



## DEPARTMENT OF PROCUREMENT SERVICES NON-COMPETITIVE REVIEW BOARD (NCRB) APPLICATION

Complete this cover form and the **Non-Competitive Procurement Application Worksheet** in detail. Refer to the page entitled **"Instructions for Non-Competitive Procurement Application"** for completing this application in accordance with its policy regarding NCRB. Complete "other" subject area if additional information is needed. Subject areas must be fully completed and responses merely referencing attachments will not be accepted and will be immediately rejected.

<b>Department</b> Aviation	<b>Originator Name</b> George Lyman	<b>Telephone</b> (773) 894-5291	<b>Date</b> 02/07/14	
<b>Contract Liaison</b> David Bowman	<b>Email Contract Liaison</b> david.bowman@cityofchicago.org	<b>Telephone</b> (773) 686-7089		

<b>List Name of NCRB Attendees/Department</b>
George Lyman - Aviation Tom Stastny - Aviation David Bowman - Aviation

**Request NCRB review be conducted for the product(s) and/or service(s) described herein.**  
**Company:** Dynatest Consulting, Inc.  
 38284 Abruzzi Dr. Westland, MI 48185

<b>Contact Person:</b> Frank B. Holt	<b>Phone:</b> (734) 729-0400	<b>Email:</b> fholt@dynatest.com
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**Project Description:** Inspection, Calibration, Repair, Parts and Training for Dynatest Runway Friction Testing Equipment

<p><b>This is a request for:</b></p> <p><input checked="" type="checkbox"/> <b>New Contract</b></p> <p><u>Contract Type</u></p> <p><input checked="" type="checkbox"/> <b>Blanket Agreement</b> Term: <u>60</u> (# of mo)</p> <p><input type="checkbox"/> <b>Standard Agreement</b></p>	<p><input type="checkbox"/> <b>Amendment / Modification</b></p> <p><u>Type of Modification</u></p> <p><input type="checkbox"/> <b>Time Extension</b>      <input type="checkbox"/> <b>Vendor Limit Increase</b>      <input type="checkbox"/> <b>Scope Change</b></p> <p>Contract Number: _____</p> <p>Specification Number: _____</p> <p>Modification Number: _____</p>
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<p><b>Department Request Approval</b></p> <p style="text-align: center;"></p> <p>DEPARTMENT HEAD OR DESIGNEE</p> <p style="text-align: center;"></p> <p>PRINT NAME</p>	<p><b>Recommended Approval</b></p> <p style="text-align: right;">APR 09 2014</p> <p style="text-align: center;"></p> <p>BOARD CHAIRPERSON</p> <p style="text-align: center;">Rich Butler</p> <p>PRINT NAME</p>
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(FOR NCRB USE ONLY)

Recommend Approval/Date: 4-7-14

Return to Department/Date: \_\_\_\_\_

Rejected/Date: \_\_\_\_\_

**Approved**       **Rejected**

CHIEF PROCUREMENT OFFICER

APR 09 2014

DATE



**DEPARTMENT OF PROCUREMENT SERVICES  
NON-COMPETITIVE REVIEW BOARD (NCRB) APPLICATION  
JUSTIFICATION FOR NON-COMPETITIVE PROCUREMENT WORKSHEET**

All applicable information on this worksheet must be addressed using each question found on the "Instructions for Non-Competitive Procurement Application" in this application.

**Justification for Non-Competitive Procurement Worksheet**

**PROCUREMENT HISTORY**

1. Describe the requirement and how it evolved from initial planning to its present status.

On March 18, 1997, the Federal Aviation Administration (FAA) released Advisory Circular (AC) No. 150/5320-12C concerning the Measurement, Construction, and Maintenance of Skid-Resistant Airport Pavement Surfaces. In the AC, the FAA stated that braking performance on runway surfaces, particularly when wet, had become "a significant safety consideration." As such, the AC provided guidelines for designing, constructing, and maintaining skid-resistant airport pavement surfaces and for conducting evaluations and surveys of runway friction for pavement maintenance purposes.

Following Change 8 to the AC, dated February 7, 2007, which addressed updated information for manufacturers certified by the FAA, CDA contracted with Progressive Industries, Inc. (Progressive), on February 1, 2008, for the purchase of runway friction testing units. These units were installed by Dynatest Consulting, Inc. (Dynatest) as a subconsultant to Progressive. Once the units were purchased, a separate contract with Dynatest was executed for calibration and maintenance of the runway friction testing units. That small order contract, PO 20261 executed in September 2009, expires on August 31, 2014.

2. Is this a first time requirement or a continuation of previous procurement from the same source? If so, explain the procurement history.

This is a request for a contract to continue the maintenance of equipment previously installed and maintained by the same vendor. As the equipment is in good repair and of current FAA-approved technology, it is much more cost-effective to continue maintaining the existing equipment than replacing the equipment through competitive bid. Dynatest is the sole source for certification, service, parts and labor for the existing equipment.

3. Explain attempts made to competitively bid the requirement (attach copy of sources contacted.)

Progressive Industries won a competitive bid contract for the purchase of the runway friction testing units when multiple manufacturers' products would have been acceptable. Progressive proposed a Dynatest product, and only Dynatest is authorized to provide maintenance services to the runway friction testing units. Dynatest's equipment is proprietary and no other facilities or organizations are authorized or licensed to provide service, calibration, software or support for the runway friction testing equipment owned by CDA. As such, no formal attempt was made to competitively bid the requirement since no other company would be qualified to respond.

4. Describe in detail all research done to find other sources; list other cities, companies in the industry, professional organizations contacted. List periodicals and other publications used as references.

CDA owns four Dynatest 6875 runway friction testers (two each at O'Hare and Midway), and owns an additional Dynatest 6810 runway friction tester at Midway. Dynatest has stated in writing that it is the sole manufacturer and service provider for these testers, and CDA referenced FAA Advisory Circular (AC) 150/5320-12c Change 8, dated February 2, 2007, which confirms Dynatest as the only FAA-approved provider and servicer of these testers. CDA has also verified that Change 8 is the most recent update to AC 150/5320-12c.

5. Explain future procurement objectives. Is this a one-time request or will future requests be made for doing



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business with the same source?

This is a request for a 5-year term contract to maintain existing equipment previously installed by Dynatest. As Dynatest is the only vendor licensed and capable of maintaining its proprietary equipment, future requests will depend on whether continued maintenance and operation of the current equipment is in the best financial and operational interest of CDA. CDA believes that competitive bidding would be possible for future procurement cycles should Dynatest license parties outside of Dynatest to perform service, support, calibration or other activities that pertain to the manufacture, support, service, and calibration of their runway friction testers. Also, should replacement of the runway friction testers become more cost effective or required due to obsolescence, competitive bidding for new testers will be possible.

6. Explain whether or not future competitive bidding is possible. If not, explain in detail.

CDA believes that competitive bidding may be possible for future procurement cycles should Dynatest in the future license third parties to perform service, support, calibration or other activities pertaining to the manufacture, support, service, and calibration of its runway friction testers. Also, should replacement of the runway friction testers become more cost effective or required due to obsolescence, competitive bidding for new testers will be possible. In the meantime, there no other organizations besides Dynatest that are authorized or licensed to produce Dynatest runway friction testers or its components and there are no authorized organization outside of Dynatest to service, calibrate, or support their runway friction testers. Dynatest currently has not trained anyone outside of Dynatest to service, calibrate or support their runway friction testers and they currently have no plans to do so.

**ESTIMATED COST**

1. What is the estimated cost for this requirement or for each contract, if multiple awards are contemplated? What is the funding source?

The total cost of the contract is estimated at \$155,726 over five (5) years, based on the Base Year annual cost plus 3% escalation on calibration and labor costs. Shipping, repair parts, and vendor travel costs shall be based on actual expenditures, subject to City-approved limits for vendor travel, food and lodging expenses. Base Year annual cost is calculated as follows.

Item	Unit Cost	Units	Quantity	Total
RFT calibration	\$1,000.00	Each	5	\$5,000.00
Travel labor and shop/field repair labor	\$110.00	Per hour	48	\$5,280.00
Training labor	\$1,400.00	Per day	3	\$4,200.00
Calibration equipment shipping	\$1,600.00	Direct cost	1	\$1,600.00
Per diem food	\$60.00	Direct cost	2	\$120.00
Per diem hotel	\$225.00	Direct cost	2	\$450.00
Transportation/flight	\$600.00	Direct cost	1	\$600.00
Repair parts (See Note1)	\$600.00	Per vehicle	5	\$3,000.00
Damage contingency (See Note 2)	\$10,000.00	Each	1	\$10,000.00
<b>Total (Annual – Base Year)</b>				<b>\$30,250.00</b>

**Notes:**

- It is unlikely that all five units will require all of the possible repair parts. The Airport will only be billed for parts required and installed.
- Damage contingency was estimated based on the unlikely event that one transducer (the most expensive unit component at approximately \$8,000) would need to be replaced due to damage each year, in addition to other



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miscellaneous items.

**2. What is the estimated cost by fiscal year?**

The annual cost will be the Base Year annual cost plus 3% escalation on all items except the per diem food, hotel, and air travel, which will be based on actual expenditures subject to City-approved limits.

**Estimated Cost by Fiscal Year**

Year 1	Year 2	Year 3	Year 4	Year 5
\$30,250.00	\$30,684.40	\$31,131.83	\$31,592.69	\$32,067.37

**3. Explain the basis for estimating the cost and what assumptions were made and/or data used (i.e., budgeted amount, previous contract price, current catalog or cost proposal from firms solicited, engineering or in-house estimates, etc.)**

The costs estimates shown are a direct quotation provided by the contract liaison at Dynatest to CDA. City of Chicago Travel Guidelines were consulted to ensure compliance of per diem limits.

