience with verifiable management capability and experience. The Operations Supervisor will report to the Project Manager and shall not be a working technician/mechanic. The Operations Supervisor shall be on duty from 8:30 a.m. through 5:30 p.m., Monday through Friday or as dictated by job requirements.
 - 2.11.11.2 <u>HOU Maintenance Supervisor</u> [(1) per shift] Must have a minimum of five (5) years of experience in Facility Maintenance, including but not limited to the following requirements:
 - 2.11.11.2.1 Three (3) years supervisory experience.
 - 2.11.11.2.2 Universal Recovery Certificate.
 - 2.11.11.2.3 State of Texas A/C License, Class B or higher.
 - 2.11.11.2.4 Working knowledge of Variable Frequency Drives.
 - 2.11.11.2.5 Chemical Treatment knowledge.
 - 2.11.11.2.6 Working knowledge of Building Automation System.
 - 2.11.11.2.7 Experience with Pneumatics Control Systems and Compressors.
 - 2.11.11.2.8 Building Chilled Water and Hot Water Repair experience.
 - 2.11.11.2.9 Experience with repair and operation of Heat Exchangers.
 - 2.11.11.2.10 Fundamental Electrical Diagnostic Skills.
 - 2.11.11.3 <u>HOU Maintenance Technicians</u> Contractor must provide 24/7 coverage. Technicians must have three (3) years' experiences in a Facility Maintenance environment exceeding 500,000 square feet. Experience includes but not limited to:
 - 2.11.11.3.1 Maintenance on pumps, air compressors, electrical motors/starter, AHU, Mixing Boxes, Duct Work, Bearing Replacement and Centrifugal Blowers.
 - 2.11.11.3.2 Maintenance Technician are to be assigned full time to terminals and buildings included in this Contract

- 2.11.11.4 <u>HOU Maintenance Technician Helpers</u> Contractor shall provide a sufficient number of Maintenance Technician Helpers and must have at least one (1) year experience in a Facility Maintenance environment.
- 2.11.11.5 <u>HOU Building Controls Technician</u> (Controls BACnet Native) Technician shall have a minimum of five (5) years continuous BAC net Controls experience including but not limited to:
 - 2.11.11.5.1 Capable of systems maintenance/ repair/upgrades.
 - 2.11.11.5.2 Minimum of 200 hours of accredited technical training in electronics or computer programming.
 - 2.11.11.5.3 Experience must include at least three (3) years of Allerton Systems.
 - 2.11.11.5.4 Able to work with Star-Bus, BACnet Native and other industrial languages.

2.11.12 EFD Personnel

- 2.11.12.1 The Contractor shall furnish adequate documentation of the assigned personnel's qualifications for the on-site crew and obtain written approval of acceptance of such qualifications by the Director. Contractor may change personnel only with equally qualified personnel as approved by the Director.
- 2.11.12.2 HVAC requirements at Ellington Airport will be handled by personnel from HOU and supported by all Contractor.
- 2.11.12.3 EFD DX Mechanic Must have minimum of five (5) years of continuous HVAC installation/repair experience including, but not limited to:
 - 2.11.12.3.1 Journeyman Level Experience.
 - 2.11.12.3.2 Minimum of two (2) years servicing and repair commercial air conditioning.
 - 2.11.12.3.3 Universal Refrigerant Recovery License.
 - 2.11.12.3.4 State of Texas Class B Contractor's License or higher.

2.12 HOUSEKEEPING DUTIES (AT ITS OWN EXPENSE)

2.12.1 Contractor shall maintain all HVAC Equipment, Air Handler, and DX Equipment Rooms free of trash and debris daily. Equipment rooms must be cleaned, mopped, vacuumed and maintained on a quarterly basis.

2.13 CONTRACTOR SHALL PROVIDE (AT ITS OWN EXPENSE)

- 2.13.1 All office furniture and incidentals required for Contractor's operation including but not limited to compatible PC's, copy machines, fax machine, cell phones, office supplies, and miscellaneous equipment. Contractor shall remove all Contractor owned furniture and equipment upon termination or expiration of the Agreement.
- 2.13.2 All expendable items required for the proper operation and maintenance of the facilities. Expendable items include, but are not limited to, the following: mops; floor cleaning agents; paper towels; soap; brooms; toilet tissue; paper, etc.
- 2.13.3 All telephone lines will be provided by the City, but all cost for use thereof will be at Contractor's expense.
- 2.13.4 Contractor shall, at its own expense, replace damaged or lost material, parts, equipment, etc., and repair damaged parts of the Work or facility.

2.14 UNIFORMS

2.14.1 Contractor's personnel shall present a clean and neat appearance. Contractor's personnel shall wear a Contractor furnished uniform with Contractor's name clearly displayed on the front of the shirt and seasonal outerwear approved by the Director.

2.15 **TRAINING**

- 2.15.1 The Contractor's training program must be directed towards developing appropriate levels of expertise for skilled trades and management/supervisory personnel in order that they have the expertise to maintain HVAC Systems in accordance with the practices described in the latest release of the Operations & Maintenance Best Practices developed by the U.S. Department of Energy. The training program must include both comprehensive training needs analysis and subsequent training by staff professionals.
- 2.15.2 The Contractor shall provide the Director with quarterly and annual training documentation, by employee, with topic and hours. This shall be considered an operational report. Failure to provide this report will result in the application of liquidated damages in accordance with Section 3.18 of this contract. All costs for training must be provided by Contractor as part of O&M Services.
- 2.15.3 Training needs analysis and training for skilled trades must include, but not be limited to:

2.15.3.1	Air Condition & Refrigeration
2.15.3.2	Applied Mech. Maintenance
2.15.3.3	Applied Welding
2.15.3.4	Fundamental Electricity
2.15.3.5	Fundamental Mechanics
2.15.3.6	Blueprints & schematics
2.15.3.7	Building and grounds maintenance
2.15.3.8	Computer Skills
2.15.3.9	EEO/Mayor's office of business opportunity
2.15.3.10	Employee Counseling
2.15.3.11	Energy Management
2.15.3.12	Electric Troubleshooting
2.15.3.13	Equipment Installation
2.15.3.14	Energy Conservation
2.15.3.15	Electronics
2.15.3.16	Electric Systems
2.15.3.17	Federal State and Local codes
2.15.3.18	Hydraulic, Pneumatic, Electric Systems
2.15.3.19	Human Resources
2.15.3.20	Job Estimating
2.15.3.21	Labor Relations
2.15.3.22	Lubrication
2.15.3.23	Mathematics and Measurement
2.15.3.24	Preventive Maintenance
2.15.3.25	Safety and PPE

2.16 **FACILITIES AND SERVICES PROVIDED BY HAS**

2.16.1 Utilities

- 2.16.1.1 HAS will provide all electricity and natural gas required for the operation of HVAC. The existing service and distribution facilities for electricity and natural gas are in place and connected to the equipment.
- 2.16.1.2 HAS will provide water necessary for use in the HVAC and for Contractor's employees on site.
- 2.16.2 <u>480V Electrical Distribution</u> HAS' responsibility for power distribution is limited to service to the main 480-volt disconnect switches; there is currently a switch in each Terminal.
- 2.16.3 Non-Hazardous Solid Waste Pickup No contractor waste will be disposed in HAS dumpsters. Disposal of hazardous, unusual (or) heavy items, and filters are the sole responsibility and cost of Contractor.
- 2.16.4 Fire Safety Equipment HAS will maintain existing fire extinguishers.
- 2.16.5 Office, Maintenance, and Storage Area If space is available, HAS may provide an office, maintenance, and storage areas. If space is not available, Contractor will be responsible for locating space at no additional cost to the city while adhering to all contractual requirements (i.e., response times). Contractor shall provide, at its expense, any additional required facilities. Contractor shall be responsible for all housekeeping of such facilities including, but not limited to, sweeping, washing, cleaning, waxing, painting, dusting, etc., of all areas, fixtures, and equipment.
- 2.16.6 Access to Work Areas Subject to HAS rules and regulations, Contractor may enter and leave work sites at all reasonable times. Contractor and its employees may use the common areas and roadways at the Airport where the work sites are located. This excludes parking for Contractor's personnel. All Contractor personnel must be badged. Contractor shall repair any damage it or its employees cause as a result of its use of the common areas.

2.17 **COORDINATE PERFORMANCE**

- 2.17.1 <u>HAS Contact</u> Contractor shall coordinate its performance with such person(s) as the Director designates in writing to Contractor. Contractor shall keep said person(s) currently advised of developments relating to the performance of the Agreement.
- 2.17.2 Pre-Performance Conference Thirty (30) days prior to commencing performance under the Agreement, Contractor shall attend a pre-performance conference with the Director and other representatives of HAS. The Director shall specify the time and place of such meeting in a written notice to Contractor. Representatives of Contractor attending the pre-performance conference include, but are not limited to, the Project Manager whom Contractor has assigned to the Agreement, together with an officer of Contractor who is authorized to bind Contractor in matters relating to the pre-performance conference items listed below to the extent the Project Manager is not so authorized to bind Contractor. In the above-mentioned notice, the Director may, in his sole discretion, further designate other representatives of Contractor who must attend the pre-performance conference and such designated representatives shall attend same. Items to be addressed at the pre-performance conference include, but are not limited to, the following:
 - 2.17.2.1 Phase-in and Start-up schedules.
 - 2.17.2.2 Contract administration.
 - 2.17.2.3 Facilities utilization.
 - 2.17.2.4 Channels of communication.
 - 2.17.2.5 Review of key personnel resumes and certifications.
 - 2.17.2.6 Organization and function charts reflecting the line of management authority.

- 2.17.2.7 Procedures to be used to ensure Agreement requirements are met (Quality Control Program).
- 2.17.2.8 Transition Planning, including the existing EAMS and spare parts management.
- 2.17.3 <u>Coordination Meetings</u> Throughout the Agreement Term and any extensions hereto, Contractor shall meet with the Director to identify and resolve performance issues. Meetings will be scheduled monthly or as determined by the Director. Notice of any such meeting may be given by the Director to Contractor either orally or in writing and will designate the time, date, location, Contractor attendees, and general purpose. The Contractor's designated attendees shall be present at any such performance meeting for its duration and shall prepare a typed agenda covering the topics to be discussed; keep minutes of the meetings in a form satisfactory to the Director; and issue copies of the minutes to all attendees within three (3) business days of each meeting.

2.18 PHASE-IN/PHASE-OUT SERVICES

2.18.1 Contractor's Phase-In

- 2.18.1.1 In order to accomplish a smooth and successful transition of operations and maintenance services and at no extra charge to the City, Contractor shall provide Phase-in services for up to thirty (30) days prior to Agreement expiration.
- 2.18.1.2 Contractor's Phase-In period begins upon receipt of a "Start Phase-in Notice" from the Director and continues until receipt of "official Notice to Proceed" (Start Date of the Contract). The "Start Phase-in Notice" is different than the official Notice to Proceed. Contractor shall have no responsibilities for operating or maintaining the HVAC during the Phase-in period.
- 2.18.1.3 During the phase-in period, the successful Contractor shall have access to the facilities and areas covered by the Agreement, access to personnel, and allowed to observe all operations.
- 2.18.1.4 The incumbent Contractor will perform the duties and services listed in its contract during the Contractor's Phase-In period and will be available during the phase in period to answer questions and resolve issues or any misunderstandings.
- 2.18.1.5 The Contractor shall provide during Phase-in period, all required deliverables including but not limited to:
 - 2.18.1.5.1 At or within 60 days after "Start Phase-in Notice", Contractor shall survey the equipment listed in Attachment "C" and the buildings listed in Attachment "D" and provide a list of discrepancies to HAS in a report titled, "Existing Building/Equipment Discrepancies Report." The Existing Building/Equipment Discrepancies Report will be used to reconcile differences in the Contractor's bid items and EAMS.
 - 2.18.1.5.2 At or within 60 days after "Start Phase-in Notice", Contractor shall have completed an assessment of the condition of the equipment listed in Attachment "C" and provide a list of specific deficiencies to HAS in a report titled, "Existing Conditions Report". The Existing Conditions Report defines deficiencies, that when corrected, establishes the "baseline" equipment operating condition for the contract. If no report is submitted, it is assumed the existing equipment has no operating condition deficiencies and all deficiencies that occur 60 days after NTP will be the responsibility of the Contractor as part of the base bid.
 - 2.18.1.5.3 Arrange to have necessary supervisory, technical, and other personnel on site at the Airports to observe the operation and maintenance of the HVAC.

- 2.18.1.5.4 Recruit and transfer personnel, train personnel, arrange for security badging.
- 2.18.1.5.5 Establish management procedures, set up records, ensure adequate parts, tools and equipment in place for systems operation and maintenance.
- 2.18.1.5.6 Prepare for the assumption of technical control without disruption of operations.
- 2.18.1.5.7 Develop and implement a full project schedule detailing the responsibilities of assigned personnel and submit it to the Director for approval. Submit to HAS Preventive Maintenance plans. Refer to Section 3.6.
- 2.18.1.5.8 Coordinate Contractor's activities with Director.
- 2.18.1.5.9 Final transition and training plan addressing the Contractor staffing strategies in determining the necessary staffing and supervision required for compliance with the specified services.
- 2.18.1.5.10 Emergency phone numbers and verification of cell phones.
- 2.18.1.5.11 Certification of all Contractor Personnel requirements and training.
- 2.18.1.5.12 Reporting and approach plans.
- 2.18.1.5.13 Inventory of HVAC Assets and supplies, materials, tools, equipment, etc., necessary to start.
- 2.18.1.5.14 Standard Operating Procedures (SOP).
- 2.18.1.5.15 Permits, licenses and certifications.
- 2.18.1.5.16 Security approval and access.
- 2.18.1.5.17 Contractor & Subcontractor agreements in place.
- 2.18.1.6 The Phase-in period will end twenty-four (24) hours prior to the effective contract start date shown in the official Notice to Proceed, at which time Contractor shall assume full responsibility for the operation and maintenance of all HVAC equipment. The Contractor shall be prepared to perform fully all Work services upon receipt of notification to proceed document from the Director.
- 2.18.1.7 Within one (1) month after the Agreement start date, the Contractor shall certify to the Director in writing that 100% of the Contractor's employees (fully trained and experienced) necessary for the effective and timely accomplishment of the Contractor's obligations under the Agreement are in place, and all Contractors, if any, necessary for the effective and timely performance of the Contractor's obligations under the Agreement have been engaged by the Contractor and have commenced work under their respective Contractors.

2.18.2 Contractor's Phase-Out

- 2.18.2.1 At 365 days prior to Agreement expiration, the Contractor shall submit a comprehensive close-out plan which will include a complete list of current activities and status, projected activities scheduled and impacts, staffing requirements, summary of the last 12 months of Monthly Reports, and list all aircraft support systems. The listing of equipment must include identification number, description, location, model/serial number, area served, condition, and age of the equipment to the Director.
- 2.18.2.2 At 180 days prior to Agreement expiration, the Contractor shall provide a third-party performance audit at Contractor's expense. Contractor shall rectify any

deficiencies in performance discovered by such audit for which Contractor is responsible under this Agreement to the Director's satisfaction at no cost to the City. Further, the Contractor shall provide the Director with a written explanation for such deficiency in performance and a plan to prevent future deficiencies with fifteen (15) days of receipt of such notice.

- 2.18.2.2.1 The cost for third party audits will be at the Contractor's expense. An Independent and qualified third-party agency must be selected by the Contractor and approved by HAS. All reports must be sent directly to the Contractor with copies to HAS.
- 2.18.2.2.2 Any deficiencies discovered by third party audits which are the responsibility of Contractor, must be rectified by the Contractor at no cost to the City. Correction/Work shall commence within thirty (30) working days of receipt of the notice of any such deficiency. Contractor shall provide the Director with a written explanation for such deficiency in performance and a plan to prevent future such deficiencies within fifteen (15) days of receipt of such notice.
- 2.18.2.2.3 Failure of Contractor to correct deficiencies covered under the terms of the Agreement may be used by the Director as grounds for application of liquidated damages or ·termination of the Agreement within the meaning of the general provisions entitled "Default.". Refer to Term and Termination. within the executed Agreement after award.
- 2.18.2.3 At 90 days prior to 90 days prior to Agreement expiration, the Contractor shall certify in writing to the Director that all deficiencies have been corrected.
- 2.18.2.4 <u>Equipment Condition at Expiration</u> Prior to expiration of the Agreement, the Contractor shall repair any equipment not in acceptable maintenance condition and perform scheduled PM work on all equipment up to the then current date in accordance with approved PM schedules.
- 2.18.2.5 Prior to expiration of the Agreement, the Contractor shall repair any equipment not in acceptable maintenance condition and perform scheduled PM work on all equipment up to the then current date in accordance with approved PM schedules.
- 2.18.2.6 In order to accomplish a smooth and successful transition of operations and maintenance services and at no extra charge to the City, the Contractor shall provide Phase-out services for up to thirty (30) calendar days following the successor's receipt of "Start Phase-in Notice" from the Director and continue until successor's receipt of "official Notice to Proceed". Phase-out orientation comprises a maximum of 30 working days, 8 hours per day for successor's personnel. Orientation includes, but is not limited to, system operations and maintenance procedures, record keeping, reports, and procurement procedures, etc. Contractor shall be totally responsible for providing the services under this Agreement during its Phase-out period. Incumbent Contractor shall cooperate with its successor Contractor in allowing as many personnel as practical to remain on the job in order to enhance the continuity and consistency of the services in the executed Agreement.
- 2.18.2.7 Contractor shall disclose necessary personnel records and allow its successor to conduct on-site interviews with its employees, provided Contractor obtains the consent of said employees to disclose their records and to conduct such interviews and provided such disclosure and interviews are conducted in accord with all applicable laws, statutes, rules, regulations, and ordinances, which have been passed, enacted or promulgated by any governmental body having

jurisdiction over such matters. The Contractor shall provide all required deliverables including, but not limited to:

- 2.18.2.7.1 List of qualified employees working at the Airport.
- 2.18.2.7.2 Reporting requirements.
- 2.18.2.7.3 Inventory of supplies, materials, tools and equipment.
- 2.18.2.7.4 Current Standard Operating Procedures.
- 2.18.2.7.5 Permits, licenses, and certifications.
- 2.18.2.7.6 Detailed transitions plan.
- 2.18.2.7.7 Deficiency status list and summary of all open maintenance work orders for all equipment covered by the agreement as documented in the HAS EAMS.
- 2.18.2.8 Contractor must have a Third-Party Audit of equipment specified by the Director performed during Contractor phase out. In addition, HAS may at its discretion, request a third-party audit, no more than once a year. A third-party audit company must be approved by the Director.
- 2.18.2.9 Third Party Audits must verify Operation and Maintenance of all Aircraft Support Systems to include, but not limited to:
 - 2.18.2.9.1 Operation & maintenances of all assets.
 - 2.18.2.9.2 Preventive Maintenance.
 - 2.18.2.9.3 Condition of equipment.
 - 2.18.2.9.4 Water Testing and Backflow Preventer Inspection Programs.
 - 2.18.2.9.5 Proficiency/accuracy of work performed by Contractor's employees.
 - 2.18.2.9.6 Housekeeping.
- 2.18.2.10 Prior to the expiration of the Agreement, after selection of a successor contractor, the incumbent Contractor and the successor Contractor shall jointly prepare a mutually agreeable detailed plan for approval by the Director for the phase-out of the incumbent Contractor and the phase-in of the successor Contractor.

2.19 NOTICE TO PROCEED (NTP) REQUIREMENTS

- 2.19.1 Within thirty (30) days after the NTP, the Contractor shall submit an emergency procedures plan for the Director's approval. This plan shall contain procedures in advance for all foreseeable emergency situations including but not limited to, personal injuries, sickness, vandalism, intoxication, fire, smoke, power outage, etc. Emergency procedures shall include communications with the Airports and coordination with Airport emergency procedures.
- 2.19.2 Within thirty (30) days after the NTP, the Contractor shall certify to the Director in writing that 100% of the Contractor's employee (fully trained and experienced) necessary for the effective and timely accomplishment of the Contractor's obligations under the agreement are in place, and all Contractors, if any, necessary for the effective and timely performance of the Contractor's obligations under the agreement have been engaged by the Contractor and have commenced work under their respective Contractors.
- 2.19.3 Within sixty (60) days after the NTP, the Contractor shall provide a list of the proposed tools, instruments, and equipment, including test/calibration/diagnostic equipment, tools, and supplies etc., to be provided and used as part of the Agreement.

2.20 **SECURITY AND BADGING**

- 2.20.1 Contractor shall comply with all applicable Federal rules governing security at the Airport, as may be amended from time to time.
- 2.20.2 All on-site personnel of Contractor, including contractors, who perform services under the Agreement, are required to undergo a fingerprint-based criminal history records check. Fingerprints are collected at the Airport Badging Office and submitted electronically for investigation. The Project Manager shall have additional training at HAS to approve badging requests for Contractor personnel.
- 2.20.3 Contractor shall obtain HAS security badges for its personnel performing services on-site, including its Contractor's personnel. On-site personnel shall always wear identification badges while on Airport property. Costs for the fingerprint-based criminal history records check are reflected in the cost of the badges. Contractor is responsible for the cost of badges, including replacements thereof. Contractor personnel losing badges will be charged for replacement badges at the then current rate.
- 2.20.4 Contractor acknowledges that fines or penalties associated with non-compliance with security regulations must be reimbursed to HAS.
- 2.20.5 <u>Airport Customs Security Area Bond:</u> Contractor shall obtain an Airport Customs Security Area Bond in order to have access to the Federal Inspection Services (FIS) located at George Bush Intercontinental Airport (IAH) and William P. Hobby Airport (HOU).

2.21 **INVOICING**

- 2.21.1 Contractor shall submit its invoices for work completed on a form(s) and format approved in advance by the Director; invoices must be accompanied by support documents requested by the Director.
- 2.21.2 Each invoice submitted must be in duplicate and each copy must include required attachments. The invoice must be identified by the Agreement name and Agreement number. All invoices are to be delivered or mailed to the following location:

City of Houston Houston Airport System Finance Division/Accounts Payable P.O. Box 60106 Houston, Texas 77205-0106

- 2.21.3 The Houston Airport system will accept invoices submitted electronically along with required support information, such as Outline Agreement Number(s), Service Release Orders (SRO) Numbers, etc. Each invoice should be in an electronic format. Multiple invoices can be submitted in a single email.
- 2.21.4 Requirements are as follows:
 - 2.21.4.1 Submit to has.accountspayable@houstontx.gov
- 2.21.5 Invoices submitted for services performed as the result of Change Orders shall require copies of the applicable Change Order attached to the original invoice.
- 2.21.6 Invoices submitted for services performed as the result of Other Work/Services shall include a copy of the Director's written request.

2.22 TRANSPORTATION AND PARKING

2.22.1 Contractor shall park its vehicles in areas designated by Director at its own cost. All transportation activities of Contractor or its Contractor necessary to perform under the Agreement must be provided by Contractor.

2.22.2 All of Contractor's vehicles, including those owned by its employees and contractors, must be clearly marked with identification indicating Contractor's name. Such identification must be placed on both sides of each vehicle and may be removable, e.g., magnetic.

2.23 CONTRACTOR'S RADIO COMMUNICATIONS REQUIREMENTS

- 2.23.1 Contractor shall operate the radios within protocols established by HAS and the FAA.
- 2.23.2 HAS will provide the Contractor with handheld radios (2 at IAH & 1 at HOU) equipped with batteries and chargers for Contractor's use on this contract. The radios will be programmed to transmit and receive on Harris County trunked frequencies. Upon cancellation or termination of Agreement, the Contractor shall return all radios to HAS. At all times, the radios remain the property of the City.
- 2.23.3 Contractor shall pay for time and materials to repair any damaged radio(s) and full replacement costs for any radio(s) that are lost.

2.24 **SAFETY**

- 2.24.1 Contractor shall not require any person to work in surroundings or under working conditions that are unsanitary, hazardous, or dangerous to their health or safety. Contractor shall comply with all provisions of the Occupational Health and Safety Act (OSHA) and HAS safety standards.
- 2.24.2 Contractor shall be completely familiar with, and shall enforce all HAS, City, State of Texas and Federal OSHA regulations and requirements as applicable, including, but not limited to, the following:
 - 2.24.2.1 Contractor personnel must always wear applicable personal protection equipment.
 - 2.24.2.2 Contractor personnel operating equipment or handling materials must be fully trained in the safe operation of the equipment or materials.
 - 2.24.2.3 Contractor personnel shall follow and apply safety practices prevailing in their applicable industry.
 - 2.24.2.4 Contractor shall develop, implement and maintain an on-going safety program concerned with equipment, maintenance work, and related procedures. Contractor should present a written Safety Program (including contractors' services) to Director for approval no later than 60 days after Notice to Proceed. This shall include Security Identification Display Area (SIDA) training for IAH, HOU, and EFD. Contractor shall post safety warnings on equipment as necessary to ensure safe operations. Contractor shall not operate, install, or test any equipment in an unsafe condition. Contractor shall properly operate and maintain all safety equipment associated with its services.
 - 2.24.2.5 When Contractor becomes aware of a hazardous or potentially hazardous condition during performing services, Contractor shall verbally notify HAS. Contractor shall immediately make such notification upon detection of the condition. Contractor shall detail conditions along with non-hazardous conditions and recommendations in its quarterly report.

2.25 **SAFETY DATA SHEETS (SDS)**

2.25.1 The Contractor shall furnish to each HAS designee on all SDS, (OSHA Form 174), for each product used in each facility. A Safety Data Sheets must accompany each product shipment to the facilities. SDS should be stored and displayed per OSHA standards.

2.26 **CONTROL OF PREMISES**

2.26.1 Contractor equipment brought into the facilities must not exceed the engineered floor load capacities of the facilities. Operations and maintenance areas must be limited to Contractor's

- personnel and HAS employees. Access to the premises must be strictly controlled and Contractor shall keep a record of all keys distributed to its personnel. Officers, employees or agents of Contractor shall never enter restricted or operational areas of the Airport without the express permission of the Director or any other governmental bodies having jurisdiction, and Contractor hereby assumes full liability arising from any such unauthorized incursions.
- 2.26.2 All equipment PM sheets, schedules, and other records must be available in EAMS at for inspection by HAS personnel. All documents generated or obtained by Contractor that pertain to the operation and maintenance of the HVAC and equipment shall become HAS property upon Agreement expiration or termination. All such documents shall be transferred to the Director within ten (10) days of expiration or termination. All records must also be available in EAMS.