**4. Explain whether the proposed Contractor or the City has a substantial dollar investment in original design, tooling or other factors which would be duplicated at City expense if another source was considered. Describe cost savings or other measurable benefits to the City which may be achieved.**

In 2008, CDA signed a contract with Progressive Industries, Inc. to furnish truck-mounted runway friction testers for O'Hare and Midway International Airports. Those units were installed by Dynatest as a subconsultant to Progressive at a cost of \$799, 254. If replacement of the existing units were to be considered through a competitive bid process, it is likely that this installation cost would be duplicated, with future maintenance contracts subject to the same proprietary service issues being considered in this application. The total 5-year cost of this maintenance contract is anticipated to be far less than the estimated cost of replacement.

**5. Explain what negotiation of price has occurred or will occur. Detail why the estimated cost is deemed reasonable.**

CDA's consultant, Ricondo & Associates (R&A), contacted Dynatest regarding its proposal. R&A was told that pricing for unit calibration was standard at \$1,000/unit, and that other costs were estimated based on actual costs and travel requirements for servicing. CDA and R&A have reviewed the itemized estimate and determined it to be reasonable. The pricing for calibration is less than the existing contract while the labor rates that are five years old have only increased 10% (less than 2% per year).

**SCHEDULE REQUIREMENTS**

**1. Explain how the schedule was developed and at what point the specific dates were known.**

The most recent contract with Dynatest is effective until August 31, 2014. However, the vendor compensation limit on this contract has nearly been reached, and CDA will not be able to accommodate next year's calibration and training requirements without a new contract in place.

**2. Is lack of drawings and/or specifications a constraining factor to competitive bidding? If so, why is the proposed Contractor the only person or firm able to perform under these circumstances? Why are the drawings and specifications lacking? What is the lead time required to get drawings and specifications suitable for competition? If lack of drawings and specifications is not a constraining factor to competitive bidding, explain why only one person or firm can meet the required schedule.**



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Not applicable. Lack of drawings and/or specifications is not a constraining factor to competitive bidding.

3. Outline the required schedule by delivery or completion dates and explain the reasons why the schedule is critical.

A new agreement with Dynatest is critical to address calibration and training requirements for 2014. While the current agreement with Dynatest is effective until August 31, 2014, the vendor limit of that agreement has nearly been reached and insufficient funds remain for 2014 needs and beyond.

4. Describe in detail what impact delays for competitive bidding would have on City operations, programs, costs and budgeted funds.

Dynatest is the only approved manufacturer, service provider, calibration provider and training provider for the 6875 and 6810 runway friction testers. Without a new agreement with Dynatest, CDA will be unable to meet FAA requirements for runway friction testing.

**EXCLUSIVE OR UNIQUE CAPABILITY**

1. If contemplating hiring a person or firm as a Professional Service Consultant, explain in detail what professional skills, expertise, qualifications, and/or other factors make this person or firm exclusively or uniquely qualified for the project. Attach a copy of the cost proposal, scope of services, and Temporary Consulting Services Form.

Dynatest Consulting, Inc., which acquired the Transportation Test Equipment Division of K.J. Law Engineers, Inc. in 2002, is now the sole manufacturer, service provider, calibration provider and training provider for the Dynatest 6810 and 6875 Runway Friction Tester units owned and operated by CDA. No other facilities or organizations are authorized or licensed to produce the 6810 and 6875 Runway Friction Testers or its components. No other organizations outside of Dynatest are authorized to provide service, calibration, software or support for these Runway Friction Testers. No one outside of Dynatest has been trained to service, calibrate or support the 6810 and 6875 Runway Friction Testers and Dynatest has no plans to train anyone outside of the company to perform such services, calibrations, support, or any other activities pertaining to the manufacture, support, service, calibration, and training of maintenance of the 6810 and 6875 Runway Friction Testers. Dynatest is therefore an exclusive and unique supplier solely capable of supplying service, parts, calibration and support for these runway friction testers.

2. Does the proposed firm have personnel considered unquestionably predominant in the particular field?

Dynatest personnel are the only licensed and trained experts in the manufacture, service, support, calibration and training of maintenance of the 6810 and 6875 Runway Friction Testers. No other organization outside of Dynatest is authorized or licensed to produce the 6810 and 6875 Runway Friction Testers or their components. No other organization outside of Dynatest are authorized to provide service, calibration, software or support for the 6810 and 6875 Runway Friction Testers and Dynatest has no plans to train anyone outside of the company to perform such services, calibrations, support, or any other activities pertaining to the manufacture, support, service, calibration, and training of maintenance of the 6810 and 6875 Runway Friction Testers.

3. What prior experiences of a highly specialized nature does the person or firm exclusively possess that is vital to the job, project or program?

Dynatest manufactures its own parts and equipment and does not license any other individual or firm to maintain that proprietary equipment. The existing equipment owned by CDA was manufactured and installed by Dynatest and, as such, only Dynatest has the requisite knowledge and experience to maintain CDA's friction testing equipment.

4. What technical facilities or test equipment does the person or firm exclusively possess of a highly specialized nature which is vital to the job?



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Dynatest manufactures its own parts and equipment and does not license any other individual or firm to test or calibrate that proprietary equipment. The existing equipment owned by CDA was manufactured and installed by Dynatest and, as such, only Dynatest has the requisite knowledge and experience to test and calibrate CDA's friction testing equipment.

5. What other capabilities and/or capacity does the proposed firm possess which is necessary for the specific job, project or program which makes them the only source who can perform the work within the required time schedule without unreasonable costs to the city?

Dynatest is the sole provider of the 6810 and 6875 Runway Friction Testers and the only organization authorized or licensed to produce these units and their components. No other organizations other than Dynatest are authorized to provide service, calibration, software or support for these Runway Friction Testers. Dynatest has not trained anyone outside their company to service, calibrate, or support these Runway Friction Tester units nor do they have plans to do so. Dynatest is the only organization authorized and with properly certified personnel to provide service, calibration, software or support for these Runway Friction Testers and are therefore is the only source that can perform the necessary work.

6. If procuring products or equipment, describe the intended use and explain any exclusive or unique capabilities, features, and/or functions the items have which no other brands or models, possess. Is compatibility with existing equipment critical from an operational standpoint? If so, provide detailed explanation?

N/A – procurement is for service of existing equipment, not new products or equipment.

7. Is competition precluded because of the existence of patent rights, copyrights, trade secrets, technical data, or other proprietary data (attach documentation verifying such)?

Competition is precluded because Dynatest is the sole supplier of the 6810 and 6875 Runway Friction Testers and the only authorized service provider for these units. No other facilities or organizations authorized or licensed to produce these Runway Friction Testers or their components. No organization outside of Dynatest is authorized or licensed to provide service, calibration, software or support for these Runway Friction Testers.

8. If procuring replacement parts and/or maintenance services, explain whether or not replacement parts and/or services can be obtained from any other sources? If not, is the proposed firm the only authorized or exclusive dealer/distributor and/or service center? If so, attach a letter from manufacturer on company letterhead.

Dynatest is the sole manufacturer of parts and provider of maintenance services for its manufactured equipment. Dynatest is the sole supplier of the Runway Friction Tester and no other facilities or organization is authorized or licensed to produce the 6810 and 6875 runway friction tester or any of its components. Replacement parts and maintenance services for the trucks carrying the friction testers will be obtained through other City contracts that have been competitively bid.



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**MBE/WBE COMPLIANCE PLAN**

\* All submissions must contain detailed information about how the proposed firm will comply with the requirements of the City's Minority and Women Owned Business program. All submissions must include a completed C-1 and D-1 form, which is available on the Procurement Services page on the City's intranet site. The City Department must submit a Compliance Plan, including details about direct and indirect compliance.

A request for No Stated Goals was submitted and approved in October 2013. Copies are attached.

**OTHER**

1. Explain other related considerations and attach all applicable supporting documents, i.e., an approved "ITGB Form" or "Request For Individual Hire Form".



## DEPARTMENT OF PROCUREMENT SERVICES NON-COMPETITIVE REVIEW BOARD (NCRB) APPLICATION INSTRUCTIONS FOR NON-COMPETITIVE PROCUREMENT APPLICATION

### INSTRUCTIONS FOR PREPARATION OF NON-COMPETITIVE PROCUREMENT APPLICATION

If a City Department has determined that the purchase of supplies, equipment, work and/or services cannot be done on a competitive basis, a justification must be prepared on this "Justification for Non-Competitive Procurement Application" in which procurement is requested on a or non-competitive basis in accordance with 65 ILCS 5/8-10-4 of the Illinois Compiled Statutes. Using this instruction sheet, all applicable information must be addressed on the worksheet. The information provided must be complete and in sufficient detail to allow for a decision to be made by the Non-Competitive Procurement Review Board. For Amendments, Modifications, describe in detail the change in terms of dollars, time period, scope of services, etc., its relationship to the original contract and the specific reasons for the change. Indicate both the original and the adjusted contract amount and/or expiration date with this change.

Attach a DPS Checklist and any other required documentation; the Board will not consider justification with incomplete information documentation or omissions.

#### PROCUREMENT HISTORY

1. Describe the requirement and how it evolved from initial planning to its present status.
2. Is this a first time requirement or a continuation of previous procurement from the same source? If so, explain the procurement history.
3. Explain attempts made to competitively bid the requirement (attach copy of sources contacted).
4. Describe in detail all research done to find other sources; list other cities, companies in the industry, professional organizations contacted. List periodicals and other publications used as references.
5. Explain future procurement objectives. Is this a one-time request or will future requests be made for doing business with the same source?
6. Explain whether or not future competitive bidding is possible. If not, explain in detail.