2.27 INCLUSION/EXCLUSION

2.27.1 Adjustment to the Fee Schedule shall be allowed only when the cumulative change is greater or less than 10% of the contract value of the total O&M services at all three airports with the Contractor being responsible to monitor and value the changes to determine when the threshold is met. Historically the cost has been less than ½ percent the value of total O&M services at all three airports.

2.27.2 Contractor Valuation Process

- 2.27.2.1 The EAMS will establish the required Preventive Maintenance / Corrective Maintenance baseline labor hours by type of equipment which must be approved in writing by the Director.
- 2.27.2.2 If no EAMS historical data is available, the accepted source is Facilities Maintenance & Repair Cost Data, latest edition R.S. Means Company or later version and/or another HAS approved source.
- 2.27.2.3 Baseline staff hours will be based on productive hours. Assuming 2080 total hours per year productive hours equal 2080 with actual tool time at 65% or 1352 hours per year.
- 2.27.2.4 Additions or deletions of equipment that equal labor at or above the trigger point of 1352 hour / year indicating that a fulltime equivalent will be required or in excess of service delivery requirement.
- 2.27.2.5 Contractor Labor cost will be adjusted based on actual labor cost (addition/deletion) x 1.35%.
- 2.27.2.6 Additions: Contractor shall accurately document materials used and project costs for a 12-month period following additions, to be verified by HAS. The contract amount will be adjusted for the remainder of the contract term following the verification by HAS.
- 2.27.2.7 <u>Deletions:</u> Contract will be decreased by an amount equal to the total cost expended by the Contractor for the prior 12 months or applicable measurable period.
- 2.27.2.8 In the case of a large addition or deletion of 250,000 square feet of conditioned space both parties agree to negotiate cost based on the above criteria.

3.0 OPERATIONS & MAINTENANCE (O&M) SERVICES

3.1 Three different levels of O&M services are described below. They include Level I Service (Perpetual Best Management Practices), Level II Service (Predictive - Industry Standard), and Level III Service (Reactive - Routine Service). Refer to the latest release of the Operations and Maintenance Best Practice manual (developed by the U.S. Department of Energy) for additional guidelines. In the event

of a conflict between Exhibit A Scope of Work and the DOE Best Practices manual, Exhibit A Scope of Work shall govern.

3.2 <u>LEVEL I SERVICE (PERPETUAL – BEST MANAGEMENT PRACTICES LOS)</u>

- 3.2.1 Individual assets or systems included in the Level I Service will be maintained through Reliability-Centered Maintenance (RCM) protocols. As part of Level I Service, the contractor shall maintain the individual asset and/or system to a level in which it retains its' original Day One expected life cycle. In other words, the life cycle for the asset and/or individual system never declines when a Level I Service is maintained.
- 3.2.2 Contractor shall provide continuous on-site supervision and on site staffing necessary to provide specified HVAC operation and maintenance services to include:
 - 3.2.2.1 IAH Twenty-four (24) hours-per-day, seven (7) days per week, 365 days per year, including holidays.
 - 3.2.2.2 HOU Twenty-four (24) hours-per-day, seven (7) days-per-week, 365 days per year, including holidays.
 - 3.2.2.3 EFD Eight (8) hours-per day, Monday Friday. When requested by Director, Contractor shall provide weekend and after-hours service from HOU.
- 3.2.3 Upon appropriate HAS notification, on-site response time of fifteen (15) minutes or less for critical systems and two (2) hours or less for non-critical systems is required.
 - 3.2.3.1 Implementation of Reliability Centered Maintenance Protocols.
 - 3.2.3.2 Utilize the HAS Enterprise Asset Management System (EAMS) including maintenance trending and tracking to reduce repair costs and optimize system operation efficiency (Refer to Section 2.10, Records and Reports). The contractor is responsible for training and familiarization of HAS current Enterprise Asset Management System (EAMS) software. For the duration of the contract, the contractor is also required to attend HAS EAMS training regarding the EAMS hierarchy familiarization, user/security rights, and other HAS approved workflow processes. HAS EAMS training includes 4-8 hours per EAMS user. Contractor shall comply with HAS standards, policies and procedures to include, but not limited to: HAS EAMS Policy and Procedures, HAS Design Standards, and HAS Sustainability/Sustainable Asset Management Policy.
 - 3.2.3.3 Utilize Sustainable practices including retro-commissioning and measurement and verification to return systems back to optimum operations.
 - 3.2.3.4 Performance penalties assessed for non-attainment of service (Refer to Section 3.18, Liquidated Damages).
 - 3.2.3.5 Preventive and Planned Maintenance Programs (Refer to Section 3.6, Preventive Maintenance and Section 3.13, Reliability Centered Maintenance (RCM).
 - 3.2.3.6 Documented routine corrective maintenance (Refer to Section 2.10, Records and Reports).
 - 3.2.3.7 Perform Preventive and planned maintenance to reduce O&M costs and unplanned system outages (Refer to Section 2.3 and 3.6).
 - 3.2.3.8 Enhance comfort levels for building occupants (Refer to Section 3.12, Environmental Conditions).

3.2.4 Implementation of Best Practices

- 3.2.4.1 Contractor shall implement industry best practices service through use of documented policies, procedures, processes, and employee training programs in accordance with the latest release of the Operations & Maintenance Best Practices developed by the U.S. Department of Energy.
- 3.2.4.2 Contractor's industry best practices shall include, but not be limited to the following:
 - 3.2.4.2.1 A central Help Desk to provide a focal point for operations planning, scheduling, communications with Contractor's customers, and control of all contract activities; and provide an integrating function for all HVAC program activities including a priority response system and fail-safe process to ensure the Contractor responds in the allotted time.
 - 3.2.4.2.2 Efficient deployment and optimum use of all modules and capabilities of the EAMS that includes electronic documentation and reporting of all HVAC activities.
 - 3.2.4.2.3 An organizational model and work schedules that integrate all elements of strategic site leadership, field supervisory, customer service, and technical responsiveness.
 - 3.2.4.2.4 A model and management approach that considers and fosters internal departmental and external process handoffs, communications, teamwork, and process improvements.
 - 3.2.4.2.5 A Reliability Centered Maintenance (RCM) strategy
 - 3.2.4.2.6 Level I Service should include performance measurement governed by the methodologies and techniques defined in the current revision of the International Performance Measurement and Verification Protocol (IPMVP).
 - 3.2.4.2.7 Employee-training program that ensures Contractor's employees remain highly skilled and proficient.
 - 3.2.4.2.8 Contractor's continuous improvement that incorporates the latest advances in Quality and Customer Satisfaction programs.

3.2.5 Capital Projects, Tenant Improvement Projects (TIPS), and Job Order Contract (JOC)

- 3.2.5.1 Contractor shall assist IAH, HOU, and EFD as requested, each time there is a Capital Project, Tenant Improvement Project, or a Job Order Contract (JOC). Contractor shall observe in a non-supervisory capacity, all work relating to HVAC. Contractor shall conduct routine walk-through from time to time and report back to the Airport any work that is not compliant to applicable codes or in the Contractor's opinion not in the best interest of the Airport. At completion of project, the Contractor shall do a final walk-through with project Contractor's representative and notify the Director in writing of any deficiencies.
- 3.2.5.2 Contractor to assist with any 3rd party audits, assessments and retrocommissioning by providing escort access to mechanical rooms and supervised access to BAS, as needed at no additional cost to HAS.

3.3 LEVEL II SERVICE (PREDICTIVE – INDUSTRY STANDARD)

- 3.3.1 Individual assets or systems included in the Level II Service will be maintained through the conduct of planned and Preventive Maintenance (PM) recommended by original equipment manufacturer (OEM). The primary objective of the Level II Service is to provide ongoing planned, Preventive and corrective maintenance on the asset and/or individual system such that the original life cycle is achieved.
- 3.3.2 Contractor shall provide continuous on-site supervisor and on-site staffing necessary to provide specified HVAC operation and maintenance services to all specified facilities. Services to include:
 - 3.3.2.1 IAH Twenty-four (24) hours-per-day, seven (7) days per week, 365 days per year, including holidays.
 - 3.3.2.2 HOU Twenty-four (24) hours-per-day, seven (7) days-per-week, 365 days per year, including holidays.
 - 3.3.2.3 EFD Eight (8) hours-per day, Monday Friday. When requested by Director, Contractor shall provide weekend and after-hours service from HOU
 - 3.3.2.4 Upon appropriate HAS notification, on-site response time of fifteen (15) minutes or less for critical systems and two (2) hours or less for non-critical systems is required.
- 3.3.3 Perform only Preventive and Level II/corrective planned maintenance.
- 3.3.4 Utilize the HAS Enterprise Asset Management System (EAMS) including maintenance trending and tracking to reduce repair costs and optimize system operation efficiency (Refer to Section 2.10 Records and Reports). The contractor is responsible for training and familiarization of HAS current Enterprise Asset Management System (EAMS) software. For the duration of the contract, the contractor is also required to attend HAS EAMS training regarding the EAMS hierarchy familiarization, user/security rights, and other HAS approved workflow processes. HAS EAMS training includes 4-8 hours per EAMS user. Contractor shall comply with HAS standards, policies and procedures to include, but not limited to: HAS EAMS Policy and Procedures, HAS Design Standards, and HAS Sustainability/Sustainable Asset Management Policy.
- 3.3.5 Performance Penalties only assessed for specific non-attainment items.
- 3.3.6 Capital Projects, Tenant Improvement Projects (TIPS), and Job Order Contract (JOC)
 - 3.3.6.1 Contractor shall assist IAH, HOU, and EFD as requested, each time there is a Capital Project, Tenant Improvement Project, or a Job Order Contract (JOC), Contractor shall observe in a non-supervisory capacity, all work relating to HVAC. Contractor shall conduct routine walk-through from time to time and report back to the Airport any work that is not compliant to applicable codes or in the Contractor's opinion not in the best interest of the Airport. At completion of project, the Contractor shall do a final walk-through with project Contractor's representative and notify the Director in writing of any deficiencies.
 - 3.3.6.2 Contractor to assist with any 3rd party audits, assessments and retrocommissioning, by providing escort access to mechanical rooms and supervised access to BAS, as needed at no additional cost to HAS.

3.4 LEVEL III SERVICE (REACTIVE – ROUTINE SERVICE)

- 3.4.1 Individual assets or systems included in the Level III LOS will be maintained operational through the conduct of required Reactive/corrective maintenance only.
- 3.4.2 Contractor shall provide continuous on-site supervisor and staffing necessary to provide specified operation and maintenance services to include:
 - 3.4.2.1 IAH Twenty-four (24) hours-per-day, seven (7) days per week, 365 days per year, including holidays.
 - 3.4.2.2 HOU Twenty-four (24) hours-per-day, seven (7) days-per-week, 365 days per year, including holidays.
 - 3.4.2.3 EFD Eight (8) hours-per day, Monday Friday. When requested by Director, Contractor shall provide weekend and after-hours service from HOU.
 - 3.4.2.4 Upon appropriate HAS notification, on-site response time of fifteen (15) minutes or less for critical systems and two (2) hours or less for non-critical systems is required.
- 3.4.3 Contractor to assist with any 3rd party audits, assessments and retro-commissioning by providing escorts and access to mechanical rooms and supervised access to BAS as needed.
- 3.4.4 Level III Reactive/Corrective Maintenance will be provided by HAS In-House staff. Contractor will provide OSR support for all Levels.
- 3.4.5 Utilize the HAS Enterprise Asset Management System (EAMS) including maintenance trending and tracking to reduce repair costs and optimize system operation efficiency (Refer to Section 2.10 Records and Reports). The contractor is responsible for training and familiarization of HAS current Enterprise Asset Management System (EAMS) software. For the duration of the contract, the contractor is also required to attend HAS EAMS training regarding the EAMS hierarchy familiarization, user/security rights, and other HAS approved workflow processes. HAS EAMS training includes 4-8 hours per EAMS user. Contractor shall comply with HAS standards, policies and procedures to include, but not limited to: HAS EAMS Policy and Procedures, HAS Design Standards, and HAS Sustainability/Sustainable Asset Management Policy.

3.5 **DUTIES OF CONTRACTOR - O&M SERVICES**

3.5.1 Division of Responsibility – Level I, Level II, and Level III

- 3.5.1.1 Contractor shall make all routine operation and maintenance decisions. Changes in operation and maintenance philosophy, schedules, and the existing preventive maintenance program must be mutually agreed to in writing by the Director and the Contractor.
- 3.5.1.2 The Director reserves the right to make final decisions related to HVAC operation and maintenance. If the Director chooses to override the Contractor's decisions, the Director shall inform Contractor in writing.

3.5.2 <u>Direct Digital Control System - Level II, Level II, and Level III</u>

- 3.5.2.1 Contractor shall operate, maintain, and repair direct digital control systems (BACnet, Allerton, & Tritium, etc.) where applicable at all three Airports.
- 3.5.2.2 Contractor shall be responsible for the Level I, Level II, and Level III maintenance services of the Building Automation System (BAS) system CPU/executive

controllers, hardware and software to include system software upgrades within current generation software revision levels. Contractor shall perform Level I, Level II, and Level III maintenance services of all ancillary components such as inputoutput devices, unitary controllers, and sensors.

- 3.5.2.3 Contractor shall maximize the use of the BAS to minimize the consumption of energy and to ensure environmental conditions are appropriate as required herein for the various space and areas within the Airport's facilities. Contractor shall use the BAS for building operational strategies, monitoring, and diagnostics. Contractor shall ensure all components software and hardware of the BAS are fully operational and the system is maintained in accordance with the manufacturer's requirements.
- 3.5.2.4 Fully qualified and certified technicians with experience on the same or similar type systems shall perform all preventive and repair maintenance on the BAS systems. All maintenance on the BAS must be accomplished in accordance with the original equipment manufacturers (OEM) specifications and recommendations as documented in the BAS Operations Manual and attendant notices and amendments. Daily operation of the system must be in accordance with the OEM operations manual and controls strategies. Routine daily operational checks and tests of the system must be performed by personnel who are trained on the operation of the system and any anomalies or malfunctions as a result of the checks/tests or experienced during normal operation must be addressed immediately. Daily operational tests and checks must be documented.
- 3.5.2.5 The BAS shall utilize data trending and storage capabilities to log key performance variables to summarize energy efficiency and operational performance. Performance variables shall be trended on 60-minute intervals to provide adequate granularity of data for energy use and operational trend analysis. Recommended performance variable BAS points to be trended include but are not limited to
 - 3.5.2.5.1 Primary energy meters to track and trend utility data (Electric, Natural Gas, Steam, Water, or other services; consumption or volume on all meters, interval demand on electric meters) where applicable.
 - 3.5.2.5.2 Energy sub-meters to track and trend utility data (Electric, Natural Gas, Water, Heating Btu, Cooling Btu, Steam, or other services; consumption or volume on all meters, interval demand on electric meters) dedicated to specific systems, building segments or equipment where applicable.
 - 3.5.2.5.3 Hot water, chilled water, condenser water, steam control valve positions (Trend can be on 15-minute interval)
 - 3.5.2.5.4 Hot water supply and return temperatures (equipment and/or system specific)
 - 3.5.2.5.5 Hot water supply flow rate (equipment and/or system specific)
 - 3.5.2.5.6 Primary, secondary, tertiary heating and/or cooling pump motor operating status (ON/OFF, start/stop)
 - 3.5.2.5.7 Primary, secondary, tertiary heating and/or cooling pump motor VFD feedback (Hz, % speed)

- 3.5.2.5.8 Outside air temperature
- 3.5.2.5.9 Outside air humidity
- 3.5.2.5.10 Zone air temperatures
- 3.5.2.5.11 Zone air humidity
- 3.5.2.5.12 Occupancy sensors [ON/OFF]
- 3.5.2.6 BAS database maintenance shall be performed by the Contractor on a monthly basis or more frequently as necessary to ensure that trended data storage will not compromise the computer, BAS software or system performance. Trend data files shall be archived using writable compact disk, external hard drives or tape backup system.
- 3.5.2.7 At no cost to HAS, contractor shall request any training or instruction from the BAS vendor to efficiently extract data from the BAS in electronic format for use in common spreadsheet or database software applications such as Microsoft Excel. Development of pre-formatted templates used for summarizing and periodic reporting of energy use and operational trends is the responsibility of the Contractor.
- 3.5.2.8 Energy and operational summaries and calculations developed either in the BAS or software templates are the responsibility of the Contractor. Energy and operational data should be compiled in a manner, so data retrieved from the BAS or field measured data can be assessed relative to predetermined energy and operational efficiency goals as established by the City and/or Contractor.
- 3.5.2.9 Utility rates used to quantify the value of energy use should be consistent with current utility service rate (current City of Houston Utility Rates) for evaluating energy and operational cost savings.
- 3.5.2.10 The senior building controls technician or the next highest supervisor shall be responsible for the day-to-day review of these logs.
- 3.5.2.11 The BAS systems are included in Contractor's Reliability Centered Maintenance methodology. The BAS preventive and repair maintenance plan must be incorporated into and administered through the EAMS.

3.6 PREVENTIVE MAINTENANCE – LEVEL I, LEVEL II, & LEVEL III

- 3.6.1 EAMS Maintenance Management System driven schedule of planned maintenance actions on HVAC in accordance with OEM equipment manufacturer's instructions and in accordance with the best preventive maintenance industry practices for the prevention of equipment breakdowns and failures. Contractor shall develop a PM schedule to complete PMs on equipment within the manufacture's recommendations and contracted LOS.
- 3.6.2 The proper implementation of PM and Pd.M. is to be utilized to ensure productive remedial maintenance, reduction of system down time, and effective cost control of system components by the timely planned replacement of components. Conditions to be addressed include, but are not limited to:
 - 3.6.2.1 Air Balancing on new installations
 - 3.6.2.2 Air imbalances
 - 3.6.2.3 Cold Calls

- 3.6.2.4 Control Air losses
- 3.6.2.5 Damage Insulation
- 3.6.2.6 Degraded Painting
- 3.6.2.7 Dirty Coils.
- 3.6.2.8 Dirty Fans / Vents
- 3.6.2.9 Dirty Filters
- 3.6.2.10 Duct Leaks including Insulation
- 3.6.2.11 Exercise isolation valves on Six-month rotations
- 3.6.2.12 Equipment Shutdown
- 3.6.2.13 Equipment Failure
- 3.6.2.14 Excess Vibration
- 3.6.2.15 False Trips
- 3.6.2.16 High Humidity
- 3.6.2.17 Hot Calls
- 3.6.2.18 Loose Belts
- 3.6.2.19 Loose Wiring
- 3.6.2.20 No Belts
- 3.6.2.21 Plugged Strainers
- 3.6.2.22 Poor Calibration
- 3.6.2.23 Pipe Rust, Pipe Failure

3.6.3 Air Cooled Chiller Condenser Coils - Level I, Level II, & Level III

3.6.3.1 Inspect air cooled chiller condenser coils quarterly and clean coils.

3.6.4 Backflow Preventers - Level I & Level II, & Level III

3.6.4.1 Contractor shall certify annually all Airports backflow preventers listed in Attachment C and/or E.

3.6.5 Mechanical Equipment Room Cleaning - Level I & Level II

3.6.5.1 Thoroughly clean all Mechanical Equipment Rooms (MERs) in all facilities throughout the Agreement. This includes floors, walls, mechanical and electrical equipment housings, panels, ductwork, piping, etc. Approximately 141 MER rooms for various sizes.

3.6.6 Charcoal/Potassium Permanganate Filter Media – Level I, Level II, & Level III

3.6.6.1 Replenish all Charcoal/Potassium Permanganate filters every 15 months at minimum regardless of HP rating. Approximately 2,725 cells of various sizes. SEE Section 3.9 below for testing frequency/requirements, test results will determine replenishment of the filter media however in no case will minimum change frequency from last replenishment be preempted.

3.6.7 <u>Air Handling Unit Drain Pans – Level II, Level II, & Level III</u>

3.6.7.1 Install an anti-bacteria agent in the drain pans of all air handlers. (Replenish the substance as needed).

3.6.8 UV Lamps - Level I & Level II

3.6.8.1 Replace all UV lamps once per year or more frequently if required at no additional cost to HAS.

3.6.9 Register and Vents Cleaning – Level I & Level II, & Level III

3.6.9.1 Contractor shall create a cleaning schedule for all Terminals and outbuildings within this contract. One complete cleaning every Six (6) months or when

requested by the Director at no additional cost to HAS. To include all supply grilles and vents and return grilles. Work will be performed between 2100 & 0600 hours.

3.6.10 Painting - Level I

- 3.6.10.1 Contractor shall apply the same type of paint system that currently exists on floors, walls, equipment, piping systems, accessories etc. in accordance with paint manufacturer's recommendations. All unpainted mechanical room floors must be painted or sealed with industrial floor sealant. Contractor shall provide documentation as requested by the Director upon completion.
- 3.6.10.2 All mechanical room floors, equipment, and piping systems, which are currently painted, must be maintained under all LOS Level I, Level II & Level III.
- 3.6.10.3 The following paint systems are recommended by HAS; however, Contractor must obtain the Director's approval of the painting system to be applied prior to performing the Work.

3.6.10.4 Concrete Floors

- 3.6.10.4.1 Epoxy Benjamin Moore (M36/M39) Hi-Build Gloss Coating or City approved equal.
- 3.6.10.4.2 Oil/Alkyd Benjamin Moore (C112) Alkyd Porch & floor Enamel, or City approved equal.

3.6.10.5 Walls (where applicable)

- 3.6.10.5.1 Latex Benjamin Moore (276) Latex Semi-Gloss Enamel or City approved equal.
- 3.6.10.5.2 Oil/Alkyd Benjamin Moore (271) Alkyd Semi-Gloss Enamel or City approved equal.

3.6.10.6 Metal

3.6.10.6.1 Benjamin Moore (M29) Acrylic Semi-Gloss or City approved equal.

3.7 CONTRACTOR PARTS/MATERIALS - LEVEL I, LEVEL II, & LEVEL III

- 3.7.1 Contractor shall be responsible for maintaining a minimum of 10% filter stock.
- 3.7.2 <u>Disposal of Used Parts</u> (THIS PROVISION WILL BE MODIFIEDPOSSIBLY BY LEGAL) Contractor shall dispose of all filters, worn/defective scrap parts, and waste or hazardous materials resulting from the work under the Agreement at Contractor's expense. Handling, transport, and disposal of filters, worn/defective scrap parts, and waste or hazardous materials must be done in such a manner as to ensure the highest level of safety to the environment and to public health and in compliance with all applicable laws and governmental regulations. Contractor shall assume full responsibility and liability for and act prudently in all aspects of handling, transport, and disposal of any hazardous materials, securing all licenses and permits required by law and ensuring that any disposal facilities to which any scrap, waste, or hazardous materials may be moved are in full compliance with federal, state, and local laws and regulations. Worn or defective parts must not be stored on Airport premises. Contractor shall notify the Director when these parts are to be removed from HAS property. Used parts at each Airport at the commencement of the Term of this Agreement are the property of HAS and shall remain at each Airport unless Contractor Is instructed otherwise by HAS.

- 3.7.3 Parts Inventory If the existing Contractor has replacement parts inventory and the incumbent HVAC Contractor is willing to sell all or a part of such inventory, then any arrangements by Contractor to purchase such inventory shall be solely the responsibility of Contractor and HAS shall have no obligations with respect to such purchase. If contractor does arrange to make such purchase, then upon receipt of the Notice to Proceed, the Contractor shall immediately decide to take possession of the incumbent HVAC Contractor's replacement parts inventory. Contractor shall be responsible for knowledge of condition, usability and inventory accuracy of parts purchased from the existing Contractor. Any relocation or storage costs associated with this inventory will be the Contractor's responsibility. This inventory shall become the full responsibility of the Contractor as to its use and disposition. At the end of the Agreement Term, all inventory as referenced shall have been used or remain the property of the Contractor.
- 3.7.4 <u>Parts Storage</u> The spare parts inventory is the responsibility of Contractor. If available, HAS will provide storage rooms.

3.7.5 Obsolescence

- 3.7.5.1 When a part or component of the HVAC system is deemed obsolete by the OEM and no substitute is provided by the OEM, the Contractor shall make all attempts to repair the obsolete components and return it to normal operating conditions. If the Contactor is unable to repair the part or component, the Contractor shall take the following actions:
 - 3.7.5.1.1 Contractor shall complete an OSR (Other Services Request) to replace the obsolete component inclusive of parts, labor, and contractor services.
 - 3.7.5.1.2 HAS shall determine and decide in all instances of obsolescence when a part or component meets the definition of an obsolete part. HAS Decision will be final.
 - 3.7.5.1.3 All modifications to equipment are subject to HAS approval.

3.8 TOOLS, INSTRUMENTS, AND EQUIPMENT - LEVEL I, LEVEL II, & LEVEL III

- 3.8.1 As a part of O&M Services, the Contractor shall provide all supplies, materials, equipment, instruments, and tools required for the Work at Contractor's expense. Materials and equipment shall be of the type and quality used in large-scale airport operations and shall meet the requirements specified herein. The Contractor shall provide a list of the proposed equipment, including test/calibration/diagnostic equipment, tools, and supplies etc., as part of the Agreement.
- 3.8.2 Contractor shall have available "on-site" at all times, test/calibration equipment such as, electronic flow meters, hood vents etc. required to perform testing specified in the Agreement.
- 3.8.3 Contractor shall provide lifts to service and maintain VAV boxes, exhaust systems, etc.
 - 3.8.3.1 IAH Contractor must keep two (2) lifts on-site, size appropriate as per SOW, 24/7 and one (1) lift on-site 24/7 at HOU. Contractor must provide transport of lifts around airport complex within two (2) hours as needed.
- 3.8.4 Contractor equipment brought into the facilities must not exceed the engineered floor load capacities of the facilities. It is the Contractor's responsibility to provide properly sized/rated equipment to perform all services specified.