#### ESTIMATED COST

1. What is the estimated cost for this requirement or for each contract, if multiple awards are contemplated? What is the funding source?
2. What is the estimated cost by fiscal year?
3. Explain the basis for estimating the cost and what assumptions were made and/or data used (i.e., budgeted amount, previous contract price, current catalog or cost proposal from firms solicited, engineering or in-house estimate, etc.)
4. Explain whether the proposed Contractor or the City has a substantial dollar investment in original design, tooling or other factors which would be duplicated at City expense if another source was considered. Describe cost savings or other measurable benefits to the City which may be achieved.
5. Explain what negotiation of price has occurred or will occur. Detail why the estimated cost is deemed reasonable.

#### SCHEDULE REQUIREMENTS

1. Explain how the schedule was developed and at what point the specific dates were known.
2. Is lack of drawings and/or specifications a constraining factor to competitive bidding? If so, why is the proposed Contractor the only person or firm able to perform under these circumstances? Why are the drawings and specifications lacking? What is the lead time required to get drawings and specifications suitable for competition? If lack of drawings and specifications is not a constraining factor to competitive bidding, explain why only one person or firm can meet the required schedule.
3. Outline the required schedule by delivery or completion dates and explain the reasons why the schedule is critical.
4. Describe in detail what impact delays for competitive bidding would have on City operations, programs, costs and budgeted funds.

#### EXCLUSIVE OR UNIQUE CAPABILITY

1. If contemplating hiring a person or firm as a Professional Service Consultant, explain in detail what professional skills, expertise, qualifications, and/or other factors make this person or firm exclusively or uniquely qualified for the project. Attach a copy of the cost proposal, scope of services, and Temporary Consulting Services Form.
2. Does the proposed firm have personnel considered unquestionably predominant in the particular field?
3. What prior experiences of a highly specialized nature does the person or firm exclusively possess that is vital to the job, project or program?
4. What technical facilities or test equipment does the person or firm exclusively possess of a highly specialized nature which is vital to the job?
5. What other capabilities and/or capacity does the proposed firm possess which is necessary for the specific job, project or program which makes them the only source who can perform the work within the required time schedule without unreasonable costs to the City?
6. If procuring products or equipment, describe the intended use and explain any exclusive or unique capabilities, features and/or functions the items have which no other brands or models possess. Is compatibility with existing equipment critical from an operational standpoint? If so, provide detailed explanation?
7. Is competition precluded because of the existence of patent rights, copyrights, trade secrets, technical data, or other proprietary data (attach documentation verifying such)?
8. If procuring replacement parts and/or maintenance services, explain whether or not replacement parts and/or services can be obtained from any other sources? If not, is the proposed firm the only authorized or exclusive dealer/distributor and/or service center? If so, attach letter from manufacturer on company letterhead.

#### MBE/WBE COMPLIANCE PLAN

- \* All submissions must contain detailed information about how the proposed firm will comply with the requirements of the City's Minority and Women Owned Business program. All submissions must include a completed C-1 and D-1 form, which is available on the Procurement Services page on the City's intranet site. The City Department must submit a Compliance Plan, including details about direct and indirect compliance.

#### OTHER

1. Explain other related considerations and attach all applicable supporting documents, i.e., an approved "ITGB Form" or "Request For Individual Hire Form".

#### REVIEW AND APPROVAL

This application must be signed by both Originator of the request and signed by the Department Head. After review and final disposition from the Board, this application will be signed by the Board Chairman. After review and final disposition from the Board, this form will be presented to the Chief Procurement Officer recommending approval.




# Department of Procurement Services

## Project Checklist

Attach required forms for each procurement type and detailed scope of services and/or specifications and forward original documents to City Hall, Room 806, Attention: Chief Procurement Officer.

For blanket agreements, original or lead department must consult with other potential departments who may want to participate on the blanket agreement. If grant funded, attach copy of the approved grant application and other terms and conditions of the funding source. Note: 1) Funding: Attach information if multiple funding lines; 2) Individual Contract Services: Include approval form signed by Department Head and OBM; 3) ITGB: IT project valued at \$100,000.00 or more, attach approval transmittal sheet.

<b>Current Date:</b> February 14, 2014		<b>Estimated Contract Award Date:</b>	
<b>Department Name:</b> Aviation		<b>Contract Liaison:</b> David Bowman	<b>Project Manager:</b> George Lyman
<b>Requisition No:</b> 88786	<b>Specification No:</b> 123118	<b>Telephone:</b> 773 686-7089	<b>Telephone:</b> 773 894-5291
<b>PO No:</b>	<b>Modification No:</b>	<b>Email:</b>	<b>Email:</b>
		<b>Contract Liaison Signature</b> 	

**Project Description:** Inspection, Calibration, Repair, Parts and Training for Dynatest Runway Friction Testing Equipment

### Funding:

<input type="checkbox"/> Corporate	<input type="checkbox"/> Bond	<input checked="checked" type="checkbox"/> Enterprise	<input type="checkbox"/> Grant*	<input type="checkbox"/> Other:
<input type="checkbox"/> IDOT/Transit	<input type="checkbox"/> IDOT/Highway	<input type="checkbox"/> FHWA	<input type="checkbox"/> FTA	<input type="checkbox"/> FAA

LINE	FY	FUND	DEPT	ORGN	APPR	ACTV	PROJECT	RPTG	ESTIMATED \$ DOLLAR AMOUNT
	14	740	85	4005	0340	0340			155,726.00

Check One:

**New Contract Request**  **Modification or Amendment**

### Purchase Order Information:

<b>Contract Term (No. of Years):</b> 5.0	<b>MBE/WBE/DBE Analysis:</b>
<b>Estimated Spend/Value:</b> \$ 155,726.00	<input type="checkbox"/> Full Compliance <input type="checkbox"/> Contract Specific Goals
<b>*Grant Commitment / Expiration Date:</b>	<input checked="checked" type="checkbox"/> No Stated Goals <input type="checkbox"/> Waiver Request
<b>Pre-Bid/Submittal Conference:</b>	Attach MBE/WBE or DBE Goal Setting Memo
<input type="checkbox"/> Yes <input type="checkbox"/> Mandatory	
<input type="checkbox"/> No <input type="checkbox"/> Site Visit	

### Purchase Order Type:

<input checked="checked" type="checkbox"/> Blanket/Purchase Order (DUR)	<input type="checkbox"/> Architect Engineering	<input type="checkbox"/> Time Extension
<input type="checkbox"/> Master Consultant Agreement (Task Order)	<input type="checkbox"/> Commodity	<input type="checkbox"/> Vendor Limit Increase
<input type="checkbox"/> Standard/One-Time Purchase	<input type="checkbox"/> Construction <input type="checkbox"/> JOC	<input type="checkbox"/> Scope Change/Price Increase/Additional Line Item(s)
	<input type="checkbox"/> Professional Services	<input type="checkbox"/> Requisition Encumbrance Adjustment
	<input type="checkbox"/> Revenue Generating	<input type="checkbox"/> Other (specify):

### Procurement Method:

Bid  RFP  RFQ  RFI  
 Small Order

### Special Approvals Required:

Emergency  
 Non-Competitive Review Board (NCRB)  
 Request for Individual Contract Services  
 Information Technology Governance Board (ITGB)  
 GSA/US Communities

### Innovative Procurement:

Pilot Test

### Contract Type:

Vehicle & Heavy Equipment  
 Work Service  
 Joint Procurement  
 Reference Contract

### Modification/Amendment Type:

Other (specify):

### Vendor Info:

Name:  
E-mail:  
Address:  
  
Contact Person:  
Phone:

## **Commissioner's Letter to Procurement**



CHICAGO DEPARTMENT OF AVIATION  
CITY OF CHICAGO

To: Jamie L. Rhee  
Chief Procurement Officer

Attention: Elizabeth Granados-Perez  
Deputy Procurement Officer

Richard Butler  
First Deputy Procurement Officer

From: Rosemarie S. Andolino  
Commissioner

Subject: **Request for New Non-Competitive Procurement Contract  
Inspection, Calibration, Repair, Parts and Training for  
Dynatest Runway Friction Testing Equipment  
Expiring PO Number: 20261  
Expiring Specification Number: 70238  
Current Expiration: 08/31/2014  
Current Vendor: Dynatest Consulting, Inc.**

*RSA 2/18/14*  
*(a)*

The Chicago Department of Aviation (CDA) requests approval and assistance in awarding a five (5) year non-competitive procurement contract to Dynatest Consulting, Inc. (Dynatest) for Inspection, Calibration, Repair, Parts and Training for Dynatest Runway Friction Testing Equipment.

CDA owns five Dynatest runway friction testers, which allow CDA to routinely monitor its runways to ensure they provide adequate friction for aircraft, particularly for those braking in wet conditions. Dynatest holds the existing non-competitively procured contract for calibration and maintenance of the units, and in fact is the only FAA-approved source for certification, calibration, service, parts and labor for the existing equipment. Dynatest has provided excellent service since February 2008 maintaining and calibrating this critical safety equipment at O'Hare and Midway.

The current contract with Dynatest for calibration and maintenance services will expire on August 31, 2014. CDA is requesting to continue the maintenance of the equipment previously installed and maintained by this vendor. FAA Advisory Circular (AC) 150/5320-12c Change 8, dated February 2, 2007 (the most recent update), confirms that Dynatest is the only FAA-approved provider and servicer of these testers. Dynatest's equipment is proprietary and no other facilities or organizations are authorized or licensed to provide service, calibration, software or support for the runway friction testing equipment owned by CDA. Dynatest manufactures its own parts and equipment and does not license any other individual or firm to maintain that proprietary equipment.