3.8.5 All Contractor tools and hand tools must have identification numbers attached / engraved on them and must be removed by Contractor at the termination or expiration of the Agreement.

3.9 FILTER REPLACEMENT - LEVEL I, LEVEL II, & LEVEL III

- 3.9.1 As part of O&M Services, Contractor shall inspect and replace HVAC filters, as required with the frequency of inspection based upon excessive differential pressure.
- 3.9.2 Contractor shall monitor all filters affected by construction projects and notify HAS of any deficiencies.
- 3.9.3 Filter replacement requires the use of various types of filters properly located to ensure maximum indoor air quality at an economical cost.
 - 3.9.3.1 Filter type must be consistent with MERV 13, ASHRAE 62.1, and Standard for efficiency.
 - 3.9.3.2 Re-circulated filtered air shall provide superior indoor air quality with minimum effect of increasing the Airports ventilation load, energy consumption and operating costs in accordance with the most current version of ASHRAE Standard 62.1.
 - 3.9.3.3 Filter type must be appropriate for specific mixing and distribution levels.
 - 3.9.3.4 Filter selection must conform to EPA requirements.
 - 3.9.3.5 Whenever possible, filters must utilize existing filter frames.
 - 3.9.3.6 Filter selection must be a pleat type with a minimum of MERV 13 rating.
 - 3.9.3.7 Filter Types
 - 3.9.3.7.1 Charcoal Filters - Charcoal Filters require periodic removal for regeneration or replacement. Regeneration may be accomplished by delivering the filters to the Contractor's off-site contractor for such services. During the time the charcoal filters are being regenerated, Contractor shall install spare filters until the filters are cleaned, regenerated, and reinstalled. To ensure minimum equipment shutdown, Contractor shall inventory an adequate number of replacement filters for this purpose. As part of O&M Services, Contractor shall be responsible, at its expense, for the maintenance, replacement, and regeneration of all such filters, both installed and in inventory for back-up. Contractor shall ensure all such filters are tested, at a minimum, every six months and changed as required by filter manufacturers. Efficiency rating of particulate filters is to be stamped on filter. Test results must be submitted to the Director. Failure to provide this report will result in the application of liquidated damages in accordance with Section 3.18 of this contract. For amounts refer to Attachment "C", Equipment list.
 - 3.9.3.7.2 <u>Electronic Air Cleaners</u> The electronic air cleaners require periodic maintenance. Collection units must be washed in an appropriate solvent, returned, and installed. To ensure minimum equipment shutdown, Contractor shall keep a minimum of 1 additional replacement cell in inventory for this purpose.

- 3.9.3.7.3 <u>Carbon and Potassium Permanganate Filter Systems</u> These systems must be sampled quarterly to determine useful life remaining. These filters must be changed at the end of their useful life not to exceed fifteen (15) months. The replacement filter or media must be on site at replacement time. Once the projected useful life is determined for each exposure (i.e., aircraft apron level, ground terminal area, parking third level, etc.) the sampling period for laboratory can be revised but must not exceed 75% of projected useful life.
- 3.9.3.7.4 Panel Filters, Media Filters, Roll Filters, Air Washers, etc. -Various types and methods of filtration are utilized in the Airports' HVAC to meet specific levels of air contaminants and environmental requirements. These filter media must be maintained to provide effective air filtration and efficient air movement. Efficiency rating of particulate filters is to be stamped on filter. 2-inch pleated filters need to be changed out at 0.8 inches on the magnehelic, 6-inch box filters need to be changed out at 1.25 inches. Replace non-functioning magnehelic gauges when identified.NO EXCEPTIONS.
- 3.9.4 <u>Filter Replacement Schedule</u> Contractor shall identify each piece of equipment that has a filtering system in place by the following parameters:
 - 3.9.4.1 Equipment & Type
 - 3.9.4.2 Filter Material
 - 3.9.4.3 Filter Size
 - 3.9.4.4 Type of Filter
 - 3.9.4.5 Location of Filter
 - 3.9.4.6 Frequency of Changing
 - 3.9.4.7 Effectiveness
- 3.9.5 Contractor shall collect this data and incorporate it into Contractor's filter maintenance schedule in EAMS as part of its normal operations and maintenance responsibilities.

3.10 HAS ENTERPRISE ASSET MANAGEMENT SYSTEM (EAMS) - LEVEL I, LEVEL II, & LEVEL III

3.10.1 General Description

- 3.10.1.1 As part of Basic Services, immediately after receipt of Notice to Proceed, the Contractor shall comply with HAS' Technology policies and best practices regarding the use of HAS infrastructure, technology assets, and HAS Enterprise Asset Management System (currently an INFOR-based Enterprise Asset Management system).
- 3.10.1.2 As part of the O&M services, contractor shall solely utilize the Houston Airport's Enterprise Asset Management System (EAMS). The contractor shall comply with HAS' policies and best practices regarding the use of HAS infrastructure, technology assets, and HAS EAMS. The condition and disposition of all assets supported, on behalf of HAS, shall be documented and maintained in HAS' EAMS which includes system component nomenclature, scheduled preventive, corrective maintenance, and all other work order activity. Documented assets shall be in

- alignment with HAS asset hierarchy principles, location and asset naming convention. Technologies utilized as a result of this Agreement are subjected to HAS governance, security, and life cycles.
- 3.10.1.3 HAS retains all right, title, interest and full ownership of any work, invention, and all Agreement documents including all software, EAMS-dedicated hardware, computer applications, preliminary plans, reports, or any modifications or improvements to the data always.
- 3.10.1.4 Contractor shall notify HAS of any changes to EAMS asset inventory data due to commissioning/decommissioning of assets related to this Agreement. Contractor shall submit the inventory changes in an approved HAS format. Throughout the Agreement, Contractor will replace HAS barcodes/QR codes on maintained assets as needed (missing, unreadable, new/replaced asset). The HAS barcodes/QR codes will comply with HAS EAMS standards.
- 3.10.1.5 Utilize EAMS including maintenance trending and tracking to reduce repair costs and optimize system operation efficiency. The Contractor is responsible for training and familiarization of HAS current EAMS software. For the duration of the Agreement, the Contractor is also required to attend HAS EAMS training regarding the EAMS hierarchy familiarization, user/system rights, and other HAS approved workflow processes. HAS EAMS training includes 4-8 hours by EAMS user. Contractor shall comply with HAS Design Standards and HAS sustainability/Sustainable Asset Management Policy.
- 3.10.1.6 EAMS Maintenance Management System driven schedule of planned maintenance actions on the Heating Ventilating and Air Conditioning (HVAC) Systems Operation & Maintenance Services Agreement in accordance with OEM equipment manufacturer's instructions and in accordance with the best preventive maintenance industry practices for the prevention of equipment breakdowns and failures. Contractor shall develop a PM schedule for each contract asset to be implemented and to complete PMs on equipment within the manufacture's recommendations and the Agreement's Level of Service (LOS).
- 3.10.1.7 Contractor shall notify HAS of any changes to EAMS asset inventory data due to commissioning / decommissioning of assets related to this Agreement. Contractor shall submit the inventory changes in an approved HAS format. Throughout the Agreement, Contractor will replace HAS barcodes/QR codes on maintained assets as needed (missing, unreadable, new/replaced asset). The HAS barcodes/QR codes will comply with HAS EAMS standards.
- 3.10.1.8 At or within sixty (60) days after "Start Phase in Notice", Contractor shall survey the equipment and parts listed in Attachments "C" and "D" and provide a list of discrepancies to HAS in a report titled, "Existing Building/Equipment Discrepancies Report." The Existing Building/Equipment Discrepancies Report will be used to reconcile differences in the Contractor's bid items and EAMS.
- 3.10.1.9 Within sixty (60) days of the award of Agreement Contractor shall provide preventive maintenance (PM) plans for HAS review and approval. The Contractor shall submit the PM/SM plans in a HAS approved format. HAS will generate the approved PM/SM plan in EAMS. Any requested changes by the Contractor to PM/SM plans will require HAS review and approval. Once changes are approved, they shall be submitted in a HAS approved format thirty (30 days prior to schedule due date of work to be performed.

- 3.10.1.10 One year prior to the expiration of the Agreement Term, Contractor shall certify to the Director a complete equipment listing in EAMS of all HVAC equipment. Listing must include identification number, description, location, model/serial number, area served, condition, and year unit was placed in service.
- 3.10.1.11 All equipment PM sheets, schedules, and other records must be available in EAMS for inspection by HAS personnel. All documents generated or obtained by Contractor that pertain to the operation and maintenance of the Agreement and equipment shall become HAS property upon Agreement expiration or termination. All such documents shall be transferred to the Director within ten (10) days of expiration or termination. All records must also be available in EAMS.
- 3.10.1.12 The EAMS will establish the required Preventive Maintenance / Corrective Maintenance baseline labor hours by type of equipment which must be approved in writing to the Director.
- 3.10.1.13 If no EAMS historical data is available, the accepted source is Facilities Maintenance & Repair Cost Data, latest edition R.S. Means Company or later version and/or another HAS approved source.
- 3.10.1.14 Corrective Maintenance shall be documented in EAMS.

3.11 CFC REFRIGERANTS - LEVEL I, LEVEL II, & LEVEL III

- 3.11.1 Contractor shall comply with Title VI, Clean Air Act of 1990, together with any amendments thereto, and together with any other applicable governmental regulations related to the use of CFC Refrigerants. The City strictly prohibits the discharge of CFC Refrigerants into the atmosphere resulting from the installation, repair, maintenance, or any condition requiring the release of CFC Refrigerants from any City-owned equipment, system, etc., new or existing.
- 3.11.2 Contractor shall ensure the necessary procedures and safeguards are in place to prevent the occurrence of a CFC Refrigerant discharge into the atmosphere. Contractor shall be required at the request of HAS to remove and dispose of any refrigerants from old and unused appliances within the airport complex.
- 3.11.3 All costs associated with removal of CFC Refrigerants for the purpose of recovery, recycling, or reclamation is at Contractor's sole expense and is included in Contractor's costs for O&M Services. No additional compensation will be allowed.
- 3.11.4 The use of new (unused), recovered, recycled or reclaimed refrigerant by Contractor shall be permitted under these specifications. However, Contractor must provide a written statement indicating which it will utilize; new (unused), recovered, recycled or reclaimed and will warrant the refrigerant by any of these methods, to be within the nine (9) physical properties standards set by: ARI Standard 700-88, Table 1 Physical Properties of Fluorocarbon Refrigerant and Maximum Contaminated Levels.
- 3.11.5 Any refrigerant that has been reclaimed must meet the current ARI Standard 700-88 before it may be introduced into any City system. Appropriate test results must be submitted supporting the reclaimed refrigerant as being within the established maximums. Contractor shall attest to the test results as being applicable to the recycled refrigerant presented for use in the specified system in accordance with ARI Standard 700-88. HAS may request at any time a refrigerant laboratory analysis performed in accordance with ARI Standard 700-88. Contractor shall submit certified refrigerant test report to HAS Director within 30 days. Failure to perform will invoke provisions of Section 3.18 LIQUIDATED DAMAGES.
- 3.11.6 Contractor shall be responsible and wholly liable, for all fines, penalties, taxes, judgments, settlements or liabilities arising out of any violation or infraction of the Clean Air Act of 1990,

any amendments thereto, or any other applicable governmental regulations related to the use of CFC Refrigerants.

3.12 **ENVIRONMENTAL CONDITIONS - LEVEL I, LEVEL II, & LEVEL III**

3.12.1 As a part of O&M Services, Contractor shall maintain the following environmental conditions within occupied conditioned spaces, unless otherwise specified in the Agreement or requested by the Director.

IAH, HOU, EFD	Summer	Winter
Cooling Temperature	74°F <u>+</u> 2°F	74°F <u>+</u> 2°F
Design Day	97°Fdb and 80°Fwb	22°Fdb
Humidity	55% <u>+</u> 5%	40% max.
Heating Temperature	74°F + 2°F	74°F + 2°F

3.13 RELIABILITY CENTERED MAINTENANCE (RCM) - LEVEL I, Level II & Level III

- 3.13.1 As a part of O&M Services throughout the term of the Agreement, the Contractor shall provide Reliability Centered Maintenance (RCM) on HVAC at minimum life-cycle costs.
- 3.13.2 Contractor must use the RCM to determine the most effective approach to maintenance and what must be done to ensure that the HVAC continues to perform as designed by the OEM within the present operating context. RCM is an ongoing process in which the Contractor gathers data from the HVAC performance and uses this data for future maintenance and/or recommend design changes.
- 3.13.3 RCM must employ all Maintenance techniques in an integrated manner to increase the probability that the HVAC will function in the required manner over their design life cycle.
- 3.13.4 RCM requires that the Contractor make maintenance decisions based on maintenance requirements supported by sound technical and economic justification. RCM includes, but is not limited to:
 - 3.13.4.1 Obtaining the highest level of performance and safety for the occupants and employees maintaining the Agreement.
 - 3.13.4.2 Providing maximum functionality, availability, safety and reliability performance of HVAC at the lowest cost.
 - 3.13.4.3 Identifying and implementing the most cost-effective actions that reduce the probability of HVAC failure.
 - 3.13.4.4 Provide statistical method of optimizing all maintenance programs for HVAC.
 - 3.13.4.5 Establish and identify issues of personnel performance and make any required corrections.
 - 3.13.4.6 Restore equipment to the required levels of performance when deterioration occurs, but before failure. "Required" shall be defined as a serviceable condition, not necessarily equal to new condition, which will allow the equipment to operate safely and at design capacity without any known deficiencies.
 - 3.13.4.7 Collect the data, during the life of the Agreement and/or equipment, to change the workflow or design of the equipment in order to improve its reliability. Data to be collected and archived in EAMS.

3.13.4.8 Report monthly progress and areas of improvement in performance, personnel, equipment, and process in enough detail to cover the items specified above related to RCM. This report shall be provided to the Director monthly. Failure to provide this report will result in the application of liquidated damages in accordance with Section 3.18 of the Agreement.

3.14 OTHER O&M SERVICES TESTS – LEVEL I, LEVEL II, & LEVEL III

- 3.14.1 Other tests shall include, but not be limited to, the following:
 - 3.14.1.1 Oil/Refrigerant Analysis— perform oil/refrigerant analysis, on all chillers, per manufacture recommendations This will include all remote chillers: ARFF Stations, One Stop Cargo, Fumigation building, Administration building (2 chillers), PPM building and Supply Chain Management (2 chillers) and any other contract chiller. Create EAMS WORK ORDER (WO) and enter sampling date in EAMS and submit laboratory analysis results and reports to Director within 5 days of report receipt. Attach oil/refrigerant analysis report to WO noted above. In addition to manufacturer recommendations, HAS may request oil/refrigerant analysis on any refrigerated equipment at any time and at a logical sample frequency determined by the Director after a failure for any reason and subsequent repair. Report(s) are required to be submitted to HAS within 30 days.
 - 3.14.1.2 <u>Charcoal Filters</u> test charcoal filters quarterly and submit the results to the Director. Create EAMS WORK ORDER (WO) and enter sampling date in EAMS and submit carbon filter lab analysis results and reports to Director within 5 days of report receipt. Attach charcoal filter analysis report to WO noted above.
 - 3.14.1.3 <u>VFDs</u> All VFDs will be inspected annually for proper operation and a report shall be submitted to the director. Create EAMS WORK ORDER (WO) and attach report to WO

3.15 THIRD PARTY AUDITS - LEVEL I

- 3.15.1 Contractor must have a Third-Party Audit of equipment specified by the Director performed during Contractor phase out. In addition, HAS may at its discretion, request a third-party audit, no more than once a year. A third-party audit company must be approved by the Director.
- 3.15.2 Third Party Audits must verify Operation and Maintenance of HVAC to include but not limited to:
 - 3.15.2.1 Operation & maintenance of HVAC.
 - 3.15.2.2 Operation of Thermal Utility Generation Systems
 - 3.15.2.3 Operation & Maintenance of DDC Systems.
 - 3.15.2.4 Preventive Maintenance.
 - 3.15.2.5 Condition of equipment.
 - 3.15.2.6 Energy Management, including analysis of energy usage data.
 - 3.15.2.7 Proficiency/accuracy of Work performed by Contractor's employees.
 - 3.15.2.8 House Keeping.
- 3.15.3 The cost for third party audits will be at the Contractor's expense. An Independent and qualified third-party agency must be selected by the Contractor and approved by HAS. All reports must be sent directly to the Contractor with copies to HAS.

- 3.15.3.1 Any deficiencies discovered by third party audits which are the responsibility of Contractor, must be rectified by the Contractor at no cost to the City. Correction/Work shall commence within thirty (30) working days of receipt of the notice of any such deficiency. Contractor shall provide the Director with a written explanation for such deficiency in performance and a plan to prevent future such deficiencies within fifteen (15) days of receipt of such notice.
- 3.15.3.2 Failure of Contractor to correct deficiencies covered under the terms of the Agreement may be used by the Director as grounds for application of liquidated damages or termination of the Agreement within the meaning of the general provisions entitled "Default." Refer to Section V Term and Termination, Subsection D. "Termination for Cause by City."

3.16 CONTRACTOR RESPONSIBILITY DURING IMPLEMENTATION OF NEW FACILITIES AND EQUIPMENT - LEVEL II, LEVEL II, AND LEVEL III

- 3.16.1 As part of the O&M Services, Contractor shall work with HAS and construction Contractor to meet operational and capacity requirements during renovations, upgrades, expansion, and demolitions for any future projects. Contractor shall provide optimum system operations during any construction /project work to meet additional cooling and heating load requirements from on-line facilities, systems, and equipment as new systems and equipment are being readied to come online for full cooling and heating operating service.
- 3.16.2 Upon issuance of a certificate of substantial completion and/or beneficial use and the equipment is put into revenue service the Contractor shall take full responsibility of equipment maintenance and manage any warranties in effect.
- 3.16.3 <u>System Upgrades/Modifications Testing and Acceptance</u>
 - 3.16.3.1 Acceptance Tests. New system modifications and upgrades performed by the Contractor will be subject to individual thirty (30) day Acceptance Test(s) to verify successful startup and proper performance and functionality in an operational environment. Unless specified in a change order or otherwise, the following items are the necessary elements of an Acceptance Test:
 - 3.16.3.1.1 After startup the Contractor will operate the new equipment for thirty (30) days as the initial step in the Acceptance Test(s).
 - 3.16.3.1.2 Test procedures shall determine whether the equipment is fully operational and performing in accordance with specifications and performance requirements provided in this Agreement. The Airport, at its sole option and expense, may perform additional acceptance testing to verify that the equipment is installed correctly and functioning in accordance with the terms of the Agreement. In the event that Airport conducts its own tests, the Contractor will be given advance written notification and will be afforded the opportunity to witness and observe the Airport tests. Notwithstanding any Airport test(s), the Airport shall be entitled to rely on results obtained and recommendations made by the Contractor regarding the operation and performance of new equipment. Testing by Airport shall not relieve the Contractor of its obligations to test and determine that the equipment is properly installed, adjusted, and functioning. Neither observations by the Airport nor inspections, tests, or approvals by others shall relieve the Contractor from its obligations to perform in accordance with this Agreement.

- 3.16.3.1.3 During the thirty-day acceptance test period, the Contractor shall notify the Director in writing within twenty-four (24) hours of the occurrence of any downtime. Equipment downtime will be computed according to the following guidelines:
 - 3.16.3.1.3.1 Downtime will accumulate during any period when the equipment is not able to perform its scheduled function or meet performance requirements, as specified, due to a failure of hardware or software.
 - 3.16.3.1.3.2 Downtime will not accumulate if a failure occurs due to Force Majeure.
- 3.16.3.1.4 If no more than a cumulative total of three hours of system downtime occurs within the thirty-day period, the new equipment will be deemed to have passed the Acceptance Test.
- 3.16.3.1.5 If more than three hours of system downtime occurs at any pointduring the 30-day Acceptance Test, the Airport may, at its sole option, require the Contractor to conduct a new thirty-day Acceptance Test.
- 3.16.3.1.6 If more than a cumulative total of seven hours of system downtime occur during the thirty-day acceptance period, the Airport may elect to:
 - 3.16.3.1.6.1 Request the Contractor to begin a new thirty (30) day
 Acceptance Test within seven (7) days; or
 - 3.16.3.1.6.2 Notify the Contractor that the specific modification or upgrade is not acceptable and seek remedy through the Contractor's Performance Bond or other available remedies. The Contractor shall remove the failed new component or equipment. Title to the failed item(s) will then be transferred to the Contractor and Airport will not be responsible for the condition of, or any loss or damage to, the said item(s); or waive the defect(s) and accept the item, if the demonstrated operation of the equipment is such that reliable and efficient operation and performance of the Airport systems and all associated Warranties shall not be compromised. The Contractor shall bear all direct costs attributable to Airport's performance evaluation and determination to waive any defect and accept equipment (such costs to be approved by Airport as to reasonableness and to include, but not be limited to fees and charges of engineers, architects, attorneys and other professionals). If any such acceptance occurs, the Airport shall be entitled to an appropriate negotiated decrease in the Agreement Price. If the acceptance occurs after such recommendation, a written Change Order will be issued, and an appropriate amount will be paid by the Contractor to Airport.
- 3.16.3.1.7 The Contractor shall be responsible for all costs associated with the Acceptance Test(s) including the costs for any independent tests or certifications (except as noted above).

- 3.16.3.2 Notice of Acceptance. If the new equipment passes the Acceptance Test, the Airport will provide written notice of acceptance within five (5) working days following the completed thirty consecutive day Acceptance Test period. The official date of acceptance shall be the first day following successful completion of the acceptance test.
- 3.16.3.3 Title Risk of Loss. For items provided or furnished by Contractor, title to any new upgrade or modification component of the Airport systems or equipment will vest in the Airport upon date of installation; however, the obligation to pay the Contractor remaining progress payments will not accrue until the date of acceptance by the Airport.
- 3.16.3.4 The Warranty Period shall begin to run upon Airport's date of acceptance.

3.17 IAH SYSTEM'S PERFORMANCE REQUIREMENTS - LEVEL I, LEVEL II, & LEVEL III

3.17.1 For lists of IAH equipment, refer to Attachment "C" and for Equipment Building lists, refer to Attachment "D". In the event of a discrepancy, the Attachment "D" shall govern.

3.17.2 General

The Terminal systems are designed to maintain 74°F + 2°F indoor temperature 3.17.2.1 through wide variations of outdoor temperature utilizing chilled and high temperature hot water. The mediums are conveyed in tunnels and pedestrian walkways to each terminal. The Central Plant system is capable of supplying chilled water at 40°F on demand to meet peak cooling demands with no more than 42°F at the coil. The Plant is also capable of supplying high temperature hot water at a temperature of 300°F on demand to meet peak heating requirements. Hot water for domestic use and kitchen use is converted by shell and tube heat exchangers in hot water generators at each Terminal Complex. The Domestic hot water systems are designed to provide 160°F water. HAS will select Primary and Domestic Hot Water Temperature settings as required to meet requirements in individual Terminals. Contractor shall maintain all primary water, air, and secondary air systems to meet design and performance requirements set forth in the specific Contract documents under which they were installed. A detailed listing of Terminals Equipment is provided in SOW Equipment List Attachment "C", Coil leaving air temperatures are generally designed for 52.5°F leaving air temperature for all new equipment and new coils with 42°F entering water while maintaining a 15°F water temperature rise. Lowering leaving air temperatures below 52.5°F is not acceptable as a satisfactory solution to resolving any space temperature control problem. This Practice results in lower water temperature rise reducing Central Plant and Distribution System Deliverable Capacities. AHU system balancing including Fan and Coil, maintaining clean filters, and cleaning coils are the proper ways to maintain AHU System performance in accordance with design conditions. 2-inch, minimum MERV 13 pleated filters need to be changed out at .8 inches on the magnehelic, and 6-inch box filters need to be changed out at 1.25 inches. NO EXCEPTIONS.

3.17.3 Subway - Pedestrian Tunnel Level

3.17.3.1 The Subway Level of both Terminals consists of Mechanical and Electrical rooms of Subway Track area. The Electrical Rooms serve primary electric power to the Terminals. "Pump Rooms" in each Terminal contain pumps to provide adequate pressure and flow for cooling and heating water to the Terminals. High temperature water heat exchangers for generation of heating water are also located in the pump rooms. Domestic hot water generators/storage tanks in this same area provide domestic hot water for the Terminals.

- 3.17.3.2 Below the elevator core area of the Subway Level in both Terminals A & B are elevator machine rooms. These rooms contain an air-handling unit to cool elevator machinery.
- 3.17.3.3 Terminal A has developed areas north of the tracks at the Subway Level, but Terminal B has not. This area in Terminal A contains the Subway service and maintenance area and other general Airport service equipment and other service agencies. These areas are cooled and heated by multi-zone and single-zone units. All outside air is pretreated.
- 3.17.3.4 This area is served by low pressure single zone units located in fan rooms adjacent to Pump Rooms in Terminals A & B and in rooms at or under Stairwells #2, #4, #5, #7 and #9 and at the Subway Turn-around at Terminal D Train Stop. Low-pressure single zone variable temperature units without outside air pretreatment units serve the pedestrian Tunnel. The supply is routed above the ceiling to conventional diffusers with air returned through the ceiling plenum, then to a main return duct to the AHU mechanical room. The Pedestrian Tunnel will be maintained at 74°F ± 2°F.

3.17.4 CDC Isolation Area

- 3.17.4.1 In the Southeast corner of the passport control area of the FIS building the CDC maintains a medical isolation area including negative pressure rooms. This equipment is included in this contract. The filters must be changed after every exposure and will be considered hazardous medical waste. Proper CDC protocol will be used for disposal.
- 3.17.4.2 In the FIS, CBP has several isolation rooms served by specialized filtration and exhaust fans. This equipment is included in this contract. The filters must be changed upon request or schedule and be considered hazardous medical waste. Proper medical waste protocol will be used for disposal.

3.18 LIQUIDATED DAMAGES - LEVEL I, LEVEL II, & LEVEL III

3.18.1 In addition to the termination rights, Article V, Section C and D, and all other legal and equitable remedies, Director shall have the discretionary right to assess liquidated damages in amounts not to exceed the amounts set forth below on a per occurrence basis and as may be described in other sections of this Agreement. Contractor and City stipulate and agree that any such assessment shall not be construed as a penalty; rather, Contractor and City stipulate that the damages resulting from any such violation will be difficult to measure and ascertain and as such the necessity of liquidated damages. Contractor shall pay any assessment of liquidated damages by the Director to City within ten days of receipt of an invoice for such damages. Multiple Liquidated Damages may be applicable. It is the intent of this contract to require the Contractor to have sufficient personal on staff 24 / 7 to meet a response time to service request of 30 minutes or less (Level II), one (1) hour or less (Level III), or two (2) hours or less (Level III).

3.18.2 Liquidated Damages Matrix - Level I

Performance	Liquidated Damage
Failure to maintain equipment in operational	\$3,000.00 per occurrence
condition. Contractor may be issued Liquidated	
Damages for equipment that is out of operational	
service in excess of eight (8) hours. Exception is if	
contractor notifies HAS in writing, reason for	
excessive downtime and the Director determines it to	
be out of the contractor's control. Contractor will	
make all reasonable and necessary attempts to bring	
equipment back to usable service. If the director	

determines it to be the fault of the contractor damages in the amount of \$3,000 will be assessed per occurrence.	
Failure to maintain temperatures/humidity in a specific area more than three (3) times during any 30-day period (call backs).	\$500.00 per occurrence
Failure to perform other work services (OSR) in the time period specified in the OSR.	\$250.00 per 48-hour period
Failure to provide a written OSR proposal within five (5) days of receipt of Director's request for an OSR.	\$150.00 per 48-hour period
Contractor fails to meet the minimum staffing levels as agreed for two (2) consecutive weeks.	\$1,000.00 per person per 48-hour period
Failure to meet response times as defined in the Agreement.	\$500.00 per occurrence
Contractor fails to complete the PMs per the schedule for more than two (2) weeks in a six (6) month period.	\$1,000.00 per PM violation
Contractor fails to provide reports and/or lab oil/refrigerant analysis and/or operational data to HAS within defined reporting times.	\$250.00 per day until report is provided

3.18.3 Liquidated Damages Matrix - Level II

Performance	Liquidated Damage
Failure to maintain equipment in operational	\$2,250.00 per occurrence
condition. Contractor may be issued Liquidated	
Damages for equipment that is out of operational	
service in excess of eight (8) hours. Exception is if	
contractor notifies HAS in writing, reason for	
excessive downtime and the Director determines it to	
be out of the contractor's control. Contractor will	
make all reasonable and necessary attempts to bring	
equipment back to usable service. If the director	
determines it to be the fault of the contractor	
damages in the amount of \$2,250 will be assessed	
per occurrence.	A
Failure to maintain temperatures/humidity in a	\$375.00 per occurrence
specific area more than three (3) times during any 30-	
day period (call backs).	0050.00
Failure to perform other work services (OSR) in the	\$250.00 per 48-hour period
time period specified in the OSR.	0450.00 401
Failure to provide a written OSR proposal within five	\$150.00 per 48-hour period
(5) days of receipt of Director's request for an OSR.	0750.00
Contractor fails to meet the minimum staffing levels	\$750.00 per person per 48-hour period
as agreed for two (2) consecutive weeks.	0075.00
Failure to meet response times as defined in the	\$375.00 per occurrence
Agreement.	0750 00 PM : 1 (:
Contractor fails to complete the PMs per the	\$750.00 per PM violation
schedule for more than two (2) weeks in a 6-month	
period.	COTO OO man day watii namantia mussidad
Contractor fails to provide reports and/or lab	\$250.00 per day until report is provided
oil/refrigerant analysis and/or operational data to	
HAS within defined reporting times.	

3.18.4 Liquidated Damages Matrix – Level III

Performance	Liquidated Damage
Failure to maintain equipment in operational condition. Contractor may be issued Liquidated Damages for equipment that is out of operational service in excess of eight (8) hours. Exception is if contractor notifies HAS in writing, reason for excessive downtime and the Director determines it to be out of the contractor's control. Contractor will make all reasonable and necessary attempts to bring equipment back to usable service. If the director determines it to be the fault of the contractor damages in the amount of \$1,500 will be assessed per occurrence.	\$1,500.00 per occurrence.
Failure to maintain temperatures/humidity in a specific area more than three (3) times during any 30-day period (call backs).	\$250.00 per occurrence
Failure to perform other work services (OSR) in the time period specified in the OSR.	\$250.00 per 48- hour period
Failure to provide a written OSR proposal within five (5) days of receipt of Director's request for an OSR.	\$150.00 per 48-hour period
Contractor fails to meet the minimum staffing levels as agreed for two (2) consecutive weeks.	\$500.00 per person per 48-hour period
Failure to meet response times as defined in the Agreement.	\$250.00 per occurrence
Contractor fails to complete the PMs per the schedule for more than two (2) weeks in a 6-month period.	\$500.00 per PM violation
Contractor fails to provide reports and/or lab oil/refrigerant analysis and/or operational data to HAS within defined reporting times	\$250.00 per day until report is provided

- 3.18.5 Notwithstanding the foregoing, the Director shall not be entitled to assess Liquidated Damages under any of the following circumstances:
 - 3.18.5.1 Force Majeure.
 - 3.18.5.2 Upgrades/modifications set forth in the Agreement.
 - 3.18.5.3 Damage to HVAC equipment that is caused solely by the acts of the City.
 - 3.18.5.4 Unplanned material changes to energy requirements not caused by Contractor. However, this exception is available to Contractor only at the sole discretion of the Director assessment of Liquidated Damages must never be construed as an exclusive remedy for any other damage incurred as the result of the breach of any other covenants, conditions, or obligations contained in the Agreement, and the City will always have the right to avail itself of other remedies available to it in law or equity.

4.0 OTHER WORK/SERVICES (OSR's) - LEVEL I, LEVEL II, & LEVEL III

4.1 Within the general scope of the Agreement, Other Work/Services may be required to meet desired conditions and/or services not covered in O&M Services. Contractor shall perform Other Work/Services (OSR) in accordance with all provisions of the Agreement plus any special provisions issued with

authorization for work, so long as the specific provisions are consistent with, and related to the scope of the Agreement. With the exception of Emergency Service Requests or Urgent Service Requests, where a request may be verbal and followed immediately in writing, all requests for Other Work/Services will be in writing in the form of an (OSR) Other Service Request provided by the Director and signed by the Director or his/her designated representative. Contractor shall perform Other Work/Services to the same standards required for O&M Services.

4.2 **PERFORMING OTHER WORK/SERVICES**

- 4.2.1 Other Work/Services shall be performed in accordance with the Agreement.
- 4.2.2 Other Work/Services shall be performed in accordance with all provisions of the Agreement and any special provisions issued with the Other Service/Request (OSR).
- 4.2.3 Before issuing an OSR, the Director will first issue a written notice to the Contractor detailing the specific OSR to be performed by the Contractor.
- 4.2.4 In response to any such written notice, the Contractor shall provide the Director with a written proposal within five (5) to seven (7) business days of receipt of OSR. Contractor must include a description of the services to be performed, applicable labor rates, estimated labor hours, performance schedule, total estimated cost, and other requirements set forth in the written notice to the Contractor.
- 4.2.5 Contractor shall furnish all materials, labor, tools, equipment, transportation, and incidentals for accomplishing these described services or as otherwise specified by Director. Travel, lodging, meals, and rental cars that may be incurred in the performance of Other Work Services shall have no additional cost to HAS. Director will not approve an OSR without a specified completion date. Contractor shall complete all such Other Work/Services within the time specified in the OSR. Contractor can request in writing an extension to the completion date. However, Director may or may not allow the extension. Director's decision is final.
- 4.2.6 Upon receipt of the Contractor's proposal, the Director has the option to reject the Contractor's proposal, require resubmission with revised or additional information, or issue an OSR. Should the Director reject the Contractor's Proposal and require resubmission, the Contractor shall resubmit a modified proposal within five (5) to seven (7) business days of the rejection.
- 4.2.7 Upon approval by Director of the modified proposal, an OSR will be issued. Contractor shall commence work as stated in the OSR. Contractor shall diligently work to completion in accordance with the terms and conditions of this Agreement, and the approved OSR.
- 4.2.8 Labor cost must not exceed the rate stated in the "Fee Schedule". Labor is inclusive of supervision, tools, and expendables.
- 4.2.9 Prices for equipment, parts, supplies, and contractor work, which may be required for authorized Other/Work Services, shall be the Contractor's actual cost-plus percent (%) mark-up proposed on the" Price Sheet" (*Mark-up excludes Freight and Travel*). Copies of invoices from the Contractor's suppliers for these items must be submitted with Contractor's invoices at the time of submittal to the City for payment. The mark-up percentages stated shall not increase during the term of the Agreement. The quantity of equipment, parts, and supplies will depend on the needs of the HAS.
- 4.2.10 \$25,000.00 Threshold -_Contractor shall provide all replacement parts as per SOW equipment/appurtenances identified in Attachments "C", "D" and "E" that cost \$25,000.00 or less. Such cost will not consider Contractor's labor cost, rather just the actual cost of the parts which must be documented to the satisfaction of the Director. By way of example, if a compressor requires replacement, Contractor shall not be responsible for the cost, assuming that the cost of such compressor is over \$25,000.00 and the replacement is not due to Contractor's negligence. However, if only the fan motor of the compressor requires replacement and assuming the cost of the fan motor is \$25,000.00 or less, it shall be replaced at Contractor's sole cost. In other words, the Contractor will not be able to represent that the compressor is the part if only the fan

motor requires replacement. Any dispute regarding the \$25,000.00 threshold shall be resolved at the sole discretion of the Director whose decision shall be final.

- 4.2.11 If the OSR work is over \$5,000.00, the Contractor shall obtain three (3) itemized bids/estimates within five (5) to seven (7) business days from separate/different vendors/ suppliers for the required equipment, parts, supplies, and contractor works. Contractor shall submit the bids/estimates to Director and obtain written approval from Director before proceeding with the work. Any bids/estimates obtained from vendors/suppliers affiliated with the Contractor shall have written approval from the Director. Contractor shall be compensated at "Bid Cost" plus percent (%) mark-up proposed on the Price Sheet/Fee Schedule.
- 4.2.12 If the OSR work is under \$5,000.00, the Contractor shall obtain one (1) itemized bid/estimate from vendor/supplier within five (5) to seven (7) business days, for the required equipment, parts, supplies, and contractor works. Contractor shall submit the bid/estimate to the Director and obtain written approval from the Director before proceeding with the Work. Contractor shall be compensated at "Bid Cost" plus percent (%) mark-up proposed on the Price Sheet/Fee Schedule.
- 4.2.13 A copy of the approved OSR must accompany the monthly invoice for payment.
- 4.2.14 While performing work on any OSR, if hidden damage or additional cost is discovered, Contractor shall notify the Director immediately. After determining the extent of hidden damage, a supplemental OSR proposal must be submitted to the Director.
- 4.2.15 Contractor shall submit to Director, copies of original purchase orders and invoices evidencing Contractor's acquisition costs.
- 4.2.16 In the case of emergency service, the Contractor may perform Other Work/Services upon the verbal approval of the Director. However, during the next business day, the Director will submit a written Emergency Service Request to the Contractor and the same process for non-emergency OSRs will apply.
- 4.2.17 If it is subsequently determined this Scope of Work should be covered under O&M Services, any amount paid to the Contractor under Other/Services Request will be reimbursed to the City by the Contractor within thirty days of such determination. The City does not waive any of its rights and remedies whether by statue, at law, in equity, or under this Agreement.
- 4.2.18 If Other Work/Services are performed by the on-site crew in conjunction with their regular duties, the Contractor shall not receive additional compensation for their labor.
- 4.2.19 Contractor shall not contractor work to companies affiliated with the contractor without prior written approval from the Director.

4.3 OTHER WORK/SERVICES CATEGORIES

4.3.1 Other Work/Services (OSR's) may include, but are not limited to the following categories:

Systems and Equipment Upgrades/Modifications. Obsolete parts replacements and/or substitutions are not considered Upgrades/Modifications unless so stipulated in writing issued by the Manufacturer. HAS shall decide in all instances of obsolescence when a part or component meets the definition of an obsolete part (Section 3.7.5 Obsolescence). HAS Director's decision shall be final.

- 4.3.1.1 Special Energy Retrofits.
- 4.3.1.2 Hazard Materials Testing and Removal.
- 4.3.1.3 Air quality studies.
- 4.3.1.4 Air Balance Balancing Services
- 4.3.1.5 Systems and Equipment damaged by force majeure or vandalism

NOTE: Work included in OEM normal routine maintenance (ex. yearly/minor/major overhaul) or under warranty is excluded from the above OSR categories list.

4.4 <u>USE OF ON-SITE - EXTRA WORK</u>

4.4.1 When the Contractor's on-site crew performs extra or changed work covered by Change Orders or Other Work/Services during normal hours, Contractor shall not be relieved of its other performance responsibilities herein. Contractor shall provide time sheets and verification of such service.

5.0 <u>PERSONNEL REQUIREMENTS, Perpetual - Best Management Practices and Predictive - Industry Standard</u>

- 5.1.1 Staffing Contractor shall provide the necessary number of qualified personnel required to operate and maintain the HVAC and equipment at all Airports per the contracted Level of Service (LOS). During the phase-in period, Contractor shall develop and implement a full project schedule detailing the responsibilities, skill sets and number of personnel and submit this schedule to the Director for written approval.
- 5.1.2 Should HAS determine that the Contractor is not meeting the Contract contracted responsibilities with the Contractor's on-site crew, then upon the Director's request, Contractor shall modify/increase its on-site crew in order to meet Contract LOS obligations. Contractor shall increase its on-site crew at no cost to HAS as required to fulfill the requirements of the Contract. Should the Director determine that Contractor is not meeting Contract responsibilities; the Director will notify Contractor in writing. Contractor shall address and cure performance issues relating to personnel immediately. A plan to cure must be approved in writing by the Director at his sole discretion. If Contract responsibilities can only be met with additional permanent staff, Contractor shall pay for the cost of such additional staff.
- 5.1.3 Contractor shall provide a dedicated Project Manager for all of HAS, skilled and experienced in the operation and maintenance of the type of systems/equipment identified in the Contract, who will be actively included in the system maintenance and who will serve as the main point of contact for Contractor. The Project Manager shall not be a working technician/mechanic. The Project Manager shall office at IAH, subject to change at the Director's discretion, from 8:30 a.m. through 5:30 p.m., Monday through Friday at a minimum. If Project Manager is on vacation, sick, etc., he will name a responsible subordinate to act on his behalf with full authority to represent the Contractor as if the subordinate was the Project Manager. Contractor shall answer correspondence via email within 12 hours.
- 5.1.4 Contractor and the Project Manager shall attend a minimum of one meeting every month, or as requested by Director, with the Director to report on the status of the system/equipment and the Work/Services. Contractor shall prepare a typed agenda covering the topics to be discussed, keep minutes of the meetings in a form satisfactory to the Director, and issue copies of the minutes to all attendees within four (4) business days of each meeting. Liquidated damages may be assessed for failure of Contractor to comply with the above requirement.
- 5.1.5 The Project Manager shall be the communications contact with the Director and shall be exclusively assigned to this project. The Project Manager shall not be reassigned from this project without prior approval of the Director. Contractor shall provide a toll-free telephone number if the Project Manager resides outside of the 713, 832, or 281 Area Codes.
- 5.1.6 The Project Manager, Administrative Coordinator, Senior Controls Technician, and Maintenance Manager shall not be reassigned and or be replaced from this Contract without prior written approval of the Director.
- 5.1.7 Contractor shall notify Director of holiday/vacation schedules at least fourteen (14) days in advance.
- 5.1.8 The following job descriptions are intended to address minimum key personnel qualifications and are not intended to establish the level of staffing needed to operate and maintain the CONTRACT

6.0 **SPECIAL CONDITIONS**

6.1 Additional Instructions. Notifications and Information

- 6.1.1 Proposers who provide false or misleading information, whether intentional or not, in any documents presented to the City for consideration in the selection process shall be excluded. Any false or misleading information in these documents would in effect, render the entire document suspect and therefore useless.
- 6.1.2 Proposers shall not offer any gratuities, favors, or anything of monetary value to any official or employee of the City of Houston for the purposes of influencing this selection. Any attempt by the Proposer to influence the selection process by any means, shall be grounds for exclusion from the selection process.
- 6.1.3 CONTRACT NEGOTIATIONS This solicitation is not to be construed as a contract or as a commitment of any kind. If this solicitation results in a contract offer by the City; a specific scope of work, fees, insurance coverages, and other contractual matters will be determined during contract negotiations. To ensure that the appropriate staff is assigned to the project the City may include a "key persons" clause during contract negotiations.
- 6.1.4 CONFIDENTIAL INFORMATION All responses shall be held confidential from other parties by the City to the extent allowable by law until after the selection process is completed. Proposers should be aware that at the completion of the selection process the contents of their RFP are subject to the provisions of the Texas Open Records Act and may be made public. CONFIDENTIAL or SENSITIVE information should not be included in the responses to the solicitation.
- 6.1.5 This RFP is not to be construed as a contract or a commitment of any kind, nor does it commit the City of Houston to pay for any cost incurred in the preparation of a proposal or of any costs incurred prior to the execution of a final contract.
- 6.1.6 In the event that a mutually agreeable contract cannot be negotiated between the Design Build Contractor and the City, then the City reserves the right to select an alternate Design Build Contractor.
- 6.1.7 The City reserves the sole right to:
 - 6.1.7.1 Evaluate proposals
 - 6.1.7.2 Waive any irregularities therein
 - 6.1.7.3 Request supplemental or additional information as necessary
 - 6.1.7.4 Contact others to verify information provided in the proposal
 - 6.1.7.5 Cancel the solicitation and/or reject any and all proposals, should it be deemed at the best interest of the City of Houston
- 6.1.8 No debriefings by the City staff to unsuccessful Proposers will occur until after the award of a contract by the Houston City Council to the successful firm.
- 6.1.9 The Mayor's Drug Detection and Deterrence Procedures for Contractors (Executive Order 1-31, Revised 3/1/95) requires that all contractors who are awarded City contracts for labor or services comply with the compliance with the Executive Order (EO) and will have to file the

following documents with the Aviation Department's Contract Compliance Officer for Drug Testing (CCODT) prior to award.

- a. A copy of the Proposer's drug-free workplace policy
- b. A Drug Policy Compliance Agreement substantially in the format described in the EO, together with a designation of safety impact positions.
- c. If applicable, a Certification of No Safety Impact Positions substantially in the format described in the EO.
- 6.1.10 The successful firm will have to complete an Affidavit of Ownership or Control prior to completion of contract negotiations. The affidavit certifies that the firm is not delinquent in any debt owed to the City of Houston (taxes, fines, fees, etc.).

6.2 **No Contact Period**

- Neither bidder(s) nor any person acting on bidder(s)'s behalf shall attempt to influence the 6.2.1 outcome of the award by the offer, presentation or promise of gratuities, favors, or anything of value to any appointed or elected official or employee of the City of Houston, their families or staff members. All inquiries regarding the solicitation are to be directed to the designated City Representative identified on the first page of the solicitation ("City Representative"). Upon issuance of the solicitation through the pre-award phase and up to the date the City Secretary publicly posts notice of any City Council agenda containing the applicable award, aside from bidder's formal response to the solicitation, through the pre-award phase, written requests for clarification during the period officially designated for such purpose by the City Representative, neither bidder(s) nor persons acting on their behalf shall communicate with any appointed or elected official or employee of the City of Houston, their families or staff through written or oral means in an attempt to persuade or influence the outcome of the award or to obtain or deliver information intended to or which could reasonably result in an advantage to any bidder. However, nothing in this paragraph shall prevent a bidder from making public statements to the City Council convened for a regularly scheduled session after the official selection has been made and placed on the City Council agenda for action, or to a City Council committee convened to discuss a recommendation regarding the solicitation.
- 6.2.2 <u>Guidance</u> Interested parties shall always contact the designated City Representative regarding the substance of this procurement. It is permissible to also contact the following, based on the specific circumstances:
- 6.2.3 Questions regarding programs administered by the Office of Business Opportunity (OBO) may be submitted directly to OBO without going through the City Representative for this procurement.
- 6.2.4 Questions regarding the process in general or that the City Representative may not be able to answer may be submitted to the Chief Procurement Officer.
- 6.2.5 Communications with the city legal department regarding contract terms after notification of intent to award are permissible.

6.3 Security and Badges (As Applicable to this Project)

6.3.1 The Proposer shall comply with all applicable Federal rules governing security at the Airport.

- 6.3.2 All on-site personnel of Proposer, including contractors, who perform services under the Agreement inside the AOA fence or in secure areas of the Airport, are required to undergo a fingerprint-based criminal history records check. Fingerprints are collected at the Airport Badging Office and submitted electronically for investigation.
- 6.3.3 The Proposer shall obtain HAS security badges for its personnel performing services on- site, including its contractors' personnel, as required by HAS. On-site personnel within the AOA or in secure areas of the Airport shall wear identification badges at all times while on Airport property. The cost of badges, which is subject to change, is currently \$55.00 each at IAH/HOU and \$16.00 at EFD. Costs for the fingerprint-based criminal history records check are reflected in the cost of the badges. The Proposer is responsible for the cost of badges, including replacements thereof. The Proposer's personnel losing badges will be charged for replacement badges at the then current rate. Badge yearly renewal cost is currently \$16.00.
- 6.3.4 The Proposer acknowledges that fines or penalties associated with non-compliance with security regulations shall be reimbursed to HAS.

6.4 Certificate of Interested Parties

- 6.4.1 In accordance with Texas Gov't Code §2252.908, the successful Proposer must complete Form 1295, Certificate of Interested Parties.
- 6.4.2 The successful Proposer must use the application to enter the required information on Form 1295 and print a copy of the completed form, which will include a certification of filing that will contain a unique certification number
- 6.4.3 No later than 30 days after the contract's effective date, the City will upload the successful Proposer's completed Form 1295. The Texas Ethics Commission will post the Contractor's completed Form 1295 within seven business days of receipt.
- 6.4.4 For your reference, Form 1295 is attached as part of this document.

PART III - EVALUATION AND SELECTION PROCESS

An evaluation committee shall evaluate Proposers' submissions in accordance with the evaluation criteria listed in Part VI. Upon completion of the evaluation, the committee may develop a short list of Proposer(s) meeting the technical competence requirements. The shortlisted Proposer(s) may be scheduled for a structured oral presentation, demonstration, interview and negotiations. Following these City-to-Proposer(s)' meetings, the evaluation team will summarize their findings and recalculate their scores, if needed. However, the evaluation committee reserves the right to issue letter(s) of clarification when deemed necessary to any or all Proposer(s). The oral presentations, demonstrations and/or interviews may be recorded and/or videotaped.

A. Interviews/Oral Presentations/Demonstrations

The City reserves the right to request that Proposer(s) provide a final presentation handout of its Proposal at their scheduled meeting. No Proposer may attend presentations of any other Proposer. If necessary, Proposers may be scheduled for more than one presentation, demonstration, or interview.

B. Selection Process

Upon review of all information provided by Proposers, the evaluation committee will make a recommendation for selection to City officials. The City reserves the right to check references on any

projects performed by the Proposer, whether provided by the Proposer or known by the City. Selected Proposal shall be submitted for approval by the appropriate City officials. The City of Houston intends to select a Proposal that best meets the needs of the City and that provide the best overall value. Upon approval of the selected Proposer, a contract shall be executed by the appropriate City officials.

C. Evaluation Criteria

Evaluation Criteria Table	Max Score
Technical/Design Approach Management Plan	15
Personal Staffing Requirements	20
Proposal Pricing	30
Qualification HVAC Experience	15
Efficiency/Sustainability/Energy Saving/Training	10
Computerized Maintenance Management System (CMMS)	10
Total	100
Financial Capabilities	Pass/Fail
MWBE Compliance	Pass/Fail
Minimum Required Experience	Pass/Fail

D. QUALIFICATIONS (PASS/FAIL)

Financial Capabilities – Pass/Fail

a. Financial Capabilities, submit audited financial statement for the last two years. Provide a brief statement of the Proposer's bonding ability to fulfill obligations.

2. MWBE Compliance - Pass/Fail

a. MWBE Compliance, as referenced in PART III, Section R., MWBE and Local Participation Plan and City required documents listed as Exhibits, and Attachments.

3. Minimum Required Experience – Pass/Fail

- **a.** Successful as the company (or prime contractor) in the previous or current experience in which they were (or are) responsible for the contracted operation and maintenance services of Heating, Ventilating, and Air Conditioning (HVAC) at large campuses such as airports, college/universities, hospitals, sports arenas and convention centers with multiple customer serving facilities that have at least one building and/or a HVAC service area with a combined square footage greater than 900,000 square feet.
- **b.** Successful as the company (or prime contractor) in the previous or current experience in which they were (or are) responsible for the operation and maintenance of a hybrid with a minimum capacity of 20,000 tons of industrial cooling, and 50,000 lb/hour of industrial steam boiler operation.
 - i. Cooling Tower Operation
 - ii. Industrial Centrifugal Chiller Operation

- iii. Steam Turbine Driven Chiller Operation
- iv. Hydronic Pump System Operation
- v. Industrial High Temperature Water Heating Boilers
- vi. Condensing Boilers
- vii. Constant Speed and VFD Drive Operation
- viii. Plant-Building Automation System

E. TECHNICAL APPROACH/MANAGEMENT PLAN (15 points)

- 1. Describe the Proposer's overall understanding of the HAS requirements provided in the Scope of Work (SOW).
- 2. Define the Proposer's approach to managing, operating, and maintaining HVAC systems as described in the SOW.
 - Detailed plans for managing the contracted services, including contractors, and plans for meeting requirements for each level of service (LOS) described in the SOW.
 - b. Detailed quality control/assurance plan and methodology to ensure compliance with, and achievement of, the SOW.
- 3. Provide the Proposer's approach and methodology for phase-in transition, and how it will meet the requirements provided in the SOW.
- 4. Provide a narrative describing the Proposer's understanding of Reliability Centered Maintenance (RCM) requirements, and processes.
 - a. Describe how the Proposer plans to differentiate RCM from Preventive and Scheduled Maintenance.
 - b. Provide the Proposer's approach, and plan, to implement RCM to meet the requirements of the SOW.
- 5. Describe the Proposer's plan for providing and managing spare parts, replacement parts, equipment, expendables, and consumables to meet the requirement in the SOW.