As the equipment is in good repair and of current FAA-approved technology, it is much more cost-effective to continue maintaining the existing equipment than replacing the equipment through competitive bid. The total cost of this procurement is estimated at approximately \$155,726 over five (5) years, based on the base year annual cost plus 3% escalation on all items except the per diem food, hotel, and air travel, which will be based on actual expenditures subject to City-approved limits. Annual costs for the base year generally include calibration of five (5) units at \$1,000.00 per unit, three (3) days of labor at \$1,400.00 per day to train CDA employees on the use of the equipment, 48 hours of field/repair labor at \$110.00 per hour, contingencies for repair parts and labor, plus direct costs for shipping and technician travel/food/lodging expense. Estimated costs by fiscal year are:

<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
\$30,250.00	\$30,684.40	\$31,131.83	\$31,592.69	\$32,067.37

These cost estimates are based on a direct quotation provided by Dynatest to CDA. City of Chicago Travel Guidelines were consulted to ensure compliance of per diem limits. If replacement of the existing units were to be considered through a competitive bid process, it is likely that the cost would match or exceed the cost of the initial installation, which totaled \$799,254. It is also likely that future maintenance contracts would likely be subject to the same proprietary service issues being considered in this application. The total five-year cost of this maintenance contract is therefore anticipated to be far less than the estimated cost of replacement.

As Dynatest is the only vendor licensed and capable of maintaining its proprietary equipment, CDA is requesting a non-competitive procurement for this service. Future requests will depend on whether continued maintenance and operation of the current equipment is in the best financial and operational interest of CDA, and whether other parties become licensed and approved by the FAA to perform service, support, and calibration of Dynatest units. Should replacement of the runway friction testers become more cost effective or required due to obsolescence, or if other vendors are licensed and approved to perform the required services, competitive bidding will be possible.

With the existing contract expiring this year and the current vendor limit having nearly been reached, CDA cannot accommodate necessary calibration and repairs on its existing equipment. As a result, CDA will be unable to meet FAA requirements for runway friction testing without a new agreement. A new non-competitive contract with Dynatest is therefore of critical need in maintaining safety at O'Hare and Midway Airports.

Funding: 740 85 4005 0340 0340

Duration: 5 Years

User Deputy: George Lyman Phone: (773) 894-5291

The following CDA employees participated in drafting the Specifications and/or negotiating with the Contractor:

George Lyman *DL*  
Deputy Commissioner

Date 2/14/14

Tom Stastny *TS*  
Airport Manager

Date 2/18/14

David Bowman *DB*  
Supervisor of Contracts

Date 2/14/14

**Dynatest Certificate of Insurance**



# CERTIFICATE OF LIABILITY INSURANCE

OP ID: GC

DATE (MMDDYYYY)

01/07/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Coast General Ins Brokers 5755 Valentine Rd. #301 Ventura, CA 93003 Brenda M. Allison	CONTACT NAME: Coast General Ins Brokers		
	PHONE (A/C, No, Ext): 805-644-4740	FAX (A/C, No): 805-644-4780	
E-MAIL ADDRESS: gina@allisonbroker.com			
PRODUCER CUSTOMER ID #: DYNAT-1			
INSURED Dynatest Consulting, Inc. 165 S. Chestnut Street Ventura, CA 93001	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: AXA Insurance		33022
	INSURER B: American States Ins. Co.		19704
	INSURER C: Us Specialty Insurance Co.		29599
	INSURER D:		
	INSURER E:		
INSURER F:			

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS						
A	GENERAL LIABILITY	X		PCS001271(14)	01/01/2014	01/01/2015	EACH OCCURRENCE	\$ 5,000,000					
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000					
	<input checked="" type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR						MED EXP (Any one person)	\$ 10,000					
							PERSONAL & ADV INJURY	\$ 5,000,000					
							GENERAL AGGREGATE	\$ 5,000,000					
							PRODUCTS - COMP/OP AGG	\$ 5,000,000					
	GEN'L AGGREGATE LIMIT APPLIES PER:												
	<input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC												
B	AUTOMOBILE LIABILITY			01-CI-732586-10	10/27/2013	10/27/2014	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000					
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person)	\$					
	<input type="checkbox"/> ALL OWNED AUTOS						BODILY INJURY (Per accident)	\$					
	<input type="checkbox"/> SCHEDULED AUTOS						PROPERTY DAMAGE (PER ACCIDENT)	\$					
	<input checked="" type="checkbox"/> HIRED AUTOS							\$					
	<input checked="" type="checkbox"/> NON-OWNED AUTOS							\$					
	UMBRELLA LIAB						EACH OCCURRENCE	\$					
	EXCESS LIAB						CLAIMS-MADE	AGGREGATE	\$				
	DEDUCTIBLE								\$				
	RETENTION \$								\$				
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						WC STATUTORY LIMITS	OTHER					
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						Y/N	N/A	E.L. EACH ACCIDENT	\$			
	If yes, describe under DESCRIPTION OF OPERATIONS below								E.L. DISEASE - EA EMPLOYEE	\$			
									E.L. DISEASE - POLICY LIMIT	\$			
C	Architects E&O			USS1324393	10/31/2013	10/31/2014	Limit	1,000,000					
							Ded	35,000					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)  
 \*10 Day Notice for Non Payment of Premium\*  
 Certificate Holder is named as an Additional Insured with respect to the General Liability.

## CERTIFICATE HOLDER

## CANCELLATION

City of Chicago Dept of  
Aviation  
PO Box 66142  
Chicago, IL 60666

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

*Gina Chessani*

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**Dynatest Sole Source Justification Letter**



DYNATEST CONSULTING, INC.

38284 Abruzzi Drive  
Westland, MI 48185 USA  
Telephone +1 734 729-0400  
FAX +1 734 729-0401

Webpage: [www.dynatest.com](http://www.dynatest.com)  
E-mail: [mi@dynatest.com](mailto:mi@dynatest.com)

Pavement Engineering Specialists  
and Equipment

September 5, 2013

City of Chicago  
O'Hare International Airport  
Midway International Airport  
Chicago, Illinois 60666

Reference: Dynatest 6810, 6850 and 6875 Runway Friction Testers

To Whom It May Concern.

Dynatest Consulting Inc. is the sole manufacturer of the FAA approved Runway Friction Tester. See attached FAA document.

Dynatest Consulting, Inc., having acquired the Transportation Test Equipment Division of K.J. Law in 2002, is now the sole manufacturer, service provider, calibration provider and training provider for the Dynatest 6810, 6850, 6875 Runway Friction Tester units owned by Chicago O'Hare and Midway Airports.

As the manufacturer of this equipment, Dynatest Consulting, Inc. is the sole source supplier of the Runway Friction Tester. There are no other facilities or organizations authorized or licensed to produce the 6800, 6810, 6850 and 6875 RFT or its components. There are no authorized organizations outside of Dynatest to provide service, calibration, software or support for the Runway Friction Tester in all of its formats.

While there are other companies that are certified for providing and servicing friction testing equipment as included on the approved list of friction testers found in FAA AC150/5320-12c Change 8, each listed company manufactures, services and calibrates its own equipment and none of these other companies is authorized to do this for Dynatest manufactured equipment. Therefore, as this contract is for the maintenance and repair of equipment already owned by the City, Dynatest is the sole source for certification, service, parts and labor. Dynatest manufactures its own parts and equipment, is located out of town, uses its own techs in the field and in its shop to service equipment, and makes its own limited travel arrangements, and as such does not have opportunities for subcontracting City of Chicago certified MBE/WBE firms."

Dynatest has no plans to train anyone outside of the company to perform service, support, calibration or any other activity pertaining to the manufacture, support, service, calibration, training of maintenance of the 6800, 6810, 6850 or 6875 RFT.

Dynatest would ask that we be considered an exclusive and unique supplier solely capable of supplying service, parts, calibration and support for these testers.

Should you have any questions concerning this please feel free to contact myself at our office in Westland at 1-734-729-0400.

Best Regards,

Frank B. Holt  
Senior Vice President  
Dynatest Consulting Inc.

## **EDS Certificate of Filing**

CERTIFICATE OF FILING FOR  
CITY OF CHICAGO ECONOMIC DISCLOSURE STATEMENT

EDS Number: 48681

Date of This Filing:10/22/2013 12:20 PM

Certificate Printed on: 10/22/2013

Original Filing Date:10/22/2013 12:20 PM

Disclosing Party: Dynatest Consulting, Inc.

Title:Director of Administration

Filed by: Ms. Margaret S Johns

Matter: Calibration of Chicago 5 Runway

Friction Test Machines

Applicant: Dynatest Consulting, Inc.

Specification #:

Contract #:

The Economic Disclosure Statement referenced above has been electronically filed with the City. Please provide a copy of this Certificate of Filing to your city contact with other required documents pertaining to the Matter. For additional guidance as to when to provide this Certificate and other required documents, please follow instructions provided to you about the Matter or consult with your City contact.

A copy of the EDS may be viewed and printed by visiting <https://webapps1.cityofchicago.org/EDSWeb> and entering the EDS number into the EDS Search. Prior to contract award, the filing is accessible online only to the disclosing party and the City, but is still subject to the Illinois Freedom of Information Act. The filing is visible online to the public after contract award.