F. PERSONNEL/STAFFING REQUIREMENTS (20 points)

- 1. Detail the Proposer's overall approach to recruiting staff that will meet the requirements provided in the SOW. Provide staffing approach for each of the stated LOS.
 - a. Describe the Proposer's proposed full service 24/7, three-hundred and sixty-five days (365) days per year schedule detailing the responsibilities of assigned team member personnel to meet the described LOS.
 - b. Describe the Proposer's approach to meeting on-site response time requirements described in the SOW.
- 2. Detail background and experience of the Proposer's proposed contractor and team member personnel, including proposed contractor personnel; rationale for selection of team members and their assigned roles. Both the contractor, and its subcontractor(s), key personnel shall have a minimum of 5 years verifiable experience in Operations and Maintenance of HVAC Systems at large campus facilities similar to those described in the SOW, and with a capacity greater than 20,000 tons of industrial cooling and 50,000 lb/hour of industrial steam boiler and heating operations.
 - a. Provide copies of key personnel resumes, certifications and state licenses required for the operation and maintenance of HVAC systems.
 - b. Provide detail of personnel's years of experience, training, education, and other qualifications that are required to operate and maintain the HVAC systems and at each of the LOS defined in the SOW.
 - c. Provide organizational chart detailing key personnel, and team members, for proposed staffing levels to meet the requirements of the SOW.

- d. Provide a chart showing corporate organization starting from the CEO to the Project Manager and indicate how this organization will interface with HAS.
- Describe the experience of the individual selected as primary on-site Project/Operations Manager of the contracted work; rationale for his/her selection. If an individual has not been selected at time of proposal, the Contractor must submit a detailed job description, including minimum qualifications, for this position.

G. PRICING (30 points)

- 1. Describe the Proposer's overall understanding of the LOS bid pricing. (5 Points)
- 2. Describe the Proposer's methodology and approach to providing the bid price for each LOS. (10 Points).
 - a. Describe the Proposer's plan to adjust for possible HAS decisions to increase, or decrease, LOS for selected buildings.
- 3. Lowest total price gets Maximum Points. Formula: Lowest Total Price/Proposer's Total Price X Maximum Points (15) = Evaluation Score

H. QUALIFICATION/HVAC EXPERIENCE (15 points)

- 1. Describe the Proposer's company experience in the services requested in the SOW.
- 2. Description of a minimum of two (2) and a maximum of five (5) HVAC Operation and Maintenance contracts performed by the Proposer's company that are similar in type, scope, cost and magnitude of that described in the SOW. Description should include at a minimum the location, owner, client (name, title, phone number and email), contractors, and further description of what services that the Proposer's company was contracted to perform.
 - a. Similar service contracts include those from large campuses such as airports, college/universities, hospitals, sports arenas and convention centers.
 - b. Related experience includes at a minimum, campuses with multiple customers serving facilities with at least one building that has a square footage greater than 900,000 sf².
 - c. Related experience includes at a minimum hybrid with a capacity minimum of 20,000 tons of cooling, and 50,000 lb./hour of steam boiler operation. Also includes experience with Low-Medium Voltage Central Plant Electrical Operation with a minimum of 10MW.
- Describe whether the Proposer has ever been terminated early from a service contract and has ever not been selected for renewal of a service contract. Identify each occurrence. Proposer to explain why for both scenarios if they apply.
- 4. Provide references from the owners of at least two of the campuses in which the Proposer's company was contracted to maintain facilities that are similar in type, scope, cost and magnitude of that described in the SOW.

I. EFFICIENCY/SUSTAINABILITY/ENERGY SAVINGS/TRAINING (10 points)

- 1. Explain the Proposer's company strategy to enhancement/efficiency programs such evaluating energy usage and identifying opportunities for efficiencies and savings.
 - a. Describe how these programs have been performed by the Proposer's company within the past five (5) years at facilities similar to those described in the SOW.
- 2. Explain the Proposer's approach to Sustainability and how the Proposer's company would apply that approach to this contract.
- Describe the Proposer's training program including, but not limited to, procedures and checklists for ensuring personnel, including newly hired workers, are familiar with all work of HVAC systems and Operations.

J. COMPUTERIZED MAINTENANCE MANAGEMENT SYSTEMS (CMMS) (10 points)

- 1. Describe the Proposer's overall understanding of the HAS requirements for HAS Enterprise Asset Management System (EAMS) as it is provided in the SOW.
- 2. Describe the Proposer's experience with CMMS
- 3. Provide example of a proposed Preventive Maintenance (PM) plan (including PM schedules, tasks and checklist), and the Proposer's approach to integrating that information into a CMMS.

K. ADDITIONAL RELATED SERVICES

1. In submitting Proposal, Proposer(s) shall indicate a willingness to negotiate future potential additional services deemed appropriate for the scope of services, as provided herein, or deemed necessary and/or desirable by the City.

L. <u>INTERLOCAL CONTRACT:</u>

- Under the same terms and conditions hereunder, the Contract may be expanded to other government entities through inter-local contracts between the City of Houston and the respective government entity that encompass all or part of the products/services provided under this contract. Separate contracts will be drawn to reflect the needs of each participating entity.
- 2. The City requires timely and accurate accounting and billing information.

M. BEST AND FINAL OFFER ("BAFO")

The City reserves the right to request a BAFO from finalist Proposer(s), if necessary.

PART IV - SUBMISSION OF PROPOSAL

A. Instructions for Submission

1. <u>Number of Copies</u>. Submit **five (7)** copies of the Proposal, including one (1) printed originals signed in BLUE ink, and five (5) electronic thumb drives sealed in a separate envelope bearing the assigned solicitation number (located on the first page of this RFP document) to:

Cathy Vander Plaats Aviation Procurement Officer 18600 Lee Road Houston, Texas 77338

The City of Houston shall bear no responsibility for submitting responses on behalf of any Proposer. Proposer(s) may submit their Proposal to the Supply Chain Management any time prior to the stated deadline.

- 2. <u>Time for Submission</u>. Proposals shall be submitted no later than the date and time indicated for submission in this RFP. Late proposals will not be considered and will be returned unopened.
- 3. <u>Format</u>. Proposal must be left-bound with information on both sides of the page when appropriate. Material should be organized following the order of the submission requirements separated by labeled tabs, and shall be securely bound. Submission materials will not be returned to Proposers.
- 4. <u>Complete Submission</u>. Proposers are advised to carefully review all the requirements and submit all documents and information as indicated in this RFP. Incomplete proposals may lead to a proposal being deemed non-responsive, meaning that non-responsive proposals will not be considered.

- 5. Packaging and Labeling. The outside wrapping/envelope shall clearly indicate the RFP title, date, and time for submission. It shall also indicate the name of the Proposer. The Price Proposal shall be submitted in a separate sealed envelope. The envelope shall clearly identify the content as "Price Proposal." Thumb drives shall be submitted in yet another sealed envelope and marked accordingly. All other submission requirements shall be included with the Proposer's Technical Proposal.
- 6. <u>Timely Delivery of Proposals</u>. The Proposal, including the Technical Proposal, Fee Schedule and signed Offer and Submittal form must be delivered by hand or mailed by one's preferred courier to the address shown on the cover sheet of this RFP. Include the RFP number on any package delivered or sent to the Supply Chain Management's Office and on any correspondence related to the Proposal. If using an express delivery service, the package must be addressed and delivered specifically to the Supply Management Office. Packages delivered by express mail services to other locations may not be re-delivered to its destination by the deadline hour.
- 7. <u>Late Proposals</u>. Proposers remain responsible for ensuring that its Proposal is received at the time, date, place, and office specified. The City assumes no responsibility for any Proposal not received, regardless of whether the delay is caused by the U.S. Postal Service, a courier delivery service, or some other act or circumstance.

B. Submission Requirements

- 1. <u>Cover Letter</u>. The cover letter shall be signed by an authorized representative of the Proposer. The letter should indicate the Proposer's commitment to provide the services proposed and contain evidential information supporting that your firm exists within Harris County.
- 1. <u>Executive Summary:</u> The executive summary should include a brief overview of the solution proposed, the overall strategy for implementation, the key personnel who will be responsible for seeing the project through completion.
- 2. Offer and Submittal Form: See Exhibit I
- 3. <u>General Company Information</u>: Provide the name of your company (including the name of any parent company), business address, e-mail address, Federal Tax ID number, telephone number, and fax number. (*At a minimum qualification, company must possess an office within Harris County, Texas.*)
 - 2.1 Key Personnel: Identify the key personnel that will be committed to the project. The City reserves the right to reject any key personnel proposed if it is determined in the City's best interest. All key personnel must be committed to the project at the appropriate time level. Proposer understands that the qualifications and experience of key personnel proposed will be factored into the evaluation process; therefore, key personnel must not be replaced without the approval of the City. Any approved substitutions must be with personnel of equal or better qualifications. In addition, any other commitments must not conflict with the level of commitment proposed for this project.
 - 2.1.1 Provide names and titles of key personnel and an organizational chart of your proposed project team. Provide professional resumes of all key personnel. At a minimum, key personnel must possess current professional certifications as indicated below for:
 - 2.1.1.1 Field Inspectors and Field Manager
- 4. <u>M/WBE Participation</u>: Identify an M/WBE contractor and submit a signed-off "M/WBE Letter of Intent" form identifying the role of each contractor for this implemented project.

- 5. <u>Financial Stability</u>: a) Provide the audited financial statements for the past two years; and b) submit either the Federal Tax Forms filed to the Internal Revenue Service (IRS) for the past two fiscal years (or) your firm's Dunn & Bradstreet Report. (At a minimum, include the letter of opinion, balance sheet, schedules, and related auditor's notes.)
- 6. <u>Exceptions to Standard Contract</u>: Submit any Exceptions to the standard contract and include the rationale for taking the Exception. Provide rationale for objections to the Article. Such Exceptions will be considered when evaluating the Proposer's response to this RFP. If you are proposing alternate language, include the proposed language for consideration, along with the corresponding Article Nos. within the RFP.
- 7. <u>Legal Actions</u>: Provide a list of any pending litigation and include a brief description of the reason for legal action.
- 8. <u>Conflict of Interest</u>: Provide information regarding any real or potential conflict of interest. Failure to address any potential conflict of interest upfront may be cause for rejection of the Proposal.
- 9. Other: Submit any information the Proposer deems pertinent to demonstrating its qualifications to perform the services being requested, such as memberships in any professional associations, documents, examples, etc.
- 10. Forms and Certifications: Complete all forms and certifications attached, as appropriate.

Part V – EXCEPTIONS TO TERMS AND CONDITIONS

All exceptions included with the Proposal shall be submitted in a clearly identified separate section of the Proposal in which the Proposer clearly cites the specific paragraphs within the RFP where the Exceptions occur. Any Exceptions not included in such a section shall be without force and effect in any resulting contract unless such Exception is specifically referenced by the Chief Procurement Officer or designee, City Attorney, Director(s) or designee in a written statement. The Proposer's preprinted or standard terms will not be considered by the City as a part of any resulting contract.

All Exceptions that are contained in the Proposal may negatively affect the City's Proposal evaluation based on the evaluation criteria as stated in the RFP or result in possible rejection of Proposal.

Part VI – SPECIAL CONDITIONS

A. No Contact Period

Neither Proposer(s) nor any person acting on Proposer(s)'s behalf shall attempt to influence the outcome of the award by the offer, presentation or promise of gratuities, favors, or anything of value to any appointed or elected official or employee of the City of Houston, their families or staff members. All inquiries regarding the solicitation are to be directed to the designated City Representative identified on the first page of the solicitation. Upon issuance of the solicitation through the pre-award phase and up to the date the City Secretary publicly posts notice of any City Council agenda containing the applicable award, aside from Proposer's formal response to the solicitation, through the pre-award phase, written requests for clarification during the period officially designated for such purpose by the City Representative, neither Proposers(s) nor persons acting on their behalf shall communicate with any appointed or elected official or employee of the City of Houston, their families or staff through written or oral means in an attempt to persuade or influence the outcome of the award or to obtain or deliver information intended to or which could reasonably result in an advantage to any Proposer. However, nothing in this paragraph shall prevent a Proposer from making public statements to the City Council convened for a regularly scheduled session after the official selection has been made and placed on the

City Council agenda for action, or to a City Council committee convened to discuss a recommendation regarding the solicitation.

B. Minority and Woman Business Enterprises (M/WBE)

Contactor shall comply with the City's Minority and Women Business Enterprise ("MWBE") programs as set out in Chapter 15, Article V of the City of Houston Code of Ordinances. Contractor shall make good faith efforts to award contractors or supply contracts in at least the value stated in this Contract to MWBE's. Contractor acknowledges that it has reviewed the requirements for good faith efforts on file with the City's Office of Business Opportunity (OBO) and will comply with them.

C. Compliance With Certain State Law Requirements

- Anti-Boycott of Israel. Contractor certifies that Contractor is not currently engaged in and agrees for the duration of this agreement not to engage in the boycott of Israel as defined by Section 808.001 of the Texas Government Code.
- 2. **Anti-Boycott of Energy Companies.** Contractor certifies that Contractor is not currently engaged in and agrees for the duration of this agreement not to engage in the boycott of energy companies as defined by Section 809.001 of the Texas Government Code.
- 3. Anti-Boycott of Firearm Entities of Firearm Trade Associations. Contractor certifies that Contractor does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association or will not discriminate against a firearm entity or firearm trade association for the duration of this agreement, as defined by Section 2274.001 of the Texas Government Code.
- 4. Certification of No Business with Foreign Terrorist Organizations. For purposes of Section 2252.152 of the Code, Contractor certifies that, at the time of this agreement neither Contractor nor any wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of Contractor, is a company listed by the Texas Comptroller of Public Accounts under Sections 2252-153 or 2270-0201 of the Code as a company known to have contracts with or provide supplies or to a foreign terrorist organization.
- 5. Executive Order 1-56 Zero Tolerance for Human Trafficking in City Service Contracts and Purchasing. The City has a zero tolerance for human trafficking, and, per Executive Order 1-56, city funds shall not be used to promote human trafficking. City vendors are expected to comply with this Executive Order and notify the City's Chief Procurement Officer of any information regarding possible violation by the vendor or its contractors providing services or good to the City. The Executive Order is available on the City's website: http://www.houstontx.gov/execorders/1-56.pdf.
- 6. SB 943 Public Information and Disclosure of Certain Contracting Information. "The requirements of Subchapter J, Chapter 552, Government Code (http://statutes.capitol.texas.gov/Docs/GV/htm/GV.552.htm#552), may apply to this (include "bid" or "contract" as applicable) and the contractor or vendor agrees that the contract can be terminated if the contractor or vendor knowingly or intentionally fails to comply with a requirement of that subchapter."

D. Protest

An interested party may file a protest on the basis that the City has failed to comply with applicable federal or state law or with City ordinances as set forth in City of Houston Administrative Policy 5-12. http://www.houstontx.gov/policies

PART VII - INSTRUCTIONS TO PROPOSERS

A. Pre-Proposal Conference

A Pre-Proposal Conference will be held at the date, time, and location as indicated on the first page of the RFP document. Interested Proposer(s) are encouraged to attend. It will be assumed that potential Proposer(s) attending this meeting have reviewed the RFP in detail and are prepared to bring up any substantive questions not already addressed by the City.

B. Additional Information and Specification Changes

Requests for additional information and questions should be addressed to Gabriel Carey, Houston Airport System, by telephone: (281) 230-8030; or by the preferred e-mail method to gabriel.carey@houstntx.gov no later than 12:00 PM, CST by Thursday August 11, 2022. The City of Houston shall provide written responses to all questions received by Proposers prior to the RFP proposal deadline. Questions received from all Proposer(s) shall be answered by the City and sent to Proposer(s) who are listed as having obtained the RFP. Proposer(s) shall be notified in writing of any changes in the specifications contained within this RFP.

C. Letter(s) of Clarification

- All Letters of Clarification and interpretations to this Solicitation shall be in writing. Any Letter of Clarification(s) or interpretation that is not in writing shall not legally bind the City of Houston. Only information supplied by the City of Houston in writing or in this RFP should be used in preparing Proposal responses.
- 2. The City does not assume responsibility for the receipt of any Letters of Clarification sent to Proposer(s).

D. Examination of Documents and Requirements

- 1. Each Proposer shall carefully examine all RFP documents and familiarize themselves with all requirements prior to submitting a Proposal to ensure that the Proposal meets the intent of this RFP.
- 2. Before submitting a Proposal, each Proposer shall be responsible for making all investigations and examinations that are necessary to ascertain conditions and affecting the requirements of this RFP. Failure to make such investigations and examinations shall not relieve the Proposer from obligation to comply, in every detail, with all provisions and requirements of the RFP.

F. Post-Proposal Discussions with Proposer(s)

It is the City's intent to commence final negotiation with the Proposer(s) deemed most advantageous to the City. The City reserves the right to conduct post-Proposal discussions with any Proposer(s).

PART VIII - REQUIRED FORMS TO BE SUBMITTED WITH PROPOSAL

- A. Offer and Submittal, List of References, and List of Proposed contractors (Exhibit I)
- B. Signed M/WBE Forms: Attachment "A" Schedule of M/WBE Participation, Attachment "B," Notice of Intent, Attachment "C," Certified M/WBE Contractor Terms, Attachment "D," Office of Business Opportunity and Contract Compliance M/WBE Utilization Report (Exhibit II)
- C. Fair Campaign Ordinance Form "A" (Exhibit III)
- D. Affidavit of Ownership or Control (Exhibit IV)

- E. Anti-Collusion Statement (Exhibit V)
- F. Proposer's Statement of Residency (Exhibit VI)
- G. Conflict of Interest Questionnaire (Exhibit VII)

PART IX – REQUIRED FORMS TO BE SUBMITTED BY RECOMMENDED VENDOR ONLY

Required forms shall be supplied to the Contractor after the award recommendation:

- A. Insurance Requirements and Sample Insurance Certificate
- B. Drug Compliance Contract Attachment "A," Drug Policy Compliance Declaration Attachment "B," and Contractor's Certification of No Safety Impact Positions Attachment "C" and "D"
- C. City Contractors' Pay or Play Acknowledgement Form (POP-1)
 http://www.houstontx.gov/obo/payorplay/pop1.pdf and Pay or Play Certificate of Compliance (POP-2)

 http://www.houstontx.gov/obo/payorplay/pop2.pdf (Exhibit IX)
- D. Hire Houston First Affidavit (Download Copy at http://www.houstontx.gov/obo/hirehoustonfirst.html and submit to Office of Business Opportunity, Houston Business Solutions Center by e-mail to houstontx.gov, or fax to 832-393-0650, or submit copy with proposal
- E. Requested information outlined in the scope of work and other additional relevant/supporting information, or alternate Proposal.

ATTACHMENT A DEFINITIONS

As used in this Agreement, the following terms have the meanings set out below:

- "Acceptable" means that services, equipment, or performance, meet or exceed the requirements of this Agreement.
- "Acceptance" shall be determined by the Director and occurs when the Director determines that the unit of Work specified under the Agreement is complete and acceptable.
- "Acceptable Equivalent" means any equipment, part or product that complies with existing industry standards governing its manufacture or use, and that is a functional equivalent of any equipment, part, product or specification described herein, or, which functionally satisfies an approved, negotiated or specified use made a part hereof.
- "Agreement" means the Agreement and written amendments authorized by City Council and Contractor or OSRs/change orders authorized by this Agreement between the City and Contractor whereby Contractor shall provide all specified Work in connection with the Agreement, in the manner provided by the Agreement.
- "Air Operations Area (AOA)" means any area of the airport used or intended to be used for the landing, takeoff, or surface maneuvering of aircraft. An air operations area shall include such paved and unpaved areas that are used or intended to be used for unobstructed movement of aircraft in addition to its associated runway, taxiway or apron.
- "Airport(s)" means George Bush Intercontinental Airport/Houston (IAH), William P. Hobby Airport (HOU), and Ellington Airport (EFD).
- "ASC" means the Airport Services Complex located at 4500 Will Clayton Parkway at IAH.
- "Basic Services" means those services described in the Performance/Work Statement set forth in Exhibit A Scope.
- "BAS" means Building Automated System.
- "Business Days" means all days of a calendar year.
- "CFM" means a unit of measure for discharged air in cubic feet per minute.
- "Central Utilities Plant (CUP)" means all supporting assets and locations.
- "City" means The City of Houston, Texas; this includes its successors and assigns.
- "City Purchasing Agent" is defined as the person or duly authorized successor, authorized in writing to act for the City. The term includes, except as otherwise provided in this Contract, the authorized representative of the City Purchasing Agent acting within the limits of delegated authority.
- "Contract or Agreement" means this contract and all Exhibits and written amendments authorized by City Council and Contractor or change orders thereto made and entered into by

and between the City and the Contractor whereby the Contractor shall provide all specified Work in connection with the Contract and in the manner provided by the Contract.

- "Contractor" means Company who is authorized to do business in Texas includes its successors and assigns.
- "Corrective Maintenance (CM)" means repair of equipment and systems with parts, materials, and labor to restore performance to the designed function in the event of any breakdown or stoppage of equipment or system where the equipment or system is unable to perform its designed function. CM includes repairs and replacement of related components, parts, and appurtenances that have failed, no longer perform reliably, or have worn beyond safe tolerances.
- "Critical Systems" is critical to HAS operations and requires an additional level of maintenance and shorter response time for repairs.
- "DDC" means direct digital control for HVAC devices.
- "Director" means the Director of the Houston Airport System or his designee in writing. The Agreement designates certain functions to be performed by the Director.
- "Documents" mean notes, manuals, notebooks, plans, computations, computer databases and diskettes, software, tabulations, exhibits, reports, underlying data, charts, analyses, maps, letters, models, forms, photographs, the original tracings of all drawings and plans, and other work products (and any modifications or improvements to them) that Contractor prepares or provides under this Agreement.
- "DX" means direct expansion system that uses refrigerant instead of chilled water.
- "EFD" means Ellington Airport.
- "Emergency" means a sudden, unexpected event requiring immediate action due to potential threat to health and safety, the environment, or property.
- **"Emergency Service Request"** means a request from the Director to Contractor to perform remedial maintenance or other work services due to a Major Failure or services deemed necessary by the Director. Contractor must respond to in accordance with the Response Times in the Scope of Work.
- "Enterprise Asset Management System (EAMS)" means the Houston Airport's computerized maintenance management system.
- **"Equipment"** means all machinery, together with the necessary supplies for upkeep and maintenance, and all tools and apparatus necessary for the proper and acceptable completion of the specified Work.
- **"Expendable Items"** are those items normally required during scheduled maintenance. The items are either consumed during use, used up during repeated use, or are not useable after one usage. They typically include, but are not limited to, oils, lubricants, filters, gaskets, cleaning

agents, paints, brooms, brushes, light bulbs, etc.

"First Class Condition" refers to the quality of systems, parts, equipment and related components and appurtenances including replacements ("elements"). It also refers to the condition of the wear and operation of the elements. When referring to the quality of the elements, First Class Condition means of a quality equal to or better than the elements as originally installed. When referring to the wear and operation of the elements, First Class Condition means a standard that is within the manufacturer's published tolerances for safe, reliable operation, or if no published tolerances, within generally accepted tolerances within the HVAC equipment maintenance industry.

"FIS" means Federal Inspection Services.

- "Force Majeure" means events beyond the reasonable control of a party to this Contract, which is limited to act of God, explosion, acts of the public enemy, fires, floods, earthquakes, tornadoes, epidemics, quarantine restrictions, work stoppages (expect for work stoppages resulting from practices of the Contractor which are the subject of a finding of unfair labor practices by an administrative law judge of the National Labor Relations Board and except further for foreseeable work stoppages for which the Contractor has not reasonably prepared to minimize the harm or loss that is occasioned by such work stoppage). Acceptable evidence of the occurrence (photographic, witness report, video etc.) is required from the Contractor. Any dispute regarding Force Majeure shall be resolved at the sole discretion of the Director whose decision shall be final.
- **"Furnish"** means to supply and deliver to the appropriate Airport site, ready for unloading, unpacking, assembly, installation, use, etc., as applicable in each instance, except as otherwise defined in greater detail.
- "Geographic Information System (GIS)" means a system to capture, store, manipulate, analyze, manage and present spatial or geographic data.
- "HOU" means William P. Hobby Airport.
- "Houston Airport System (HAS)" means the property and facilities of the City of Houston Department of Aviation which include, but are not limited to, George Bush Intercontinental Airport/Houston (IAH), William P. Hobby Airport (HOU), Ellington Airport (EFD), and the Houston Airport System Administration Buildings.
- **"HVAC Systems"** means heating, ventilating, air conditioning systems and all associated plumbing, electrical, and control systems.
- "IAH" means George Bush Intercontinental Airport/Houston.
- "Include" and "Including" and words of similar import, shall be deemed to be followed by the words "without limitation".
- "Level I, Perpetual Best Management Practices" means Individual assets or systems included in the Level I, Perpetual Best Management Practices Level of Service (LOS) will be maintained through Reliability-Centered Maintenance (RCM) protocols in addition to the planned and Preventive Maintenance (PM) recommended by original equipment manufacturer (OEM). As part of Level 1 Service, the contractor shall maintain the individual asset and/or system to a level in which it retains its' original Day One expected life cycle. In other words, the life cycle for the asset and/or individual system never declines when a Level I Perpetual Best Management Practice LOS is maintained.
- "Level II, Predictive Industry Standard" means individual assets or systems included in the Level II service shall be maintained by the contractor through the planned and Preventive Maintenance (PM) recommended by original equipment manufacturer (OEM). The primary objective of the Level II, Predictive Industry Standard LOS is to provide ongoing planned, preventive, and corrective maintenance on the asset and/or individual system such that the original life cycle is achieved.
- "Level III, Reactive, Routine Services" means individual assets or systems included in the <u>Level III</u>, Reactive Contractor Services LOS are maintained on an on-call basis and through authorized Other Services Request (OSR) by HAS. The normal Reliability Centered Maintenance, Preventative Maintenance, and Corrective Maintenance for these assets will be performed by HAS.
- "Liquidated Damages" means a clause that specifies a predetermined amount of money that must be paid as damages for failure to perform under this Agreement.
- "LOS" means Level of Service.
- **"Maintenance Facilities"** means the shop and office facilities the City provides to the Contractor as described in Section 2.16.5 of Exhibit "A." Such facilities are provided at IAH and HOU.

- "Maintenance Service" means Preventive Maintenance (PM), Predictive Maintenance (PdM), Reliability Centered Maintenance (RCM) and Remedial Maintenance (RM).
- "Major Equipment" means large mechanical and electrical machinery or apparatus including specifically electric and steam driven chillers, steam condensers, boilers, cooling towers, steam/hot water converters, deaerators, chilled and condenser water pumps systems, and related electrical switchboards and motor control centers, plus major parts of the above including, but not limited to, compressors, speed reducers and increasers, motors, heat exchangers, and related electrical switches and starters. For the purpose of providing Major Equipment Failure Insurance coverage pursuant to the terms of this Agreement, major equipment shall specifically exclude other mechanical and electrical machinery powered by motors of less than 100 horsepower, other heat exchangers and systems components, and appurtenances.
- "Manufacturer" means the original manufacturer or producer of a part or component.
- "Materials" means any substance specified for use in the accomplishment of the Work.
- "Must/Shall/Will" means a mandatory requirement.
- "Notice to Proceed" means a written communication from the Director to Contractor instructing Contractor to begin performance.
- "**OEM**" means the Original Equipment Manufacturer.
- "Operation or Operational" means that the equipment is maintained at the level necessary to ensure that it is in a state of readiness for its intended use or full functional status and maintained in such condition for the use for which it is intended.
- "Other Service Request (OSR)" is the form used to request Other Work/Services within the general scope of this Agreement but not expressly set forth in Exhibit "A."
- "Other Work/Services" means those services described in Performance/Statement of Work and Exhibit F-3 OSR Fee Schedule as Other Work/Services and other services related to operations and maintenance services, other than Basic Services. Such services are only provided by Contractor upon the Director's written request.
- "Personnel" is defined being any person assigned to perform under this Agreement, no matter how slight their contribution may be, including but not limited to Contractor's employees and its Subcontractor's employees providing janitorial services under this Agreement.
- "Preventive Maintenance (PM)" is any action performed on a time or run-hour based schedule that is designed to detect, preclude, or mitigate degradation of a component or system with the aim of sustaining or extending its useful life through controlling degradation to an acceptable level. PM includes proper inspections, proper lubrication, belts, filter changes, proper fastening procedures, determined by regularly scheduled work, etc. Preventive maintenance activities should be at least 95% of all planned and scheduled PMs shall be completed within the monthly schedule as described in Section 3.6.
- "Provide" means furnish and install, complete, and ready for intended use, as applicable in each instance, except as otherwise defined in greater action.
- "Level III, Reactive Routine Services" means individual assets or systems included in the Reactive Services LOS will be maintained operational through corrective maintenance.
- "Reliability Centered Maintenance (RCM)" The application of Pd.M. and PM data to the preventive maintenance tasks. The process provides statistical method (s) of optimizing PM and Pd.M. programs for the HVAC Systems in which the Contractor gathers data from the HVAC performance and uses this data for the

future maintenance and /or recommended design changes to increase the probability that the HVAC will function in the required manner over their design life-cycle.

- "Remedial Maintenance (RM)" means repair of equipment and systems with parts, materials, and labor to restore performance to the designed function in the event of any breakdown or stoppage of equipment or system where the equipment or system is unable to perform its designed function. RM includes repairs and replacement of related components, parts, and appurtenances that have failed, no longer perform reliably, or have worn beyond safe tolerances.
- "Repair" means to restore to good or sound working condition.
- "Repair Time" means the interval of time between issuance of corrective maintenance work order and return of the system to operation.
- "Replacement Equipment" means equipment of similar capacity to existing equipment provided when the primary equipment is out of service.
- "Replacement Parts" means any item which by its installation becomes part of the HVAC System.
- "Response Time" means the maximum elapsed time in which Contractor must respond to an Emergency Service Request. The maximum elapsed time is measured from Contractor's receipt of an Emergency Service Request to Contractor's arrival at the specified work site.
- "Routine" means those services that do not require emergency condition.
- "SCM" means Supply Chain Management Division located at 18600 Lee Rd., Humble TX. 77338.
- "Service" means to provide the labor, tools, equipment, and all items required to minimize maintenance requirements and ensure proper systems and equipment performance based on manufacturer's recommended procedures.
- "Statement of Work" (SOW) is defined as the performance/work statement described in Exhibit "A."
- "Subcontractor" shall include all subcontractors and sub-subcontractors no matter how far removed from the prime Contractor they are. The provisions of this Agreement may not be circumvented through the addition of multiple layers of contracting.
- "**Taxiway"** means the portion of the Air Operations Area of an Airport that has been designated by the HAS for movement of aircraft to and from the Airport's runways and aircraft parking areas.
- "Third Party Damage" means equipment damages and/or failures resulting from, but not limited to, uncontrollable events or conditions, accidents/damages, misuse of equipment, vandalism/abuse, and/or other causes that directly or indirectly affect the operation of the equipment, and which have not been caused by the Contractor's employees or its subcontractors. Acceptable evidence of the occurrence (photographic, witness report, video etc.) is required from the Contractor.
- "Threshold" means for OSR parts that exceeds a preestablished costs as described in Section 4.11 Contractor shall provide all replacement O&M parts where the unit cost is equal to or falls below the established threshold. Such cost will not take into account Contractor's labor or shipping cost, but actual cost of the replacement part. Contractor shall provide all replacement O&M parts where the unit cost is equal to or falls below the established threshold as described in Section 4.2.10. Such cost will not take into account Contractor's labor or shipping cost, but actual cost of the replacement part.

- "**Upgrade**" means to modify or replace existing equipment in order to achieve a specified objective or the latest state-of-the-art configuration or both.
- "Urgent Service Request" is defined as non-remedial maintenance request for immediate action. An urgent service request may be issued outside of Normal Business Hours, in which case additional labor charges will apply.
- "**VFD**" means Variable Frequency Drive. A system for controlling the rotational speed of an alternating current (AC) electric motor by controlling the frequency of the electrical power supplied to the motor.
- **"Work"** means all services to be provided by the Contractor under this Agreement, specifically, without limitation, Exhibit "A".

ATTACHMENT B FEE SCHEDULE – LEVELS OF SERVICE

YEAR 1 - LEVELS OF SERVICE

Notes:

- 1. Reference Scope of Work Statement, Attachment "C" Equipment Lists & Attachment "D" Buildings
- 2. Contractor level of service bid pricing will be effective for duration of contract and be defined as "Unit Pricing" if new Terminal/Public Facilities, Admin/Support Buildings and Remote Buildings are added or subtracted from the contract.

AIRPORT/BUILDING/LOCATION	ANNUAL LUMP SUM COST		COST
	LEVEL I PERPETUAL Best Management	Level II PREDICTIVE Industry Standard	LEVEL III REACTIVE Routine Service
	Practice		
AH TERMINAL/PUBLIC FACILITIES			
Terminal A	\$	\$	\$
Terminal B	\$	\$	\$
Terminal C	\$	\$	\$
Terminal D	\$	\$	\$
Terminal E Ticket Counter and Checkpoint	\$	\$	\$
Federal Inspection Services (FIS)	\$	\$	\$
Terminal A/B Parking Garage	\$	\$	\$
Terminal C - West Parking Garage	\$	\$	\$
Terminal C - East Parking Garage	\$	\$	\$
Terminal D/E - Parking Garage	\$	\$	\$
AH AIRPORT ADMIN/SUPPORT BUILDINGS			
Skyway Maintenance Facility	\$	\$	\$
HAS Administration Complex - 16930 JFK Blvd	\$	\$	\$
ARFF Station 54 - 19006 Aldine Westfield	\$	\$	\$
ARFF Station 92 - 4300 Will Clayton	\$	\$	\$
ARFF Station 99 - 18580 Chanute Rd	\$	\$	\$
HAS GSF (General Services Facility) - 4520 Will Clayton	\$	\$	\$
HAS Airport Operations Building/Complex - 4775 Will Clayton	\$	\$	\$
Airport Services Complex - 4500 Will Clayton	\$	\$	\$
Supply Chain Management Complex - 18600 Lee Rd	\$	\$	\$
Infrastructure Division Office (IDO) - 111 Standifier St.	\$	\$	\$
Skyway Power Station (PDS 1, PDS 2 & PDS 3)	\$	\$	\$
South Vault	\$	\$	\$
North Vault	\$	\$	\$
West Vault	\$	\$	\$
AH REMOTE BUILDINGS			
K-9 Bldg. 2452 Rankin Rd	\$	\$	\$
Inbound JFK/South Aircraft Bridge	\$	\$	\$
Ground Transportation Center Complex - 6135 Will Clayton Pkwy	\$	\$	\$
Fleet Maintenance Facility - 18201 Viscount Rd, Bldg. G, #G300	\$	\$	\$
Guard Booths located at AOA Gates (9 total) & Loading Docks - (2 total)	\$	\$	\$
Fumigation Bldg 19151 Lee Rd.	\$	\$	\$
One Stop Cargo Bldg 19581 Lee Rd.	\$	\$	\$
HAS Cargo Building 18500-A Lee Road	\$	\$	\$
Eco Park 2 IDF Room - 5021 will Clayton Pkwy	\$	\$	\$
Electrical Vaults on AOA - 3 Total (North, South, & West)	\$	\$	\$
YEAR 1 SUBTOTAL - IAH	œ	\$ -	\$ -

HOU TERMINAL/PUBLIC FACILITIES			
HOU Terminal Building	\$	\$	\$
HOU International Terminal Building	\$	\$	\$
HOU Blue Garage	\$	\$	\$
HOU Red Garage	\$	\$	\$
	•	•	•
HOU AIRPORT ADMIN/SUPPORT BUILDINGS			
Admin Building - 8800 Paul B. Koonce St.	\$	\$	\$
Fleet Facility, 8913 Paul B. Koonce St.	\$	\$	\$
Outbound Baggage Building	\$	\$	\$
ARFF Station 81	\$	\$	\$
Price Compressor Facility	\$	\$	\$
Electrical Vaults - 2 Total (North & South)	\$	\$	\$
South Electrical Vault	\$	\$	\$
HOU REMOTE BUILDINGS			
Taxi Staging Lot	\$	\$	\$
YEAR 1 SUBTOTAL - HOU	\$ -	\$ -	\$ -
EFD AIRPORT ADMIN/SUPPORT BUILDINGS			
Admin Building - 11502 Aerospace Ave, Bldg. 510	\$	\$	\$
Airfield and Grounds Building - 5011 Farley	\$	\$	\$
Houston Aerospace Support Center - 13150 Space Center Blvd	\$	\$	\$
HPD Facility - 11602 Kirk Ave	\$	\$	\$
EFD REMOTE BUILDINGS			
New Tower - 11501 Brantley Ave	\$	\$	\$
Lighting Vaults - 11301 Blume Ave, Bldg. 778	\$	\$	\$
Generators North & South - Airside	\$	\$	\$
T- Hangers (6 total/90 units)	\$	\$	\$
YEAR 1 SUBTOTAL - EFD	\$ -	\$ -	\$ -
YEAR 1 GRAND TOTAL - IAH, HOU, & EFD	\$ -	\$ -	\$ -
i zini i divalo i di azi, ilogi, di el o	-	-	-
YEAR 1 - UNIT PRICING	<u>U</u> nit	Price Per Square	Foot
IAH Unit Pricing	\$/SF	\$/SF	\$/SF
Inclusion/Exclusion Rate Per Square Footage	\$	\$	\$
			_
	Unit Price Per Square Foot		
HOU Unit Pricing	\$/SF	\$/SF	\$/SF
Inclusion/Exclusion Rate Per Square Footage	\$	\$	\$
	11-4	Dring Dor Sauces	Foot
EED Unit Prining	\$/SF	Price Per Square \$/SF	\$/SF
EFD Unit Pricing			
Inclusion/Exclusion Rate Per Square Footage	\$	\$	\$

YEAR 2 - LEVELS OF SERVICE

- 1. Reference Scope of Work Statement, Attachment "C" Equipment Lists & Attachment "D" Buildings
- 2. Contractor level of service bid pricing will be effective for duration of contract and be defined as "Unit Pricing" if new Terminal/Public Facilities, Admin/Support Buildings and Remote Buildings are added or subtracted from the contract.

NRPORT/BUILDING/LOCATION	ANNU	AL LUMP SUM	COST
YEAR 2	LEVEL I PERPETUAL Best Management Practice	LEVEL II PREDICTIVE Industry Standard	LEVEL III REACTIVE Routine Service
AH TERMINAL/PUBLIC FACILITIES			
Terminal A	\$	\$	\$
Terminal B	\$	\$	\$
Terminal C	\$	\$	\$
Terminal D	\$	\$	\$
Terminal E Ticket Counter and Checkpoint	\$	\$	\$
Federal Inspection Services (FIS)	\$	\$	\$
Terminal A/B Parking Garage	\$	\$	\$
Terminal C - West Parking Garage	\$	\$	\$
Terminal C - East Parking Garage	\$	\$	\$
Terminal D/E - Parking Garage	\$	\$	\$
<u> </u>			
AH AIRPORT ADMIN/SUPPORT BUILDINGS			
Skyway Maintenance Facility	\$	\$	\$
HAS Administration Complex - 16930 JFK Blvd	\$	\$	\$
ARFF Station 54 - 19006 Aldine Westfield	\$	\$	\$
ARFF Station 92 - 4300 Will Clayton	\$	\$	\$
ARFF Station 99 - 18580 Chanute Rd	\$	\$	\$
HAS GSF (General Services Facility) - 4520 Will Clayton	\$	\$	\$
HAS Airport Operations Building/Complex - 4775 Will Clayton	\$	\$	\$
Airport Services Complex - 4500 Will Clayton	\$	\$	\$
Supply Chain Management Complex - 18600 Lee Rd	\$	\$	\$
Infrastructure Division Office (IDO) - 111 Standifier St.	\$	\$	\$
Skyway Power Station (PDS 1, PDS 2 & PDS 3)	\$	\$	\$
South Vault	\$	\$	\$
North Vault	\$	\$	\$
West Vault	\$	\$	\$
Troot radii	1 *	1 *	<u> </u>
AH REMOTE BUILDINGS			
K-9 Bldg. 2452 Rankin Rd	\$	\$	\$
Inbound JFK/South Aircraft Bridge	\$	\$	\$
Ground Transportation Center Complex - 6135 Will Clayton Pkwy	\$	\$	\$
Fleet Maintenance Facility - 18201 Viscount Rd, Bldg. G, #G300	\$	\$	\$
Guard Booths located at AOA Gates (9 total) & Loading Docks - (2 total)	\$	\$	\$
Fumigation Bldg 19151 Lee Rd.	\$	\$	\$
One Stop Cargo Bldg 19581 Lee Rd.	\$	\$	\$
HAS Cargo Building 18500-A Lee Road	\$	\$	\$
Eco Park 2 IDF Room - 5021 will Clayton Pkwy	\$	\$	\$
Electrical Vaults on AOA - 3 Total (North, South, & West)	\$	\$	\$
		ı .	ı ·

LIGHTEDMINAL /DUDLIC FACILITIES			
HOU TERMINAL/PUBLIC FACILITIES		Φ.	•
HOU Terminal Building	\$	\$	\$
HOU International Terminal Building	\$	\$	\$
HOU Blue Garage	\$	\$	\$
HOU Red Garage	\$	\$	\$
		I	
HOU AIRPORT ADMIN/SUPPORT BUILDINGS			
Admin Building - 8800 Paul B. Koonce St.	\$	\$	\$
Fleet Facility, 8913 Paul B. Koonce St.	\$	\$	\$
Outbound Baggage Building	\$	\$	\$
ARFF Station 81	\$	\$	\$
Price Compressor Facility	\$	\$	\$
Electrical Vaults - 2 Total (North & South)	\$	\$	\$
South Electrical Vault	\$	\$	\$
		ı	
HOU REMOTE BUILDINGS			
Taxi Staging Lot	\$	\$	\$
YEAR 2 SUBTOTAL - HOU	\$ -	\$ -	\$ -
EFD AIRPORT ADMIN/SUPPORT BUILDINGS			
Admin Building - 11502 Aerospace Ave, Bldg. 510	\$	\$	\$
Airfield and Grounds Building - 5011 Farley	\$	\$	\$
Houston Aerospace Support Center - 13150 Space Center Blvd	\$	\$	\$
HPD Facility - 11602 Kirk Ave	\$	\$	\$
EFD REMOTE BUILDINGS			
New Tower - 11501 Brantley Ave	\$	\$	\$
Lighting Vaults - 11301 Blume Ave, Bldg. 778	\$	\$	\$
Generators North & South - Airside	\$	\$	\$
T- Hangers (6 total/90 units)	\$	\$	\$
YEAR 2 SUBTOTAL - EFD	\$ -	\$ -	\$ -
	1.		
YEAR 2 GRAND TOTAL - IAH, HOU, & EFD		\$ -	\$ -
YEAR 2 - UNIT PRICING		Price Per Square	Foot
IAH Unit Pricing	\$/SF	\$/SF	\$/SF
Inclusion/Exclusion Rate Per Square Footage	\$	\$	\$
		Price Per Square	
HOU Unit Pricing	\$/SF	\$/SF	\$/SF
Inclusion/Exclusion Rate Per Square Footage	\$	\$	\$
		Price Per Square	
EFD Unit Pricing	\$/SF	\$/SF	\$/SF
Inclusion/Exclusion Rate Per Square Footage	\$	\$	\$

YEAR 3 - LEVELS OF SERVICE

- 1. Reference Scope of Work Statement, Attachment "C" Equipment Lists & Attachment "D" Buildings
- 2. Contractor level of service bid pricing will be effective for duration of contract and be defined as "Unit Pricing" if new Terminal/Public Facilities, Admin/Support Buildings and Remote Buildings are added or subtracted from the contract.

ARPORT/BUILDING/LOCATION	ANNUAL LUMP SUM COST							
YEAR 3	LEVEL I PERPETUAL Best	LEVEL II PREDICTIVE Industry	LEVEL III REACTIVE Routine					
	Management Practice	Standard	Service					
AH TERMINAL/PUBLIC FACILITIES								
Terminal A	\$	\$	\$					
Terminal B	\$	\$	\$					
Terminal C	\$	\$	\$					
Terminal D	\$	\$	\$					
Terminal E Ticket Counter and Checkpoint	\$	\$	\$					
Federal Inspection Services (FIS)	\$	\$	\$					
Terminal A/B Parking Garage	\$	\$	\$					
Terminal C - West Parking Garage	\$	\$	\$					
Terminal C - East Parking Garage	\$	\$	\$					
Terminal D/E - Parking Garage	\$	\$	\$					
AH AIRPORT ADMIN/SUPPORT BUILDINGS								
Skyway Maintenance Facility	\$	\$	\$					
HAS Administration Complex - 16930 JFK Blvd	\$	\$	\$					
ARFF Station 54 - 19006 Aldine Westfield	\$	\$	\$					
ARFF Station 92 - 4300 Will Clayton	\$	\$	\$					
ARFF Station 99 - 18580 Chanute Rd	\$	\$	\$					
HAS GSF (General Services Facility) - 4520 Will Clayton	\$	\$	\$					
HAS Airport Operations Building/Complex - 4775 Will Clayton	\$	\$	\$					
Airport Services Complex - 4500 Will Clayton	\$	\$	\$					
Supply Chain Management Complex - 18600 Lee Rd	\$	\$	\$					
Infrastructure Division Office (IDO) - 111 Standifier St.	\$	\$	\$					
Skyway Power Station (PDS 1, PDS 2 & PDS 3)	\$	\$	\$					
South Vault	\$	\$	\$					
North Vault	\$	\$	\$					
West Vault	\$	\$	\$					
AH REMOTE BUILDINGS								
K-9 Bldg. 2452 Rankin Rd	\$	\$	\$					
Inbound JFK/South Aircraft Bridge	\$	\$	\$					
Ground Transportation Center Complex - 6135 Will Clayton Pkwy	\$	\$	\$					
Fleet Maintenance Facility - 18201 Viscount Rd, Bldg. G, #G300	\$	\$	\$					
Guard Booths located at AOA Gates (9 total) & Loading Docks - (2 total)	\$	\$	\$					
Fumigation Bldg 19151 Lee Rd.	\$	\$	\$					
One Stop Cargo Bldg 19581 Lee Rd.	\$	\$	\$					
HAS Cargo Building 18500-A Lee Road	\$	\$	\$					
Eco Park 2 IDF Room - 5021 will Clayton Pkwy	\$	\$	\$					
Electrical Vaults on AOA - 3 Total (North, South, & West)	\$	\$	\$					
			Page 75 of 1					
YEAR 3 SUBTOTAL - IAH	\$ -	\$ -	\$ 296 75 01					

HOU TERMINAL/PUBLIC FACILITIES			
HOU Terminal Building	\$	\$	\$
HOU International Terminal Building	\$	\$	\$
HOU Blue Garage	\$	\$	\$
HOU Red Garage	\$	\$	\$
HOU AIRPORT ADMIN/SUPPORT BUILDINGS			
Admin Building - 8800 Paul B. Koonce St.	\$	\$	\$
Fleet Facility, 8913 Paul B. Koonce St.	\$	\$	\$
Outbound Baggage Building	\$	\$	\$
ARFF Station 81	\$	\$	\$
Price Compressor Facility	\$	\$	\$
Electrical Vaults - 2 Total (North & South)	\$	\$	\$
South Electrical Vault	\$	\$	\$
	.L.'	L.'	_l ·
HOU REMOTE BUILDINGS			
Taxi Staging Lot	\$	\$	\$
Taxi Gaging Edit	ΙΨ	ΙΨ	Ψ
YEAR 3 SUBTOTAL - HOU	\$ -	\$ -	\$ -
TEAR OODT OTAL TIOO		Ψ -	Ψ
EFD AIRPORT ADMIN/SUPPORT BUILDINGS			
Admin Building - 11502 Aerospace Ave, Bldg. 510	\$	\$	\$
Airfield and Grounds Building - 5011 Farley	\$	\$	\$
	\$	\$	\$
Houston Aerospace Support Center - 13150 Space Center Blvd	\$		\$
HPD Facility - 11602 Kirk Ave	Φ	\$	Φ
EFD REMOTE BUILDINGS			
New Tower - 11501 Brantley Ave	\$	\$	\$
	\$	\$	\$
Lighting Vaults - 11301 Blume Ave, Bldg. 778	\$		1 -
Generators North & South - Airside	† ·	\$	\$
T- Hangers (6 total/90 units)	\$	\$	\$
VEAD A QUIDTATAL FED	•	¢	•
YEAR 3 SUBTOTAL - EFD	\$ -	\$ -	\$ -
VEAD CODAND TOTAL IAIL HOLL CETO	•	¢	•
YEAR 3 GRAND TOTAL - IAH, HOU, & EFD	\$ -	\$ -	\$ -
YEAR 3 - UNIT PRICING	** **	Duine Des C	- F <i>t</i>
		Price Per Square	
IAH Unit Pricing	\$/SF	\$/SF	\$/SF
Inclusion/Exclusion Rate Per Square Footage	\$	\$	\$
		Dulas De Co	
Halli kali		Price Per Square	
HOU Unit Pricing	\$/SF	\$/SF	\$/SF \$
Inclusion/Exclusion Rate Per Square Footage	\$	Ψ	Φ
		D	. =
		Price Per Square	
EFD Unit Pricing	\$/SF	\$/SF	\$/SF
Inclusion/Exclusion Rate Per Square Footage	\$	\$	\$

YEAR 4 - LEVELS OF SERVICE

- 1. Reference Scope of Work Statement, Attachment "C" Equipment Lists & Attachment "D" Buildings
- 2. Contractor level of service bid pricing will be effective for duration of contract and be defined as "Unit Pricing" if new Terminal/Public Facilities, Admin/Support Buildings and Remote Buildings are added or subtracted from the contract.