**Dynatest Compliances**



DEPARTMENT OF PROCUREMENT SERVICES  
CITY OF CHICAGO

**NO STATED GOAL REPLY MEMORANDUM**

TO: Rosemarie S. Andolino  
Commissioner  
Chicago Department of Aviation

FROM:   
Jamie L. Rhee  
Chief Procurement Officer 

DATE: OCT 25 2013

RE: Inspection, Calibration, Repair, Parts and Training for Dynatest Runway  
Friction Testing Equipment  
Spec# TBD

---

After further review and consideration, the Department of Procurement Services approves the No Stated Goal request for the inspection, calibration, repair, parts and training for dynatest runway friction testing equipment for Chicago Department of Aviation.

If you have any questions, please contact Monica Jimenez, Deputy Procurement Officer at (312) 744-0845 or via email at [monica.jimenez@cityofchicago.org](mailto:monica.jimenez@cityofchicago.org).

JLR:gs





CHICAGO DEPARTMENT OF AVIATION  
CITY OF CHICAGO

MEMORANDUM

To: Jamie L. Rhee  
Chief Procurement Officer

Attention: James McIsaac  
Deputy Procurement Officer

Monica Jimenez  
Deputy Procurement Officer

From: Rosemarie S. Andolino  
Commissioner

Subject: MBE/WBE Goals for Inspection, Calibration, Repair, Parts and Training for  
Dynatest Runway Friction Testing Equipment  
Specification # TBD

*RSA 10/11/13*  
*(AL)*

The Chicago Department of Aviation (CDA) requests no stated goals be set for MBE/WBE participation for the above mentioned non-competitive procurement specification. This request is based on the specialized commodity nature of Inspection, Calibration, Repair, Parts and Training for Dynatest Runway Friction Testing Equipment and the lack of true subcontracting opportunities.

The CDA has conducted a search on the DPS website (screen print results attached) to identify certified MBE/WBE firms that could participate in a commercially useful manner for the above mentioned contract and, at present, CDA has not discovered any MBE/WBE firms available on the City's directory of certified firms that could participate on this contract.

If you have any questions or need additional information regarding this recommendation, please contact David Bowman at (773) 686-7089.

**Department Facts**

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[Our Structure](#)

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[Bid Tabulations](#)

## Certification and Compliance System (C2)

### MWDBE Directory

Search City of Chicago's MWDBE Directory by entering search terms and clicking Search. You must select at least one certification type.

Department of Procurement Services Division

#### Search by Business Name or DBA

Business Name/DBA:  Tic: T... (the first 10 characters of the business name)

#### Search by Business Description

Business Description:  Runway Friction Testing Equipment

#### Search by Commodity Code

Commodity Code:  Use the following Commodity Code to search for goods and services. All applicable codes are available. Consult the Commodity Code.

#### Search by Contact Person

Contact Person/Owner	First name	Last name
<input type="text"/>	<input type="text"/>	<input type="text"/>

Tic: T... (the first 10 characters)      Tic: T... (the first 10 characters)

#### Search by Location

**System Links**

- » [System Login](#)
- » [Password Reminder](#)
- » [Account Lookup](#)
- » [FAQs](#)
- » [MWDBE Directory](#)
- » [Apply for Certification](#)
- » [Upcoming Events](#)
- » [Staff Information](#)
- » [Contact Us & Support](#)

**City of Chicago**

Department of Procurement Services  
 Department of Business Affairs and Consumer Protection  
 Department of Aviation



Department of Mission

Search by Location

City

State

Zip Code

Phone Area Code

Search by Certification Type

Certifications

- Airport Concessionaire Disadvantaged Business Enterprise (ACDBE)
- Business Enterprises owned by People with Disabilities (BEPD)
- Disadvantaged Business Enterprise (DBE)
- Minority Business Enterprise (MBE)
- Women Business Enterprise (WBE)

Search Again

0 BUSINESSES with 0 CONTACT ABOUT RESULTS

Search Results

Click the certification type for contact information and certification details

Your search parameters did not return any matches. Modify the information in the fields above and click Search Again

## **Dynatest Detailed Specifications**

## **DETAILED SPECIFICATIONS**

### **SCOPE**

Contractor will furnish and deliver to the Chicago Department of Aviation (CDA) F.O.B., all labor and material necessary for the inspection, calibration, repair and training on existing Dynatest 6810 and 6875 Friction Tester units, to the City of Chicago Department of Aviation, Airfield Operations Office, AMC Building, O'Hare Chicago, Illinois 60666, as outlined below and in the attached quote and as described herein all in accordance with the terms and conditions of this specification.

### **RUNWAY FRICTION TESTER CALIBRATION, SERVICE AND TRAINING**

Contractor shall furnish labor, parts, tools, services, transportation, support and all other items required for the inspection, calibration, repair and training on Friction Testing units owned and operated by the City of Chicago Department of Aviation. Pricing for calibration, service, and training is detailed below, and each shall be subject to additional compensation for travel labor (defined as time spent en route to/from technician's home or office to/from work site or hotel) and administrative labor (scheduling shipping of equipment, obtaining and scheduling shipping for parts, arranging travel, invoice preparation).

### **UNIT CALIBRATION (LINE 1)**

Equipment necessary to perform calibration will be shipped in advance (at Contractor's cost) to an O'Hare International Airport facility and stored in a secure garage area until technicians arrive. Each unit takes approximately eight hours to inspect and calibrate. The unit cost for calibration includes all labor, equipment, materials, insurance, overhead and profit in performing the calibration. Units will be calibrated to standards set by the Contractor and certificates of calibration will be provided by Contractor to the City.

### **SERVICE TO DYNATEST MANUFACTURED EQUIPMENT (LINE 2)**

Onsite: a technician will review the current status of Contractor-manufactured equipment and replace any parts that may be deficient or have reached the end of their expected life cycle. Repairs shall be made on-site unless Contractor determines on-site repairs to be infeasible based on cost or availability of personnel or equipment. In addition to time spent on repairs, onsite service will be subject to travel time to and from work site (at an hourly rate). Travel costs and subsistence will be in accordance with the City of Chicago Travel Guidelines. Contractor will be responsible for equipment related to the friction measuring function only and will not be responsible for identifying or repairing any deficiencies with the vehicle or its running gear.

At the factory: in the event that on-site repairs are deemed infeasible by Contractor and CDA, CDA shall be responsible for delivery of equipment to Contractor's facility in Westland, Michigan. Once the equipment arrives at the factory, a technician will review the current status of the Contractor-manufactured equipment and replace any parts that may be deficient or have reached the end of their expected life cycle. Contractor will be responsible only for equipment related to the friction measuring function and will not be responsible for identifying or repairing any deficiencies with the vehicle or its running gear. Factory labor will be compensated on an hourly basis for hours actually worked.

### **SHIPPING (LINE 3)**

For repairs that the City or Contractor choose to have made at the factory, CDA will be responsible for delivery of equipment between Contractor's facility and O'Hare International Airport. For equipment and or parts needed for on-site calibration and repairs, Contractor will arrange for round trip shipping between the factory and O'Hare International Airport. Shipping shall be billed at Contractor's cost as verified by shipping invoices.

When shipping equipment to CDA, Contractor must notify George Lyman, 773-894-5291, at least 24 hours prior to shipment.

### **PARTS (LINE 4)**

Contractor has provided a parts pricing list, subject to annual adjustment. Parts will be provided at list price and include shipping. Parts will be shipped to O'Hare International Airport, Airport Maintenance Complex, 10000 W. Montrose, Chicago, Illinois 60666, between the hours of 8 a.m. and 4 p.m. Monday through Friday. Contact person shall be George Lyman, 773-894-5291.

The above noted "contact person" must be notified at least 24 hours prior to delivery of the specified P/S Dynatest Runway Friction Testing Equipment parts.

### **TRAINING (LINE 5)**

Contractor will provide hands-on training for a minimum of 15 CDA employees (or fewer if specified by CDA) across three shifts at both O'Hare and Midway International Airports. This training will be focused on the proper operation and maintenance of the runway friction tester (RFT). The training will be consistent with the outline in Federal Aviation Administration Advisory Circular (AC) 5320-12C but will not include a classroom session. Certificates of Completion will be provided to those who have had their training updated. Training labor time shall be compensated on a daily basis. Travel and subsistence shall be billed in accordance with City of Chicago Travel Guidelines. Training materials are included in the training costs.

### **TRAVEL AND PER DIEM COSTS**

Travel for Contractor's technician will be billed pursuant to the City of Chicago Travel Guidelines. Contractor must provide detailed receipts with their invoice in order for the City to process payments for travel and per diem costs.

### **GUARANTEE**

The calibration and/or repair/service of the units are guaranteed for one year. Contractor will make any necessary corrections related to the calibration and any repairs/service within one year of the original calibration/repair service at no cost to the City of Chicago.

## **Dynatest Response to CDA (Proposal)**



February 8, 2014

Chicago Department of Aviation  
5757 S. Cicero Avenue  
Chicago, IL 60638  
Phone: 773.894.5291  
Fax: 773.686.2303

Attn: Mr. George Lyman  
Chicago O'Hare International Airport

Attn: Mr. Tom Stastny  
Chicago Midway International Airport

REF: Runway Friction Testing Equipment Calibration services

Dear Sir:

Further to your request, Dynatest offers the following proposal.

**Scope**

Dynatest will furnish and deliver all labor and materials necessary for the inspection, calibration, repair and training on existing Dynatest 6810 and 6875 Friction Tester units at O'Hare and Midway International Airports for a five (5) year contract period.

**Calibration**

Our technician will fly into O'Hare International Airport for calibration, and all units will be calibrated at O'Hare. The Chicago Department of Aviation (CDA) will need to provide a secure garage area for our technician to work in. Each unit will be reviewed and calibrated. CDA staff will bring the Midway units to O'Hare.

The calibration equipment will be shipped to O'Hare prior to our technician arriving and then removed when the calibration is complete.