IRPORT/BUILDING/LOCATION	ANNUAL LUMP SUM COST									
YEAR 4	LEVEL I PERPETUAL Best	LEVEL II PREDICTIVE Industry	LEVEL III REACTIVE Routine							
,	Management Practice	Standard	Service							
AH TERMINAL/PUBLIC FACILITIES										
Terminal A	\$	\$	\$							
Terminal B	\$	\$	\$							
Terminal C	\$	\$	\$							
Terminal D	\$	\$	\$							
Terminal E Ticket Counter and Checkpoint	\$	\$	\$							
Federal Inspection Services (FIS)	\$	\$	\$							
Terminal A/B Parking Garage	\$	\$	\$							
Terminal C - West Parking Garage	\$	\$	\$							
Terminal C - East Parking Garage	\$	\$	\$							
Terminal D/E - Parking Garage	\$	\$	\$							
AH AIRPORT ADMIN/SUPPORT BUILDINGS										
Skyway Maintenance Facility	\$	\$	\$							
HAS Administration Complex - 16930 JFK Blvd	\$	\$	\$							
ARFF Station 54 - 19006 Aldine Westfield	\$	\$	\$							
ARFF Station 92 - 4300 Will Clayton	\$	\$	\$							
ARFF Station 99 - 18580 Chanute Rd	\$	\$	\$							
HAS GSF (General Services Facility) - 4520 Will Clayton	\$	\$	\$							
HAS Airport Operations Building/Complex - 4775 Will Clayton	\$	\$	\$							
Airport Services Complex - 4500 Will Clayton	\$	\$	\$							
Supply Chain Management Complex - 18600 Lee Rd	\$	\$	\$							
Infrastructure Division Office (IDO) - 111 Standifier St.	\$	\$	\$							
Skyway Power Station (PDS 1, PDS 2 & PDS 3)	\$	\$	\$							
South Vault	\$	\$	\$							
North Vault	\$	\$	\$							
West Vault	\$	\$	\$							
AH REMOTE BUILDINGS	Φ.	•								
K-9 Bldg. 2452 Rankin Rd	\$	\$	\$							
Inbound JFK/South Aircraft Bridge	\$	\$	\$							
Ground Transportation Center Complex - 6135 Will Clayton Pkwy	\$	\$	\$							
Fleet Maintenance Facility - 18201 Viscount Rd, Bldg. G, #G300	\$	\$	\$							
Guard Booths located at AOA Gates (9 total) & Loading Docks - (2 total)	\$	\$	\$							
Fumigation Bldg 19151 Lee Rd.	\$	\$	\$							
One Stop Cargo Bldg 19581 Lee Rd.	\$	\$	\$							
HAS Cargo Building 18500-A Lee Road	\$	\$	\$							
Eco Park 2 IDF Room - 5021 will Clayton Pkwy	\$	\$	\$							
Electrical Vaults on AOA - 3 Total (North, South, & West)	ı u·	\$	\$							

HOU TERMINAL/PUBLIC FACILITIES			
	\$	\$	\$
HOU Terminal Building	\$	\$	\$
HOU International Terminal Building	\$	\$	\$
HOU Blue Garage	\$	\$	\$
HOU Red Garage	Ф	Ф	Ф
HOU AIRPORT ADMIN/SUPPORT BUILDINGS			
Admin Building - 8800 Paul B. Koonce St.	\$	\$	\$
Fleet Facility, 8913 Paul B. Koonce St.	\$	\$	\$
Outbound Baggage Building	\$	\$	\$
ARFF Station 81	\$	\$	\$
	\$	\$	\$
Price Compressor Facility	\$	\$	\$
Electrical Vaults - 2 Total (North & South)	\$	\$	\$
South Electrical Vault	Φ	Φ	Φ
HOU REMOTE BUILDINGS			
Taxi Staging Lot	\$	\$	\$
raxi Otaying Lot	Ψ	Ψ	Ψ
YEAR 4 SUBTOTAL - HOU	s -	\$ -	\$ -
I ZAR I GOSTOTAL TIGO			
EFD AIRPORT ADMIN/SUPPORT BUILDINGS			
Admin Building - 11502 Aerospace Ave, Bldg. 510	\$	\$	\$
Airfield and Grounds Building - 5011 Farley	\$	\$	\$
Houston Aerospace Support Center - 13150 Space Center Blvd	\$	\$	\$
HPD Facility - 11602 Kirk Ave	\$	\$	\$
THE Production Troop Talk Ave	Ι Ψ	Ι Ψ	Ψ
EFD REMOTE BUILDINGS			
New Tower - 11501 Brantley Ave	\$	\$	\$
Lighting Vaults - 11301 Blume Ave, Bldg. 778	\$	\$	\$
Generators North & South - Airside	\$	\$	\$
T- Hangers (6 total/90 units)	\$	\$	\$
, risingers (e common many)	,	,	7
YEAR 4 SUBTOTAL - EFD	\$ -	\$ -	\$ -
YEAR 4 GRAND TOTAL - IAH, HOU, & EFD	\$ -	\$ -	\$ -
YEAR 4 - UNIT PRICING		Price Per Square	
IAH Unit Pricing	\$/SF	\$/SF	\$/SF
Inclusion/Exclusion Rate Per Square Footage	\$	\$	\$
		Duite Book	F4
HOULD A B 151		Price Per Square	
HOU Unit Pricing	\$/SF	\$/SF	\$/SF
Inclusion/Exclusion Rate Per Square Footage	\$	\$	\$
	11-4	Dring Dor Sauces	Foot
EED Unit Briging		Price Per Square	
EFD Unit Pricing Inclusion/Exclusion Rate Per Square Footage	\$/SF	\$/SF	\$/SF
inclusion/Exclusion rate her square rootage	Ψ	Ψ	Ψ

YEAR 5 - LEVELS OF SERVICE

- 1. Reference Scope of Work Statement, Attachment "C" Equipment Lists & Attachment "D" Buildings
- 2. Contractor level of service bid pricing will be effective for duration of contract and be defined as "Unit Pricing" if new Terminal/Public Facilities, Admin/Support Buildings and Remote Buildings are added or subtracted from the contract.

ARPORT/BUILDING/LOCATION	ANNUAL LUMP SUM COST									
YEAR 5	LEVEL I PERPETUAL Best	LEVEL II PREDICTIVE Industry	LEVEL III REACTIVE Routine							
	Management Practice	Standard	Service							
AH TERMINAL/PUBLIC FACILITIES										
Terminal A	\$	\$	\$							
Terminal B	\$	\$	\$							
Terminal C	\$	\$	\$							
Terminal D	\$	\$	\$							
Terminal E Ticket Counter and Checkpoint	\$	\$	\$							
Federal Inspection Services (FIS)	\$	\$	\$							
Terminal A/B Parking Garage	\$	\$	\$							
Terminal C - West Parking Garage	\$	\$	\$							
Terminal C - East Parking Garage	\$	\$	\$							
Terminal D/E - Parking Garage	\$	\$	\$							
AH AIRPORT ADMIN/SUPPORT BUILDINGS										
Skyway Maintenance Facility	\$	\$	\$							
HAS Administration Complex - 16930 JFK Blvd	\$	\$	\$							
ARFF Station 54 - 19006 Aldine Westfield	\$	\$	\$							
ARFF Station 92 - 4300 Will Clayton	\$	\$	\$							
ARFF Station 99 - 18580 Chanute Rd	\$	\$	\$							
HAS GSF (General Services Facility) - 4520 Will Clayton	\$	\$	\$							
HAS Airport Operations Building/Complex - 4775 Will Clayton	\$	\$	\$							
Airport Services Complex - 4500 Will Clayton	\$	\$	\$							
Supply Chain Management Complex - 18600 Lee Rd	\$	\$	\$							
Infrastructure Division Office (IDO) - 111 Standifier St.	\$	\$	\$							
Skyway Power Station (PDS 1, PDS 2 & PDS 3)	\$	\$	\$							
South Vault	\$	\$	\$							
North Vault	\$	\$	\$							
West Vault	\$	\$	\$							
AH REMOTE BUILDINGS										
K-9 Bldg. 2452 Rankin Rd	\$	\$	\$							
Inbound JFK/South Aircraft Bridge	\$	\$	\$							
Ground Transportation Center Complex - 6135 Will Clayton Pkwy	\$	\$	\$							
Fleet Maintenance Facility - 18201 Viscount Rd, Bldg. G, #G300	\$	\$	\$							
Guard Booths located at AOA Gates (9 total) & Loading Docks - (2 total)	\$	\$	\$							
Fumigation Bldg 19151 Lee Rd.	\$	\$	\$							
One Stop Cargo Bldg 19581 Lee Rd.	\$	\$	\$							
HAS Cargo Building 18500-A Lee Road	\$	\$	\$							
Eco Park 2 IDF Room - 5021 will Clayton Pkwy	\$	\$	\$							
Electrical Vaults on AOA - 3 Total (North, South, & West)	\$	\$	\$							
	_		Page 79 of							
YEAR 5 SUBTOTAL - IAH	\$ -	\$ -	\$ -							

HOU TERMINAL/PUBLIC FACILITIES					
HOU Terminal Building	\$	\$		\$	
HOU International Terminal Building	\$	\$		\$	
HOU Blue Garage	\$	\$		\$	
HOU Red Garage	\$	\$		\$	
1100 Neu Garage	Ι Ψ	ΙΨ.		ΙΨ	
HOU AIRPORT ADMIN/SUPPORT BUILDINGS					
Admin Building - 8800 Paul B. Koonce St.	\$	\$		\$	
Fleet Facility, 8913 Paul B. Koonce St.	\$	\$		\$	
Outbound Baggage Building	\$	\$		\$	
ARFF Station 81	\$	\$		\$	
Price Compressor Facility	\$	\$		\$	
Electrical Vaults - 2 Total (North & South)	\$	\$		\$	
South Electrical Vault	\$	\$		\$	
HOU REMOTE BUILDINGS					
Taxi Staging Lot	\$	\$		\$	
VEAR COURTOIN HOLL					
YEAR 5 SUBTOTAL - HOU	\$	- \$	<u> </u>	\$	-
EFD AIRPORT ADMIN/SUPPORT BUILDINGS					
Admin Building - 11502 Aerospace Ave, Bldg. 510	\$	\$		\$	
Airfield and Grounds Building - 5011 Farley	\$	\$		\$	
Houston Aerospace Support Center - 13150 Space Center Blvd	\$	\$		\$	
HPD Facility - 11602 Kirk Ave	\$	\$		\$	
EFD REMOTE BUILDINGS					
New Tower - 11501 Brantley Ave	\$	\$		\$	
Lighting Vaults - 11301 Blume Ave, Bldg. 778	\$	\$		\$	
Generators North & South - Airside	\$	\$		\$	
T- Hangers (6 total/90 units)	\$	\$		\$	
YEAR 5 SUBTOTAL - EFD	\$	- \$	-	\$	-
YEAR 5 GRAND TOTAL - IAH, HOU, & EFD	\$	- \$	_	\$	-
, ,					
YEAR 5 - UNIT PRICING			ce Per Squ	are Foot	
IAH Unit Pricing	\$/S		\$/SF		\$/SF
Inclusion/Exclusion Rate Per Square Footage	\$	\$		\$	
		Unit Pri	ce Per Squ	are Foot	
HOU Unit Pricing	\$/S		\$/SF		\$/SF
Inclusion/Exclusion Rate Per Square Footage	\$	\$	<i>y.</i> •.	\$	T
-					
		Unit Pri	ce Per Squ	are Foot	
EFD Unit Pricing	\$/S		\$/SF		\$/SF
Inclusion/Exclusion Rate Per Square Footage	\$	\$		\$	

ATTACHMENT B FEE SCHEDULE – BASIC SERVICES

IAH	LEVEL I P	ERPETUAL	LEVEL II PI	REDICITIVE	LEVEL III I	REACTIVE
BASIC SERVICES	(Best Manage	ement Practice)	(Industry	Standard)	(Rou	itine)
Year of Service	Monthly	Annually	Monthly	Annually	Monthly	Annually
Year 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Year 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Year 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Year 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Year 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total	\$ -	Total	\$ -	Total	\$ -
HOU	LEVEL I P	ERPETUAL	LEVEL II PI	REDICITIVE	LEVEL III I	REACTIVE
BASIC SERVICES	(Best Manage	ement Practice)	(Industry	Standard)	(Rou	itine)
Year of Service	Monthly	Annually	Monthly	Annually	Monthly	Annually
Year 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Year 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Year 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Year 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Year 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total	-	Total	\$ -	Total	\$ -
EFD	LEVEL I P	 ERPETUAL	LEVEL II PI	REDICITIVE	LEVEL III I	REACTIVE
BASIC SERVICES	(Best Manage	ment Practice)	(Industry	Standard)	(Rou	tine)
Year of Service	Monthly	Annually	Monthly	Annually	Monthly	Annually
Year 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Year 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Year 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Year 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Year 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total	\$ -	Total	-	Total	\$ -
	LEVEL I P	ERPETUAL	LEVEL II PI	REDICITIVE	LEVEL III I	REACTIVE
	Grand Total \$ -			\$ -	Grand Total	\$ -

ATTACHMENT B FEE SCHEDULE – IAH OSR

IAH HVAC LEVEL I PERPETUAL (Best Management Practice)	Contract Hours	Cos	ear 1 st Per lour	Year 1	Costs	Yea Cost Ho		Year 2 Costs	Cos	ear 3 st Per lour	Year 3	Costs	Yea Cost Ho	Per	Year 4 Costs	Co	ear 5 ost Per Hour	Year 5	Costs	То	tal Contract Costs
HVAC Maintenance Mechanic																					
Normal Work Hours	330	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
After Normal Work Hours	160	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
DDC Maintenance Mechanic																					
Normal Work Hours	320	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
After Normal Work Hours	60	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
DX Maintenance Mechanic																					
Normal Work Hours	90	\$	_	\$	-	\$	_	\$ -	\$	_	\$	-	\$	_	\$ -	\$	_	\$	-	\$	_
After Normal Work Hours	40	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
Cost Total Hours	1,000			\$	-			\$ -			\$	-			\$ -			\$	-	\$	_
Cost Materials				\$ 150,0	000 00			\$ 150,000.00			\$ 150,0	200 00			\$ 150,000.00			\$ 150,0	200 00		
Proposed % Mark-Up				\$ 150,0	0%			5 150,000.00			\$ 150,0	0%			\$ 150,000.00 09			\$ 150,0	0%		
Costs Materials + Mark-Up				\$ 150.0				\$ 150,000.00			\$ 150.0				\$ 150,000.00			\$ 150.0		\$	750,000.00
				,,				· · · · · · · · · · · · · · · · · · ·			,				,			,,		Ť	,
Fotal Costs (Hours & Materials)				\$ 150,	00.00			\$ 150,000.00			\$ 150,0	00.00			\$ 150,000.00	_		\$ 150,	00.00	\$	750,000.00
IAH HVAC LEVEL II PREDICTIVE (Industry Standard)	Contract Hours	Cos	ear 1 st Per lour	Year 1	Costs	Yea Cost		Year 2 Costs	Cos	ear 3 st Per lour	Year 3	Costs	Yea Cost Ho	Per	Year 4 Costs	Co	ear 5 ost Per Hour	Year 5	Costs	То	tal Contract Costs
HVAC Maintenance Mechanic																					
Normal Work Hours	380	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
After Normal Work Hours	184	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
DDC Maintenance Mechanic																					
Normal Work Hours	368	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
After Normal Work Hours	68	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
OX Maintenance Mechanic																					
Normal Work Hours	104	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
After Normal Work Hours	46	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
Cost Total Hours	1,150			\$	-			\$ -			\$	-			\$ -			\$	-	\$	-
				\$ 150.0	00.00			\$ 150,000.00			\$ 150,0	00.00			\$ 150,000.00			\$ 150,0	00.00	\$	750,000.00
Cost Materials																					
				,	0%			0%				0%			09	o o			0%		
Cost Materials Proposed % Mark-Up Costs Materials + Mark-Up				\$ 150,0				0% \$ 150,000.00			\$ 150,0				\$ 150,000.00			\$ 150,0		\$	750,000.00

IAH HVAC LEVEL III REACTIVE (Routine)	Contract Hours	Co	ear 1 st Per lour	Year	1 Costs	Co	ear 2 st Per lour	Year	2 Costs	Co	ear 3 st Per lour	Year	3 Costs	Cost	Year 4 Cost Per Hour		Year 4 Costs		ar 5 st Per our	Year !	5 Costs	Tot	al Contract Costs
HVAC Maintenance Mechanic																							
Normal Work Hours	403	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	195	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
DDC Maintenance Mechanic																							
Normal Work Hours	390	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	73	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
DX Maintenance Mechanic																							
Normal Work Hours	110	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	49	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Cost Total Hours	1,220			\$	-			\$	-			\$	-			\$	-			\$	-	\$	-
Cost Materials				\$ 150	0,000.00			\$ 15	0,000.00			\$ 150	0,000.00			\$ 150.	00.00			\$ 150	,000.00	\$	750,000.00
Proposed % Mark-Up					0%				0%				0%				0%				0%	•	,
Costs Materials + Mark-Up				\$ 150	0,000.00			\$ 15	0,000.00			\$ 150	0,000.00			\$ 150	000.00			\$ 150	,000.00	\$	750,000.00
Total Costs (Hours & Materials)				\$ 150	0,000.00			\$ 15	0,000.00			\$ 150	0,000.00			\$ 150.	000.00			\$ 150	00.00	\$	750,000.00

ATTACHMENT B FEE SCHEDULE – HOU OSR

HOU HVAC LEVEL I PERPETUAL (Best Management Practice)	Contract Hours	Year 1 Cost Pe Hour	er	Year 1 Costs	Year 2 Cost Per Hour	Y	ear 2 Costs	Year 3 Cost Per Hour	Year 3 Costs	Year 4 Cost Per Hour	Y	ear 4 Costs	Co	ear 5 ost Per Hour	Y	ear 5 Costs	To	tal Contract Costs
HVAC Maintenance Mechanic																		
Normal Work Hours	115		\$		\$ -	\$	-	\$ -	\$ -	\$ -	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	30	\$ -	\$	5 -	\$ -	\$	-	\$ -	\$ -	\$ -	\$	-	\$	-	\$	-	\$	-
DDC Maintenance Mechanic																		
Normal Work Hours	46	\$ -	\$	· -	\$ -	\$	-	\$ -	\$ -	\$ -	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	28	\$ -	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$	-	\$	-	\$	-	\$	-
DX Maintenance Mechanic																		
Normal Work Hours	23	\$ -	\$		\$ -	\$	_	\$ -	\$ -	\$ -	\$		\$	_	\$	-	\$	-
After Normal Work Hours		\$ -	\$		\$ -	\$	-	\$ -	\$ -	\$ -	\$	-	\$	_	\$	-	\$	-
			Ţ		,	Ť		*	·	,			Ĺ		Ċ			
Cost Total Hours	251		\$	S -		\$	-		\$ -		\$	-			\$	-	\$	-
Cost Materials			\$	37,120.00		\$	37,120.00		\$ 37,120.00		\$	37,120.00			\$	37,120.00	\$	185,600.00
Proposed % Mark-Up				0%			0%		0%			0%				0%		
Costs Materials + Mark-Up			\$	37,120.00		\$	37,120.00		\$ 37,120.00		\$	37,120.00			\$	37,120.00	\$	185,600.00
Total Costs (Hours & Materials)			\$	37,120.00		\$	37,120.00		\$ 37,120.00		\$	37,120.00			\$	37,120.00	\$	185,600.00
HOU HVAC LEVEL II PREDICTIVE (Industry Standard)	Contract Hours	Year 1 Cost Pe Hour	er	Year 1 Costs	Year 2 Cost Per Hour		ear 2 Costs	Year 3 Cost Per Hour	Year 3 Costs	Year 4 Cost Per Hour	Y	ear 4 Costs	Co	ear 5 ost Per Hour	Y	ear 5 Costs	Тс	tal Contract Costs
HVAC Maintenance Mechanic																		
Normal Work Hours	120	\$ -	\$		\$ -	\$	-	\$ -	\$ -	\$ -	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	31	\$ -	\$	· -	\$ -	\$	-	\$ -	\$ -	\$ -	\$	-	\$	-	\$	-	\$	-
DDC Maintenance Mechanic			_		_	_				Φ.	Φ.	_	\$	-	\$	-	\$	-
Normal Work Hours	48	\$ -	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$	_				_	\$	-
	48 29	. *	\$		\$ - \$ -	\$	-	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$	-	\$	-	\$	<u>-</u>		
Normal Work Hours After Normal Work Hours		. *												-	\$	-		
		\$ -		-						\$ -				-	\$		\$	-
Normal Work Hours After Normal Work Hours DX Maintenance Mechanic	29	\$ - \$ -	\$	S -	\$ -	\$	-	\$ -	\$ -	\$ -	\$	-	\$				\$	
Normal Work Hours After Normal Work Hours DX Maintenance Mechanic Normal Work Hours	29	\$ - \$ - \$ -	\$) -) -) -	\$ -	\$	-	\$ - \$ -	\$ -	\$ - \$ -	\$	-	\$	-	\$	-		
Normal Work Hours After Normal Work Hours OX Maintenance Mechanic Normal Work Hours After Normal Work Hours Cost Total Hours	29 24 10	\$ - \$ - \$ -	\$ \$ \$	S - S - S -	\$ -	\$ \$ \$		\$ - \$ -	\$ - \$ - \$ -	\$ - \$ -	\$ \$		\$	-	\$	-	\$	-
Normal Work Hours After Normal Work Hours OX Maintenance Mechanic Normal Work Hours After Normal Work Hours Cost Total Hours Cost Materials	29 24 10	\$ - \$ - \$ -	\$ \$ \$	6 - 6 - 6 - 6 37,120.00	\$ - \$ - \$ -	\$ \$ \$	-	\$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ \$	-	\$	-	\$ \$	-	\$	-
Normal Work Hours After Normal Work Hours OX Maintenance Mechanic Normal Work Hours After Normal Work Hours	29 24 10	\$ - \$ - \$ -	\$ \$ \$	6 - 6 - 6 - 6 37,120.00 0%	\$ - \$ - \$ -	\$ \$ \$	- - - 37,120.00	\$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	\$ \$ \$ \$	- - - 37,120.00	\$	-	\$ \$	- 37,120.00	\$	-

HOU HVAC LEVEL III REACTIVE	Contract	C	rear 1 ost Per			Co	ear 2 ost Per			Co	ear 3 est Per			C	ear 4			Co	ear 5 est Per			To	otal Contract
(Routine)	Hours		Hour	Y	ear 1 Costs	I	Hour	Y	ear 2 Costs	I	Hour	Ye	ear 3 Costs		Hour	Y	ear 4 Costs	I	Hour	Y	ear 5 Costs		Costs
HVAC Maintenance Mechanic																							
Normal Work Hours	130	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	34	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
DDC Maintenance Mechanic																							
Normal Work Hours	52	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	32	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
DX Maintenance Mechanic																							
Normal Work Hours	26	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	10	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Cost Total Hours	284			\$	-			\$	-			\$	-			\$	-			\$	-	\$	-
Cost Materials				\$	37,120.00			\$	37,120.00			\$	37,120.00			\$	37,120.00			\$	37,120.00	\$	185,600.00
Proposed % Mark-Up					0%				0%				0%				0%				0%		-
Costs Materials + Mark-Up				\$	37,120.00			\$	37,120.00			\$	37,120.00			\$	37,120.00			\$	37,120.00	\$	185,600.00
Total Costs (Hours & Materials)				\$	37,120.00			\$	37,120.00			\$	37,120.00			\$	37,120.00			\$	37,120.00	\$	185,600.00

ATTACHMENT B FEE SCHEDULE – EFD OSR

OTHER WORK SERVICE EFD HVAC LEVEL I		v	4			V-	ear 2			V-	ear 3			V	ar 4			v.	ear 5				
PERPETUAL	Contract		ear 1 st Per	Ye	ar 1		ear 2 st Per	Yea	ar 2		ear 3 st Per	Yea	r 3	Cos		Ye	ar 4		ear 5 st Per	Y	ear 5	Tot	al Contract
(Best Management Practice)	Hours	H	lour	Co	sts	Н	our	Cos	sts	Н	our	Cos	ts	Н	our	Co	sts	Н	lour	С	osts		Costs
HVAC Maintenance Mechanic																							
Normal Work Hours	125		-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ \$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	15	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
DDC Maintenance Mechanic																							
Normal Work Hours	50	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	10	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
DX Maintenance Mechanic																							
Normal Work Hours	20	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Cost Total Hours	225			\$	-			\$	-			\$	-			\$	-			\$	-	\$	-
Cost Materials				\$ 20.4	00.00			\$ 20.0	00.00			\$ 20.00	00.00			\$ 20	00.00			\$ 20	000 00	•	100,000.00
Proposed % Mark-Up				φ 20,	0%			φ 20,0	00.00			Ψ 20,00	0%			φ 20,	000.00			φ 20	,000.00 0%	-	100,000.00
Costs Materials + Mark-Up				\$ 20,	00.00			\$ 20,0				\$ 20,00				\$ 20,	000.00			\$ 20			100,000.00
Total Costs (Hours & Materials)				\$ 20.0	000.00			\$ 20.0	00.00			\$ 20,00	20.00			¢ 20	00.00			¢ 20	000 00	•	100,000.00
Total Costs (Hours & Materials)				Ψ 20,	000.00			Ψ 20,0	00.00			Ψ 20,00	0.00			\$ 20 ,	000.00			\$ ZU	,000.00	Ψ	100,000.00
EFD HVAC LEVEL II		· ·	4				0							V-	4			V					
PREDICTIVE	Contract		ear 1 st Per	Ye	ar 1		ear 2 st Per	Yea	ar 2		ear 3 st Per	Yea	r 3	Cos	ar 4 t Per	Υe	ar 4		ear 5 st Per	Υ	ear 5	Tot	al Contract
(Industry Standard)	Hours	Н	lour	Co	sts	Н	our	Cos	sts	Н	our	Cos	ts	Н	our	Co	sts	Н	lour	С	osts		Costs
HVAC Maintenance Mechanic																							
Normal Work Hours	125		-	\$	-	\$	-	\$	-	\$ \$	-	\$	-	\$ \$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	15	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
DDC Maintenance Mechanic			_	\$	-	\$	-	\$	-	\$	-	\$	-	\$ \$	-	\$	-	\$	-	\$	-	\$	-
DDC Maintenance Mechanic Normal Work Hours	50				_	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
	50 10		-	\$	-	Ť																	
Normal Work Hours After Normal Work Hours				·	-																		
Normal Work Hours After Normal Work Hours	10	\$		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Normal Work Hours After Normal Work Hours OX Maintenance Mechanic	10	\$	-	·		\$	- -	\$	-	\$ \$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Normal Work Hours After Normal Work Hours DX Maintenance Mechanic Normal Work Hours After Normal Work Hours	10	\$ \$	-	\$	-									\$					-				
Normal Work Hours After Normal Work Hours OX Maintenance Mechanic Normal Work Hours After Normal Work Hours Cost Total Hours	20 5	\$ \$	-	\$ \$	-			\$	-			\$	-	\$		\$	-		-	\$	-	\$	-
Normal Work Hours After Normal Work Hours DX Maintenance Mechanic Normal Work Hours After Normal Work Hours Cost Total Hours Cost Materials	20 5	\$ \$	-	\$ \$				\$	-			\$	-	\$		\$	-	\$	-	\$ \$ 20	- ,000.00 0%	\$ \$ \$	- 100,000.00
After Normal Work Hours DX Maintenance Mechanic Normal Work Hours	20 5	\$ \$	-	\$ \$	- - - 000.00			\$	- - 00.00 0%			\$	- - 00.00 0%	\$		\$ \$ 20,	-	\$	-	\$ \$ 20	- ,000.00 0%	\$ \$ \$	-

EFD HVAC LEVEL III REACTIVE (Routine)	Contract Hours	Со	ear 1 st Per lour		ear 1	Co	ear 2 st Per lour		ear 2	Cos	ar 3 st Per our		ear 3	Cos	ar 4 st Per our		ear 4	Cos	ear 5 st Per our		ear 5 osts	То	tal Contract
HVAC Maintenance Mechanic																							
Normal Work Hours	125	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	15	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
DDC Maintenance Mechanic																							
Normal Work Hours	50	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	10	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
DX Maintenance Mechanic																							
Normal Work Hours	20	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
After Normal Work Hours	5	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Cost Total Hours	225			\$	-			\$	-			\$	-			\$	-			\$	-	\$	-
Cost Materials				\$ 20	0,000.00			\$ 20	,000.00			\$ 20	0.000.00			\$ 20	0,000.00			\$ 20	,000.00	\$	100,000.00
Proposed % Mark-Up				, _,	0%			,	0%				0%				0%			,	0%		,
Costs Materials + Mark-Up				\$ 20	0,000.00			\$ 20	,000.00			\$ 20	0,000.00			\$ 20	0,000.00			\$ 20	,000.00		100,000.00
Total Costs (Hours & Materials)				\$ 20	0,000.00			\$ 20	,000.00			\$ 20	,000.00			\$ 20	0,000.00			\$ 20	,000.00	\$	100,000.00

EXHIBIT I OFFER AND SUBMITTAL, REFERENCES, PROPOSED CONTRACTORS

PAGE INTENTIONALLY LEFT BLANK

EXHIBIT I OFFER AND SUBMITTAL

NOTE: PROPOSAL MUST BE SIGNED AND NOTARIZED BY AN AUTHORIZED REPRESENTATIVE(S) OF THE PROPOSER, WHICH MUST BE THE ACTUAL LEGAL ENTITY THAT WILL PERFORM THE CONTRACT IF AWARDED AND THE TOTAL FIXED PRICE CONTAINED THEREIN SHALL REMAIN FIRM FOR A PERIOD OF ONE-HUNDRED EIGHTY (180) DAYS.

"THE RESPONDENT WARRANTS THAT NO PERSON OR SELLING AGENCY HAS BEEN EMPLOYED OR RETAINED TO SOLICIT OR SECURE THIS CONTRACT UPON AN CONTRACT OR UNDERSTANDING FOR A COMMISSION, PERCENTAGE, BROKERAGE, OR CONTINGENT FEE, EXCEPTING BONA FIDE EMPLOYEES. FOR BREACH OR VIOLATION OF THIS WARRANTY, THE CITY SHALL HAVE THE RIGHT TO ANNUL THIS CONTRACT WITHOUT LIABILITY OR, AT ITS DISCRETION, TO DEDUCT FROM THE CONTRACT PRICES OR CONSIDERATION, OR OTHERWISE RECOVER THE FULL AMOUNT OF SUCH COMMISSION, PERCENTAGE, BROKERAGE OR CONTINGENT FEE."

Respectfully Submitted:	
(Print or Type Name of Contractor – Full Company Name)	
City of Houston Vendor No. (If already doing business with City):	
Federal Identification Number:	
By:(Signature of Authorized Officer or Agent)	
Printed Name:	
Title:	
Date:	
Address of Contractor:	
Street Address or P.O. Box	
City – State – Zip Code	
Telephone No. of Contractor: ()	
Signature, Name and title of Affiant:	
(Notary Public in and for)	
	County, Texas
My Commission Expires: day of	

EXHIBIT I REFERENCES LIST OF PREVIOUS CUSTOMERS

Name:	Phone No.:	
	Contract Completion Date:	
Contract Name/Title:		
System Description:		
Name:	Phone No.:	
	Contract Completion Date:	
	·	
	Contract Completion Date:	
Name:	Phone No.:	
Address:		
	Contract Completion Date:	
Contract Name/Title:		
Email:		

EXHIBIT I LIST OF SUBCONTRACTORS(S)

The following is a list of subcontractors we propose to engage on the following items of Work. Any item of Work which does not designate a Subcontractor will be done by the firm submitting the Proposal.

SEGREGATED PART OF WORK	SUBCONTRACTOR/SUPPLIER

EXHIBIT II ATTACHMENT "A" SCHEDULE OF MWBE PARTICIPATION

DATE OF REPORT:	
BID NO.:	 -
FORMAL BID TITLE:	

NAME OF MINORITY/WOMEN CONTRACTOR	OFFICE OF BUSINESS OPPORTUNITY CERTIFICATION NO.	STREET ADDRESS AND CITY, STATE, ZIP CODE	TELEPHONE NO.	SCOPE OF WORK	AGREED PRICE
		TOTAL			\$
		MWBE PARTICIPATION AN	MOUNT		\$%
		TOTAL BID AMOUNT			\$

IF YOU HAVE USED YOUR BEST EFFORTS TO CARRY OUT THE CITY'S MWSBE POLICY BY SEEKING SUBCONTRACTORS AND SUPPLY CONTRACTS WITH MINORITY AND WOMEN BUSINESS ENTERPRISES YET FAILED TO MEET THE STATED PERCENTAGE GOAL OF THIS BID DOCUMENT, LIST BELOW YOUR GOOD FAITH EFFORTS FOR COMPLIANCE (DEFINITION OF REQUIREMENTS CAN BE OBTAINED THROUGH THE OFFICE OF BUSINESS OPPORTUNITY AT (713) 837-9000).
THE UNDERSIGNED WILL ENTER INTO A FORMAL CONTRACT WITH THE MINORITY AND/OR WOMEN SUBCONTRACTORS AND SUPPLIERS LISTED IN THIS SCHEDULE CONDITIONED UPON AWARD OF A CONTRACT FROM THE CITY.
NOTE: ALL FIRMS LISTED ABOVE MUST BE CERTIFIED (OR ELIGIBLE FOR CERTIFICATION) BY THE OFFICE OF BUSINESS OPPORTUNITY. THIS SCHEDULE OF MWSBE PARTICIPATION SHOULD BE RETURNED, IN DUPLICATE, WITH THE BID FORM.
PROPOSER COMPANY NAME
SIGNATURE OF AUTHORIZED OFFICER OR AGENT OF PROPOSER
NAME (TYPE OR PRINT)
TITLE

EXHIBIT II ATTACHMENT "B" OFFICE OF BUSINESS OPPORTUNITY AND CONTRACT COMPLIANCE MWBE UTILIZATION REPORT

NOTICE OF INTENT

THIS CONTRACT IS SUBJECT TO MEDIATION AND CAN BE INITIATED BY THE COMPANIES SIGNED BELOW OR THE OFFICE OF BUSINESS OPPORTUNITY.

To:	City of Houston Administering Department		Date:		
Proje	ct Name and Number				
Bid A	mount:	M/\	N/BE Goal:		
	Prime Contractor		_ , agrees to enter a co	ntractual contract with	
with t	MWBE Subcontractors above-referenced contract	or	rovide the following goo	ds/services in connection	
for ar	n estimated amount of \$		_ or	% of the total contract value	÷.
	(M/W/BE Subcontractor)	is cur Oppo	rently certified with the ortunity to function in the	City of Houston's Office of Business capacity.	3
	Prime Subcontractor			Intend to V/BE Subcontractor	
			with the M/W/DBE Partic	ipation Section of the City of Housto	DI
Signe	ed (Prime Contractor)		Signed (M/W/BE Subo	contractor)	
Printe	ed Signature		Printed Signature		
Title		Date	Title	 Date	

EXHIBIT II ATTACHMENT "C" CERTIFIED MWBE SUBCONTRACTOR TERMS

CITY OF HOUSTON CERTIFIED MWBE SUBCONTRACTOR TERMS

Subcontractor shall ensure that all subcontractors with M/WBE subcontractors and suppliers are clearly labeled "THIS CONTRACT IS SUBJECT TO MEDIATION" and contain the following terms:

••	50% of the work under this subcontractor to any other subcontractor or supplier without the express written consent of the City of Houston's Office of Business Opportunity Director ("the Director").
2.	(M/WBE subcontractor) shall permit representatives of the City of Houston, at all reasonable times, to perform 1) audits of the books and records of the subcontractor, and 2) inspections of all places where work is to be undertaken in connection with this subcontractor. Subcontractor shall keep such books and records available for such purpose for at least four (4) years after the end of its performance under this subcontractor. Nothing in this provision shall affect the time for bringing a cause of action or the applicable statute of limitations.

(M/WRF subcontractor) shall not delegate or subcontractor more than

3. Within five (5) business days of execution of this subcontractor, Subcontractor (prime subcontractor) and Subcontractor shall designate in writing to the Director an agent for receiving any notice required or permitted to be given pursuant to Chapter 15 of the Houston City Code of Ordinances, along with the street and mailing address and phone number of such agent.

These provisions apply to goal-oriented contracts. A <u>goal-oriented</u> contract means any contract for the supply of goods or non-professional services in excess of <u>\$100,000.00</u> for which competitive proposals are required by law; not within the scope of the MBE/WBE/SBE program of the United States Environmental Protection Agency or the United States Department of Transportation; and which the City Chief Procurement Officer has determined to have significant MWBE subcontracting potential in fields which there are an adequate number of known MBEs, WBE's, and or SBE's (if applicable) to compete for City contracts.

The MWBE policy of the City of Houston will be discussed during the pre-proposal conference. For information, assistance, and/or to receive a copy of the City's Affirmative Action Policy and/or Ordinance, contact the Office of Business Opportunity Division at 832.393.0600, 611 Walker Street, 7th Floor, Houston, Texas 77002.

EXHIBIT II ATTACHMENT "D" OFFICE OF BUSINESS OPPORTUNITY AND CONTRACT COMPLIANCE MWBE UTILIZATION REPORT

Report Period:						
PROJECT NAME & NUME	BER:			AWARD DATE:		
PRIME SUBCONTRACTO	R:			CONTRACT NO).:	
ADDRESS:				CONTRACT AM	10UNT:	
LIAISON/PHONE NO.:				MWBE GOAL: _		
MWBE SUB/VENDOR NAME	DATE OF OBO CERTIFICATION	DATE OF SUBCONTRACT OR	SUBCONTRACT OR AMOUNT	% OF TOTAL CONTRACT	AMOUNT PAID TO DATE	% OF CONTRACT TO DATE
Use additional pages if need Provide support documentar MWBE's to reflect up/down	tion on all revenues pai	id to end of the report p		Office of Busine ATTN: Carlecia 611 Walker, 7 th F Houston, Texas	Wright 713-837-900 loor	00

EXHIBIT III FAIR CAMPAIGN ORDINANCE

The City of Houston Fair Campaign Ordinance makes it unlawful for a contractor to offer any contribution to a candidate for City elective office (including elected officers and officers-elect). All respondents to this invitation to bid must comply with Houston Code of Ordinances Chapter 18 as amended relating to the contribution and solicitation of funds for election campaigns. Provisions of this ordinance are provided in part in the paragraphs that follow. Complete copies may be obtained from the office of the City Secretary.

Candidates for city office may neither solicit nor receive contributions except during a period commencing 270 calendar days prior to an election date for which a person is a candidate for such office and ending 90 calendar days after the election date, including run-off elections if such candidate is on the ballot.

Further, it shall be unlawful either for any person who submits a Bid or Proposal to contribute or offer any contribution to a candidate or for any candidate to solicit or accept any contribution from such person for a period commencing at the time of posting of the City Council Meeting Agenda including an item for the award of the Contract and ending upon the 30th day after the award of the Contract by City Council.

For the purposes of this Ordinance, a **Contract** is defined as each Contract having a value in excess of \$30,000 that is let by the City for professional services, personal services, or other goods or services of any other nature whether the Contract is awarded on a negotiated basis, request for Proposal basis, competitive Proposal basis or formal sealed competitive Bids. The term **Contractor** includes proprietors of proprietorships, partners having an equity interest of 10% of more of partnerships, (including limited liability partnerships and companies), all officers and directors of corporations (including limited liability corporations), and all holders of 10% or more of the outstanding shares of corporations.

A STATEMENT DISCLOSING THE NAMES AND BUSINESS ADDRESSES EACH OF THOSE PERSONS WILL BE REQUIRED TO BE SUBMITTED WITH EACH BID OR PROPOSAL FOR A CITY CONTRACT. Completion of the attached form entitled "Contractor Submission List" will satisfy this requirement. Failure to provide this information may be just cause for rejection of your Bid or Proposal.

EXHIBIT III FORM "A": FAIR CAMPAIGN

CONTRACTOR SUBMISSION LIST CITY OF HOUSTON FAIR CAMPAIGN ORDINANCE

By submitting a bid or proposal to the City of Houston for a Contract in excess of \$50,000 or for which a request is presented to City Council for approval, all respondents agree to comply with Chapter 18 of the Code of Ordinances.

Pursuant to Section 18-36 of the Code of Ordinances, it is unlawful either for any contractor to contribute or offer any contribution to a candidate, or for any candidate to solicit or accept any contribution from a contractor for a period commencing at the time of posting of the City Council Meeting Agenda including an item for the award of the Contract and ending upon the 30th day after the award of the Contract by City Council, or a determination by City Council of the Mayor that the contract will not be awarded to a contractor.

The term "contractor" means any person who has received the award of a contract, has submitted a bid or proposal in any form for the award of a contract, or has been proposed to be awarded the contract in an item placed upon the City Council agenda, including any other person who seeks the award of the contract and is contesting, appealing, or protesting the award of the contract as proposed.

This list is submitted under the provisions of Section 18-36(b) of the City of Houston Code of Ordinances in connection with the attached Bid/Proposal of:

Firm or Company Name: _			
Firm or Company Address:			
The firm/company is organized as indic pages if needed to su		• •	n additional
[]	SOLE PROPRIET	ΓOR	
Name	Proprietor	Address	
0	A PARTNERSH	IIP	
LIST EACH PARTNER HAVING E	EQUITY INTEREST (IF NONE STATE "N		RTNERSHIP
Name	Partner	Address	
Name			
	Partner	Address	

LIST EACH MEMBER OR MANAGER (IF NO MEMBERS) HAVING EQUITY INTEREST OF

A LIMITED LIABILITY COMPANY

[]

10% OR MORE IN THE LIMITED LIABILITY COMPANY (IF NONE, STATE "NONE") Member/Manager Address Member/Manager Address Name Member/Manager Address [] **A CORPORATION** LIST ALL DIRECTORS OF THE CORPORATION (IF NONE STATE "NONE") Name Director Address Name Director Address Director LIST ALL OFFICERS OF THE CORPORATION (IF NONE STATE "NONE") Name Officer Address Name _____ Officer Address Name _____ Address LIST ALL INDIVIDUALS OWNING 10% OR MORE OF OUTSTANDING SHARES OF STOCK OF THE CORPORATION (IF NONE STATE "NONE") Name Owner Address Owner Address Name _____ Owner

Address

I certify that I am duly authorized to submit this list on behalf of the firm, that I am associated with the firm in the capacity noted below, and that I have knowledge of the accuracy of the information provided herein.

Signature	
Printed Name	
 Title	

Note: This list constitutes a government record as defined by § 37.01 of the Texas Penal Code.

12/15/2016

EXHIBIT IV: CONTRACTOR OWNERSHIP DISCLOSURE ORDINANCE

City Council requires knowledge of the identities of the owners of entities seeking to Contract with the City in order to review their indebtedness to the City prior to entering Contracts. Therefore, all respondents to this Invitation to Bid must comply with Houston Code of Ordinances Chapter 15, as amended (Sections 15-122 through 15-126) relating to the disclosure of owners of entities bidding on, proposing for or receiving City contracts. Provisions of this ordinance are provided in part in the paragraphs that follow. Complete copies may be obtained from the office of the City Secretary.

<u>Contracting entity</u> means a sole proprietorship, corporation, non-profit corporation, partnership, joint venture, limited liability company, or other entity that seeks to enter into a contract requiring approval by the Council but excluding governmental entities.

A <u>contracting entity</u> must submit at the time of its Bid or Proposal, an affidavit listing the full names and the business and residence addresses of all persons owning five percent or more of a contracting entity or, where a contracting entity is a non-profit corporation, the full names and the business and residence addresses of all officers of the non-profit corporation.

Completion of the "Affidavit of Ownership or Control," included herein, and submitted with the Official Bid or Proposal Form will satisfy this requirement. Failure to provide this information may be just cause for rejection of your Bid or Proposal.

EXHIBIT IV:AFFIDAVIT OF OWNERSHIP OR CONTROL

FILE/I.D. NO.: [WBS NO.] JLD DISCLOSE THAT FACT TO AVOID REJECTION OF THIS AFFIDAVIT. THE NAME DBA ASSUMED NAME.
NAME DBA ASSUMED NAME.
AVIT OF OWNERSHIP OR CONTROL
day personally appeared
DRATE/LEGAL NAME] ("Contracting Entity"), who being by me duly
has personal knowledge of the facts and matters herein stated.
the City in connection with
in an amount that exceeds \$50,000.
nnection with the proposal, submission or bid of Contracting Entity
s entity as noted below (check box as applicable).
NON-PROFIT ENTITY:
[] NON-PROFIT CORPORATION [] UNINCORPORATED ASSOCIATION)
- i

- **5.** The information shown below is true and correct for the Contracting Entity; and
- 6. All owners of 10% or more of the Contracting Entity and, where the Contracting Entity is a non-profit entity, the required information has been shown for each officer, *i.e.*, president, vice-president, secretary, treasurer, etc. [NOTE: IN ALL CASES, USE FULL NAMES, LOCAL BUSINESS AND RESIDENCE ADDRESSES AND TELEPHONE NUMBERS. DO NOT USE POST OFFICE

BOXES FOR ANY ADDRESS. INCLUSION OF E-MAIL ADDRESSES IS OPTIONAL, BUT RECOMMENDED. ATTACH ADDITIONAL SHEETS AS NEEDED.]

Contracting Entity

Name:_			
	Business Address [No./STREET]		
	[CITY/STATE/ZIP CODE]		
	Telephone Number	()	
	Email Address [OPTIONAL]		
	Residence Address [No./STREET]		
	[CITY/STATE/ZIP CODE]		
	Telephone Number	()	
	Email Address [OPTIONAL]		
10% O v Name:	wner(s) or More (IF NONE, STATE "NONE."	•	
	Business Address [No./STREET]		
	[CITY/STATE/ZIP CODE]		
	Telephone Number	()	
	Email Address [OPTIONAL]		
	Residence Address [No./STREET]		
	[CITY/STATE/ZIP CODE]		
	Telephone Number	()	
	Email Address [OPTIONAL]		

7. Optional Information

[NAME OF OWNER OR NON-PROFIT
ealing the accuracy and/or amount of taxes levied against
orized to submit the above information on behalf of the Contracting Entity, y in the capacity noted above and has personal knowledge of the accuracy information provided herein is true and correct to the best of Affiant's
Affiant
Alliant
me this day of, 20
Notary Public

NOTE:
This affidavit constitutes a **government record** as defined by Section 37.01 of the Texas Penal Code. Submission of a false government record is punishable as provided in Section 37.10 of the Texas Penal Code. Attach additional pages if needed to supply the required names and addresses.

EXHIBIT V ANTI-COLLUSION STATEMENT

Anti-Collusion Statement

The undersigned, as Proposer, certifies that the only person or parties interested in this Proposal as principals
are those named herein; that the Proposer has not, either directly or indirectly entered into any Contract,
participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection
with the award of this Contract.

Date	Proposer Signature

EXHIBIT VI PROPOSER'S STATEMENT OF RESIDENCY

The City may not award a contract for general construction, services, or purchases to a Nonresident Proposer unless Nonresident's Bid is lower than the lowest Bid submitted by a responsible Texas Resident Proposer by the same amount that a Texas Resident Proposer would be required to underbid the Nonresident Proposer to obtain a comparable contract in the state in which Nonresident's principle place of business is located.

1.	This certifies that the Proposer,	,	is a State
	of Texas Resident Proposer as d	efined in TEX. GOVT. CODE ANN. § 2252.001(4) (Verno	on 2016).
	Signature	Title	
a cc		poser whose principal place of business is in this State, an apany or majority owner has its principal place of busing pove, proceed to 2.	
2.	a.	is a resident of	and is a
Non	resident Proposer as defined in TEX	is a resident of GOVT. CODE ANN. § 2252.001(3) (Vernon 2016).	
	Signature	Title	
		whose principal place of business is not in this State, but r majority owner has its principal place of business in this State	
	b. The State of	[does/does not]	have a
	b. The State ofstate statute giving preference to	resident Proposers.	
	Signature	Title	
	e answer to 2.b is that your state does have by and proceed to 3.	ve a statute giving preference to resident Proposers, then you m	nust provide
3. A	copy of the State of	statute is attached.	
	Signature	Title	
		Date	
	**********	**********	
	Note to Specifier - Do not inclu	ide this form if the Project will receive federal funding	ı in

Note to Specifier - Do not include this form if the Project will receive federal funding in whole or in part. If used, include reference in Document 00210 - Supplementary Instructions to Proposers.

States that currently penalize out-of-state Proposers include, but may not be limited to, Colorado, Illinois, Iowa, Minnesota, Montana, North Dakota, Pennsylvania, and Wyoming. If Low Proposer is a resident of one of these states, consult the City of Houston Legal Department in adjusting the Bid Amount.

EXHIBIT VII CONFLICT OF INTEREST QUESTIONNAIRE

CONFLICT OF INTEREST QUESTIONNAIRE:

Chapter 176.006 of the Local Government Code ("the code") requires a Vendor/Contractor to file a Conflict of Interest Questionnaire (CIQ) with the City.

NOTE: Vendors/Contractors or Agents should **not** complete the CIQ if a conflict, as described below, **does not exist.** Only Vendors/Contractors or Agents that actually have a conflict, as described below, must file a CIQ.

Who must file a CIQ?

A Vendor/Contractor or Agent of a Vendor/Contractor does not have to file a CIQ unless they intend to enter or is considering entering into a contract with the City or:

- 1. has an employment or other business relationship with the Local Government Officer/Family Member; or
- 2. has given the Local Government Officer/Family Member one or more gifts with the aggregate value exceeding \$250.00.

When must the Vendor/Contractor or Agent file a CIQ?

The completed CIQ must be filed with the City Chief Procurement Officer not later than the 7th business day after the date the Vendor/Contractor or Agent:

- 1. begins discussions or negotiations to enter into a contract with the City;
- 2. submits an application to the City in response to a request for proposals or bids, correspondence, or any other writing related to a potential contract with the City;
- 3. becomes aware of an employment or other business relations with the Local Government Officer/Family Member;
- 4. becomes aware that he/she has given one or more gifts to the Local Government Officer/Family Member that exceeds \$250.00; or
- 5. an event that would make the CIQ incomplete or inaccurate.

What is a business relationship?

Under Chapter 176, business relationship means a connection between two or more parties based on the commercial activity of one of the parties. The term does not include:

- 1. a transaction that is subject to a rate or fee regulation by a governmental entity;
- 2. a transaction conducted at a price and subject to terms available to the public; or
- 3. a purchase or lease of goods or services from a person who is chartered by a state or federal agency and is subject to regular examination and reporting to that agency.

The Conflict of Interest Questionnaire is available for downloading from the Texas Ethics Commission's website at http://www.ethics.state.tx.us/forms/CIQ.pdf .

Т

he Original Conflict of Interest Questionnaire shall be filed with the Administration and Regulatory Affairs Department's Record Administration (Lourdes Coss, City Chief Procurement Officer, 901 Bagby, Concourse Level, Houston, Texas 77002). Vendors and Contractors required to file shall include a copy of the form as part of the BID/Proposal package. Any questions about filling out this form should be directed to your attorney.

EXHIBIT VII CONFLICT OF INTEREST QUESTIONNAIRE

This questionnaire reflects changes made to the law by H.B. 1491, 80th Leg., Regular Session. This questionnaire is being filed in accordance with Chapter 176, Local Government Code by a person who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the person meets requirements under Section 176.006(a). By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code. A person commits an offense if the person knowingly violates Section 176.006, Local	OFFICE USE ONLY Date Received
by a person who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the person meets requirements under Section 176.006(a). By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.	Date Received
entity not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.	
A person commits an offense if the person knowingly violates Section 176.006, Local	
Government Code. An offense under this section is a Class C misdemeanor.	1
Name of person who has a business relationship with local governmental entity.	
Check this box if you are filing an update to a previously filed questionnaire.	
(The law requires that you file an updated completed questionnaire with the ap later than the 7th business day after the date the originally filed questionnaire become	
Name of local government officer with whom filer has employment or business relationship	p.
Name of Officer	
This section (item 3 including subparts A, B, C & D) must be completed for each office employment or other business relationship as defined by Section 176.001(1-a), Local Govern pages to this Form CIQ as necessary. A. Is the local government officer named in this section receiving or likely to receive taxable income, from the filer of the questionnaire?	ment Code. Attach additional
Yes No	
B. Is the filer of the questionnaire receiving or likely to receive taxable income, other than invedirection of the local government officer named in this section AND the taxable income is governmental entity?	
Yes No	
C. Is the filer of this questionnaire employed by a corporation or other business entity w government officer serves as an officer or director, or holds an ownership of 10 percent or m	HP 이 그 얼마님이 해보다 가입하다면서 얼마를 다시면서 이 사람이 아무나 있다면서 하네 다른 모시는
Yes No	
D. Describe each employment or business relationship with the local government officer nat	med in this section.
4	
Signature of person doing business with the governmental entity	Oate