Calibration cost includes all labor, materials, insurance, overhead, and profit.

**Service to Dynatest Manufactured Equipment on site at O'Hare**

The technician will review the current status of the Dynatest manufactured equipment and recommend any service items which should be taken care of including, but not limited to, such items as the hydraulic filter, test tire, and printer ink. Any recommended service items or deficiencies found during the calibration will be repaired upon City authorization on a time and materials basis pursuant to a quote provided by the Contractor in accordance with the rates for same listed in this proposal.

DYNATEST CONSULTING,  
INC.

38284 Abruzzi Drive  
Westland, MI 48185 USA  
Telephone +1 734 729-0400  
FAX +1 734 729-0401

Webpage: [www.dynatest.com](http://www.dynatest.com)  
E-mail: [mi@dynatest.com](mailto:mi@dynatest.com)

Pavement Engineering  
Specialists  
and Equipment



Dynatest will **NOT** review the vehicle nor its running gear for any deficiencies during this work effort. Should any vehicle deficiencies be identified, they will be brought to the attention of the airport staff.

### Training

Dynatest will provide hands-on training for CDA staff at both O'Hare and Midway Airports. This training will be in-vehicle training focused on the proper operation and maintenance of the runway friction tester (RFT). While this training will be consistent with the outline in FAA AC 5320-12C, it will **not** include a classroom session. Certificates of training will be provided after the course for those who have had their training updated. Best efforts will be made to train a minimum of 15 CDA employees (unless such number is reduced by CDA) across three shifts at each Airport.

### Pricing

The unit costs for items anticipated in this work effort are shown below:

<u>Item</u>	<u>Unit Cost</u>	<u>Units</u>
RFT calibration	\$1,000.00	Each
Travel labor and shop/field repair labor	\$110.00	Per hour
Training labor	\$1,400.00	Per day
Calibration equipment shipping	*	Direct cost
Per diem food	**	Per day
Per diem hotel	**	Per day
Transportation/flight	**	Direct cost
Repair parts	***	Each

- \* Shipping of Contractor's equipment and/or repair parts will be billed at Contractor's cost as verified by shipping invoices.
- \*\* Food, hotel, and travel for calibration and training will be billed in accordance with City Travel Guidelines.
- \*\*\* Repair parts will be billed at then-current Dynatest parts price list (See Appendix 1). Parts pricing includes shipping and is subject to annual adjustment by Contractor. It is unlikely that all units will require all of the possible repair parts. CDA will be billed only for parts required and installed, and for actual labor expended. Repairs shall be made on-site unless Contractor determines on-site repairs to be infeasible based on cost or availability of personnel or equipment. In the event that repair cannot be made at a CDA facility, it will be CDA's responsibility to have the equipment delivered to the Contractor's facility in



Westland, MI. CDA will also be responsible for the delivery of the unit from Contractor's shop to CDA's facility.

Travel labor shall be defined as travel between the Dynatest office and the work site. Travel time is defined as starting when the technician leaves home or the office for the airport (or vice versa) and stops when the technician reaches the work site (airport garage to begin work or the hotel if travel is done late in the working day) or home/office for the return trip.

**Price Adjustment**

Labor and calibration pricing will be firm for the first twelve (12) months. Thereafter, annual three percent (3%) increases will be given for the labor rate, calibration, and training. Parts pricing will be governed by the most current price list provided by Dynatest during the course of the contract.

Should you have any questions concerning this quotation please feel free to call me at +1 734-729-0400 or email at [fholt@dynatest.com](mailto:fholt@dynatest.com).

Best regards,

*DYNATEST CONSULTING, INC.*

A handwritten signature in blue ink, appearing to read "F. Holt".

Frank B. Holt  
Senior Vice President  
Dynatest Consulting Inc.



## 6850 RFT Parts Pricing



The following is a detailed parts list w/pricing for your 6850 RFT. Please note these prices reflect current market rate and are subject to annual adjustment!

NO.	DESCRIPTION	PRICE
<i>B6850MD00003215500AB</i>	<i>6850 Drive Train With Brake Assy</i>	
M1501-012450	Pin Tachometer Drive	\$ 120.75
M3400-002780	Spindle-6800M400 D29	\$ 744.62
M3400-001299	Spindle-6900M400 D59	\$ 1,630.13
M9900-001294	Misc-6900M400 D30	\$ 712.43
M1601-012449	Cap-6800M400S12D19	\$ 543.38
M1601-012432	Cap-6800M400S13D118	\$ 229.43
M0501-012440	Cover-6800M400S14D14	\$ 458.85
M1601-012467	Cap-6800M400S16D58	\$ 115.92
M9901-012468	Spacer-6800M400S18	\$ 72.45
M1501-012441	Axle-Housing	\$ 724.50
M9901-012430	Spacer-6800M400S1D1	\$ 181.13
M9901-012439	Spacer-6800M400S20	\$ 84.53
M1601-012466	Cap-6800M400S21D43	\$ 96.60
M0501-012471	Cover-6800M400S22D67	\$ 362.25
M0101-012437	Arm-6800M400S23D135	\$ 4,858.98
M0501-012469	Retainer-6800M400S24	\$ 137.66
M0201-012438	Spindle-6800M400S25	\$ 262.50
M9901-012485	Spacer-6800M400S26	\$ 144.90
M0501-012486	Shim-6800M400S27D96	\$ 289.80
M0101-012447	Bracket-Spring	\$ 181.13
M0101-012442	Bracket-Spring	\$ 169.05
M9901-012455	Spacer-6800M400S2D3	\$ 125.58
M9501-012433	Nozzle-6800M400S30	\$ 664.13
M9901-012457	Spacer-6800M400S31	\$ 156.98
M9901-012458	Spacer-6800M400S32	\$ 84.53
M9901-012460	Spacer-6800M400S34	\$ 181.13
M9501-012435	Nozzle Standard	\$ 362.25
M0501-012472	Rod-6800M400S37D71	\$ 62.79
M0101-012473	Housing-6800M400S38	\$ 2,697.56
M0501-012477	Pivot-6800M400S39D75	\$ 181.13
M0501-012464	Cup-6800M400S3D4	\$ 38.64
M0101-012483	Bracket Pump Mtg	\$ 301.88
M0501-012481	Plate-6800M400S42D79	\$ 181.13
M0101-012448	Bracket Stop	\$ 205.28
M9901-012482	Spacer-6800M400S4D8	\$ 101.43
M1703-012452	Pulley-6800M400S5D23	\$ 101.43
M6004-012451	Washer-6800M400S6D20	\$ 35.23
M0501-012453	Fork-6800M400S7D24	\$ 483.00
M0501-012480	Pivot-6800M400S8D77	\$ 181.13
M0201-012436	Shaft-6800M400S9D131	\$ 72.45
E3104-165-35	Con-Mil-165-35	\$ 39.01
M0301-003154	Turned-400 X 8 W/90 Degree Ste	\$ 23.63
P4000-002308	Cylinders-FO-17-0.375	\$ 130.78
M3101-001532	Belt-Gear-345L100	\$ 35.71
M1703-003047	Pulleys-Gear-36LH100	\$ 170.52
M3000-63-139	Chain-	\$ 1,263.05
M2300-002167	Bushing-H-1	\$ 19.29
M1703-003050	Pulleys-Gear-44LH100	\$ 221.62
M2301-002175	Bushing P125-9	\$ 4.27
M6003-003102	Thrust Washer TW-126	\$ 3.68
M2301-002174	Bushing P62-8	\$ 1.16
M2301-002173	Bushing P62-4	\$ 0.87
M6003-003103	Spherical SS Washer	\$ 22.53
M7100-002557	Seals-1850	\$ 11.11
M1401-001519	Bearing-Ball-QJ215	\$ 712.64
M6004-003099	Fasteners-Lwash-W-09	\$ 0.96
M6001-003039	Fasteners-Nut-NO9	\$ 5.04
M6001-003041	Fasteners-Nut-NT09	\$ 8.42
M1401-33KDD5	Bearing-Ball-33KDD5	\$ 23.78
M9901-003095	Axle-Vent 003095	\$ 5.10
M6001-003048	Fasteners-Nut-358501	\$ 1.11
M2000-002882	Stud-3910340	\$ 1.95
M1401-001526	Bearing-Ball-SB22209W33	\$ 277.57
M1401-001525	Bearing-Ball-SB22206KW33	\$ 216.83
M3000-002527	Chain-464205	\$ 20.25
M6004-003100	Lock Washer WT-09	\$ 6.45
M2300-002170	Bushing-SNW06X15/16	\$ 32.05

## 6850 RFT Parts Pricing

M7100-002553	Seals-472492	\$	11.77
M7100-002554	Seals-473214	\$	25.00
M7100-002552	Seals-472164	\$	13.57
M9500-003055	Water Sys-N11510505	\$	2,004.93
M1401-001521	Bearing-Ball- 6309-2RS	\$	132.22
M2401-007897	Compression Spring	\$	12.58
M2101-002540	Rod-AR-8N	\$	70.30
M1401-001522	Bearing-Ball-15100	\$	34.29
M1401-001523	Bearing-Ball-15125	\$	34.52
M1401-001524	Bearing-Ball-15245	\$	10.43
M2401-007983	Ball Plunger SSM-58	\$	13.36
E9400-002541	Clutch 5208-62	\$	636.23
M6001-NT-05	Fasteners-Nut-NT-05	\$	4.16
M6004-003098	Lock Washer WT-05	\$	2.30
M6001-003043	Fasteners-Nut-AN-15	\$	22.85
M6004-003101	Lock Washer W-15	\$	2.64
M6003-003104	Fasteners-Wash-Boston 18824	\$	18.51
M2601-031122	Detail-Adapter-6810	\$	71.48
<b>B6810MD00012462500AA</b>			
<b>Differential Alteration Assy</b>			
M0001-012462	Differential Alteration	\$	579.60
M1501-002450	Axle-Bearing-Ball-Differential	\$	769.18
<b>B6810MD00012431500AA</b>			
<b>Coupling Lordco Assy</b>			
M9900-002569	Misc-5K1947-Coupling 3/16	\$	47.58
M9900-012431	Alter Coupling Lordco	\$	36.23
<b>B6810MD00012465500AA</b>			
<b>Nipple Alteration</b>			
M9501-012465	Nipple Alteration	\$	38.64
M9504-002997	Fit-SS-Nipple-1 1/4	\$	30.41
D0210-030000	Encoder-755A1550150QPU1SSN	\$	481.79
M9504-031408	1.25NPTX15" SS Thread One End	\$	38.49
M6002-002484	5/16 Eye Bolts	\$	12.38
M3300-001295	Sprocket-6800M400 D141	\$	422.63
M3300-001296	Sprocket-6900M400 D31	\$	905.63
M3300-018227	Sprocket-Alter 18226	\$	374.33
M3300-001297	Sprocket-6800M400 D38	\$	603.75
M1401-031496	Roller Bearing 25590 Timken	\$	30.91
M1401-031497	Bearing Race 25523 Timken	\$	26.88
M7100-031398	42340 CR Seal 6850 Drive Train	\$	35.99
<b>B6850MD0013990500AB</b>			
<b>Left Brake Assembly 6850</b>			
M1501-031319	Wagner Brake Shoes	\$	39.22
M1501-031320	Motor-Mite Anchor	\$	2.64
M1501-031321	Carlson Return Spring	\$	20.62
M1501-031322	Con-Seal Wheel Cylinder L	\$	18.62
M1501-031324	Carlson Push Rod H1414	\$	10.68
M1501-031325	Carlson Strut Spring H1338	\$	2.17
M1501-031326	Carlson Guide H2090	\$	3.02
M1501-031327	Carlson Cable H2107-2	\$	5.85
M1501-031328	Carlson Pin Shoe Hold H1107-2	\$	2.19
M1501-031329	Carlson Cup Sprng Hold H1133-2	\$	2.44
M1501-031330	Carlson Retainer H1177	\$	1.19
M1501-031331	Carlson Adjuster Lever H2035L	\$	6.76
M1501-031333	Carlson Adjuster H1520 L	\$	16.52
M1501-031335	Carlson Spring H412	\$	3.27
M1501-031336	UDR BD60347	\$	104.40
M1501-031306	Axle Shaft 2676214X	\$	709.41
M1501-031308	Backing Plate Assy 4402L	\$	266.50
M1501-031310	Strut #7- 4411	\$	125.58
M2200-002161	Park Brake Lever L	\$	28.01
M1501-031494	Compression Spring 6850 Shoe	\$	2.15
<b>B6850MD0013990500AC</b>			
<b>Right Brake Assembly 6850</b>			
M1501-031319	Wagner Brake Shoes	\$	39.22
M1501-031320	Motor-Mite Anchor	\$	2.64
M1501-031321	Carlson Return Spring	\$	20.62
M1501-031324	Carlson Push Rod H1414	\$	18.62
M1501-031325	Carlson Strut Spring H1338	\$	10.68
M1501-031326	Carlson Guide H2090	\$	2.17
M1501-031327	Carlson Cable H2107-2	\$	3.02
M1501-031328	Carlson Pin Shoe Hold H1107-2	\$	5.85
M1501-031329	Carlson Cup Sprng Hold H1133-2	\$	2.19
M1501-031330	Carlson Retainer H1177	\$	2.44
M1501-031331	Carlson Adjuster Lever H2035L	\$	1.19
M1501-031335	Carlson Spring H412	\$	6.76
M1501-031336	UDR BD60347	\$	16.52
M1501-031305	Axle Shaft 2676228X	\$	3.27
M1501-031310	Strut #7- 4411	\$	104.40
M1501-031323	Con-Seal Wheel Cylinder R	\$	709.41

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M1501-031334	Carlson Adjuster R H1521	\$	266.50
M1501-031311	Parking Brake Lever 4413R	\$	125.58
M1501-031309	Backing Plate Assy. 4402R	\$	28.01
M1501-031494	Compression Spring 6850 Shoe	\$	2.15
<b>B6875MT00003216500AB</b>	<b>New M6800 Transducer w/Core Fee</b>	\$	22,575.00
<b>B6800MT00003216R00AB</b>	<b>Rebuilt M6800 Transducer w/Core Fee</b>	\$	12,705.00
<b>Core fee of \$2,500.00 can be credited with the trade-in of an old transducer core against the purchase of a new or rebuilt unit.</b>			
<b>N/A</b>	<b>Rebuild Chicago Owned Transducer</b>	\$	10,080.00
<b>If you send in your own unit to be rebuilt and returned a core fee does not apply. Lead Time Approx. 8-10 weeks</b>			
<b>B6850MD00013990500AA</b>	<b>6850 Axle Assembly</b>		
M2200-013978	Bracket-Arm	\$	60.38
M2200-013983	Bracket-6800M500S8D7	\$	67.62
M6501-013993	Plates-Spring-Pad	\$	108.68
M1501-031307	Axle Housing 044CH124X	\$	1,340.68
M0101-013990	Axle Dana 44 Sol2143	\$	1,680.00
<b>B6810MD00014003500AA</b>	<b>6810 Lift</b>		
M0701-013969	Weights-Basket-Trailer	\$	1,183.35
M0000-014000	Cassy-Bridge	\$	1,207.50
M1501-013998	Axle-Control Arm-Support	\$	157.28
M2200-013988	Bracket-Left	\$	102.06
M1501-013989	Axle- Control Arm	\$	120.75
M2200-013982	Bracket-Support	\$	28.98
M6501-013985	Plates-Tapping	\$	48.86
M2200-013986	Bracket-Clevis	\$	181.13
M1600-014012	Covers/Caps-Cover	\$	120.75
M1200-013973	Brake-Cable-Passenger	\$	108.68
M1200-013974	Brake-Cable-Driver	\$	108.68
M2200-013975	Bracket-Air-Compressor	\$	286.98
M2200-013976	Bracket-Cylinder	\$	301.88
M2200-013967	Bracket-Shock-Mount	\$	207.69
M1800-013968	Shims-Adapter	\$	753.36
M0101-013980	Arm-6800M500S9D20	\$	108.68
M6501-013981	Plates-Pad	\$	120.75
M1800-013991	Shims-Spring-Rear	\$	193.46
M2200-013992	Bracket-Pump-Mounting	\$	67.62
M2504-013994	Hold Down-Clamp-Spring	\$	72.45
M2200-013995	Bracket-Right	\$	102.06
M9901-013996	Rear Spring Spacer	\$	188.21
M1800-013999	Shims-Right	\$	100.03
M1800-013987	Shims-Left	\$	194.26
M2400-008567	Spring-Rev A	\$	603.75
M6501-001517	Plates-VAS1	\$	66.44
M2200-69195	Bracket-69195	\$	109.21
M2101-002534	Rod-50940	\$	66.24
M6009-68368	Fasteners-Pin-68368	\$	18.07
M1500-002829	Axle-Shocks-MA-730	\$	149.23
M3201-014001	Axle-Shocks-54575	\$	174.39
M2000-5204272	Stud-5204272	\$	5.46
M0701-014002	Weights-Trailer-3 1/2x6x2	\$	64.60
M2101-002647	Rod End AM-10-Z	\$	92.83
M6001-003015	Nut-Wheel-003015	\$	1.02
M2200-013983	Bracket-6800M500S8D7 REF	\$	67.62
M6501-013993	Plates-Spring-Pad	\$	108.68
M9900-002291	Misc-664228-CAD. Plated	\$	28.50
<b>B6810MD00016406500AA</b>	<b>6810 Enclosure</b>		
M4100-016391	Enc-Fiberglass	\$	912.87
M4100-016384	6810 Enclosure SS Hinge Altera	\$	52.28
M6501-016392	Plates-Mount-Shock	\$	57.21
M4100-016393	Enc-Top	\$	567.53
M3200-016394	Shocks-Mount	\$	65.74
M4100-016395	Enc-Front	\$	519.23
M4100-016398	Enc-Standoff	\$	72.45
M4100-016399	Enc-Spacer	\$	36.23
M3200-002827	Shocks-GHS22-030-I	\$	45.72
M2503-002932	Hold Down-Latch-E8-10-502-20	\$	24.14
M4100-016385	SS Butt Hinge 7000401225	\$	18.42
<b>B6850MD00016330500AA</b>	<b>150 Gallon Tank 6850</b>		
M9500-016338	WaterSys-Filler-Neck	\$	138.94
M9504-002600	Fit-ST-Flange 1 1/4	\$	21.30
M9504-003286	Fit-SS-Tee-1 1/4	\$	23.51
H1001-003094	Valve-Check-300-1 1/4	\$	75.50

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M2400-002866	Spring-C0600-063-2500S	\$	32.84
M9504-002997	Fit-SS-Nipple-1 1/4	\$	32.24
E3119-002577	Muskin Water Fill Fitting	\$	41.06
P1000-003074	Valves-70-106-01	\$	92.06
E6000-031273	Water Gage 6850-15066-XM-800	\$	758.63
M9000-031260	Tank-Water-150 Gal	\$	2,584.05
M2601-031277	Water Gage Adapter	\$	120.75
M9504-031407	1-1/4 NPT Stainless Pipe Plug	\$	8.40
M9504-002996	Fit-SS-Nipple-1 1/4-Clos	\$	5.90
M9504-002478	Fit-SS-Elbo-1 1/4x45	\$	15.36
M9504-031403	Nipple-Pipe-SS-1-1/4 X 6"	\$	23.00
E3100-002043	Con-03-06-1041	\$	2.44
E3102-002033	Con-D Sub-02-06-5135	\$	1.49
M9505-031489	Water Filter 6850-SS Screen	\$	16.91
<b>B6850MD68501001500AA</b>	<b>6850 Mechanical General</b>		
T0600-002316	Sockets-3000	\$	28.89
M9900-002325	Misc-HBCP	\$	4.98
CD800-002485	Fire Extinguish#5 10800-2231-1	\$	159.60
M1600-020902	15" Spare Tire Cover BLK	\$	26.03
D0104-007510	Assy-Roll Bar-6800M10055D10/56	\$	2,968.04
P7000-031348	Pressure-Gage-0-100psi	\$	27.17
H1000-003087	1/4 Air Chuck 6146A23	\$	5.91
D9902-031292	Misc-USB Flash Drive-Mini	\$	20.67
E6301-002636	Fuse-2AG-SB-MDL-20	\$	6.80
E6300-002640	Fuse-SC-60	\$	19.80
E6302-002633	Fuse-3AG-FB-AGC-20	\$	0.65
M1100-003276	E-1551 ASTM Runway Test Tire-Spare	\$	289.89
M1101-002491	Split 4.0x8.0TireRim	\$	151.20
M0301-003154	4X8 W/90 Degree Stem Tube	\$	23.63
<b>B6810HD00016618500AA</b>	<b>6810 Hydraulic/Pneumatic</b>		
P0102-002548	Compressors-PSI-315CDC45/12V	\$	361.28
P9900-002589	Misc-P1C-100-M1AA	\$	146.13
P7000-002628	Pressure Gages-LZ100-25RC	\$	21.49
M9000-225906	Tank-225906	\$	258.05
P6000-002229	Pressure Switches-836C7J	\$	507.05
M9900-002965	Misc-70371/ASP-1	\$	2.66
P1000-003082	Valves-11SAD44E-12V	\$	421.84
D0601-001864	Cable-Gin-230-215A	\$	50.48
H1001-018612	Valve-Check-C-200B	\$	53.34
H0100-003054	Pump-108AMS32-CLL-1V-20-10-Y	\$	1,265.12
H1000-003090	Valve-F-400B	\$	70.83
M9500-002823	6810-Hydraulic Hose w/fittings	\$	34.32
E6012-007869	Switch-Cylinder-1.5BB2HLTVS14A	\$	1,798.43
P1000-003088	Pneumatic Filler 3088	\$	12.86
P1000-002320	Sockets-3100	\$	21.17
E6014-002274	Switch Limit EE210-31340	\$	623.07
E6014-002275	Switch Limit EE210-38740	\$	623.07
<b>B6850MD00031111500AA</b>	<b>6850 Laptop Mounting</b>		
M4102-031111	Enc-Steel-LapTop	\$	446.78
M0100-010135	Cassy-Base-305	\$	49.65
M2200-018897	Bracket-Keyboard-Mounting	\$	193.20
<b>B6810MD00016575500AA</b>	<b>6810 Controls 2 Mechanical</b>		
M2200-002767	Bracket-BussStrip	\$	72.45
M4100-002766	Con-Bus-Bar-2766	\$	72.45
M4100-008122	Enc-A-1412NF	\$	323.89
M4200-004257	Enclosure Panel-A-14P12	\$	35.06
<b>B6850EV9850E106500AA</b>	<b>6850 Vehicle Wiring</b>		
E6302-002633	Fuse-3AG-FB-AGC-20	\$	0.63
E6300-002638	Fuse-SC-20	\$	5.82
E6300-002640	Fuse-SC-60	\$	19.80
E6305-002654	Fuse-Block-S-8202-12	\$	21.98
E6305-005179	Fuse-Block-G30060-1CR	\$	45.16
E3116-003128	Con-BusBar-9-141	\$	10.68
E3116-003129	Con-BusBar-MS-9-141	\$	3.72
E3100-001929	Con-DB25-S	\$	10.89
E6101-031286	Relay-T81H5D312-05	\$	3.86
E6101-004622	Relay-70-914	\$	60.00
E6004-002239	Switch-Tog-8280K127C	\$	18.25
E1001-001431	Diode-GPIN4004	\$	0.24
E3104-001890	Con-MII-165-36-1003	\$	165.78
E3112-002048	Con-D Sub-002048	\$	0.34
E3103-002046	Con-D Sub-03-09-1041-4 Pln	\$	0.29
E3100-15-31-1023	Con-15-31-1023	\$	0.34
E3102-15-31-1022	Con-D Sub-15-31-1022-2 Pins	\$	0.62
E3100-001978	Con-3414-6034	\$	7.29

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E3117-002138	Con-Strain Relief-2521-1/2	\$	12.86
E6304-002644	Fuse-Link-D3AZ-14526-T	\$	35.91
E4201-031452	Tripp-Lite Inverter APS-750	\$	714.69
E4001-003425	Battery-Diehard Marine GRP 24M	\$	213.34
M1600-003426	Battery Box 7080	\$	19.13
E3119-ISOBAR6-6	ISOBAR 6-6 Surge Supp	\$	135.24
M2200-031343	GoLight Model 2021	\$	308.14
E9100-031349	DSB-4H USB 4-Port Hub	\$	58.09
E3100-001650	Con-207345-1	\$	5.88
E3100-002040	Con-02-09-2118	\$	0.37
E3116-002038	Con-BusBar-02-09-1118	\$	0.43
E3113-2-COND.1/8	Conn.Phono1/8-2con.	\$	9.64
E6305-002645	Fuse-Block-155020A	\$	7.15
D0604-4531-48	Cable-BNC-4531 48	\$	51.18
M9900-031409	Control Box-GoLight	\$	241.50
E6302-031456	Fuse-ATC-40 amp	\$	1.35
E6304-031501	ATC Waterproof Fuse Holder	\$	4.10
<b>B6850EV9800E104500AA</b>			
<b>6850 Display Module</b>			
M4200-007529	Enc Panel-9800M204S2D1 (G7)	\$	86.94
M4100-007530	Enc-9800M204S2D2	\$	176.30
M0501-007531	Sheet Metal-9800M204S2D3 (G7)	\$	60.38
E6001-010072	Switch-Slide-MTA106D	\$	4.61
M6501-002678	Plates-SPA-32	\$	3.16
E7001-002926	Lamp-Inc-507-3913-1472-600	\$	25.20
E7001-002927	Lamp-Inc-507-3913-1473-600	\$	7.61
E7001-002925	Lamp-Inc-507-3913-1471-600	\$	6.28
E7000-002930	Lamp-508-7538-504	\$	19.26
E7205-002960	Disp-Meter-BL331302-01	\$	240.35
E7205-002961	Disp-Meter-BGE-30-150-0	\$	236.67
E0109-002736	Res-Pot-10K-01F85586	\$	11.23
E0101-000565	Res-RN55D4752F	\$	0.24
E0101-000475	Res-RN55D1002F	\$	0.24
E0101-000584	Res-RN55D6982F	\$	0.13
E0101-000336	Res-1.K,1%,1/10.W.MF	\$	0.14
E3100-001557	Con-H4M25ST29C	\$	9.98
E1001-001430	Diode-GP	\$	0.05
E3108-003116	Con-Terminal-30.252	\$	1.41
E3108-003117	Con-Terminal-30.253	\$	1.98
E3111-031120	Con-Pwr-Molex2695	\$	0.54
E3109-031119	Terminal-Molex2759	\$	0.10
E7401-007655	PC Board 090491	\$	42.20
E6101-031286	Relay-T81H5D312-05	\$	3.86
<b>B6810MD00003214500AA</b>			
<b>6810 Operator Pendant</b>			
E7406-001538	Boards-Multidisp-Ctl	\$	114.45
M6000-022643	Fastener, Retainer 022643	\$	19.32
M4104-022642	Operator Pendant Enclosure-Altered	\$	56.04
E6001-002198	46-150BLK Push Button Switch	\$	31.58
E6001-002205	SWITCH-PB 82-101-71	\$	9.87
E3104-001883	Con-Mil-165-13	\$	143.08
M4102-002123	Enc-1590ABK-2123	\$	22.65
E7418-001776	Boards-Boot-9779-513-6	\$	1.64
<b>B6810MD68001008500AA</b>			
<b>6810 Load Leveler</b>			
M0601-016616	Mod Box6810 LoadLev	\$	60.38
M0501-016617	Manifold Block	\$	48.30
P7000-6X114	Pressure Gage 6X114	\$	14.42
P1000-003088	Pneumatic Filler 3088	\$	11.81
M4302-002370	Label-Nam-30-5632-13	\$	0.63
E6004-002239	Switch-Tog-8280K127C	\$	18.25
M4102-002123	Enc-1590ABK-2123	\$	22.65
<b>B6810ED00003190500AA</b>			
<b>Temperature Sensor Assembly</b>			
D0105-070197	Assy-Board-PC070197	\$	68.64
E0101-000475	Res-RN55D1002F	\$	0.15
E0101-RN55D2003F	RES-MF-200K-1	\$	0.24
E0201-C330C155MSU5CA	CAP-ELE-1.5UF-50V-10%	\$	0.80
E0203-CM04FD101F03	CAP-MIC-100PF-500V	\$	3.57
E0203-CW20C104M	CAP-CER-0.1MF-50V-20%	\$	0.58
E1201-000282	ICA-594AD-AD-Thermo	\$	63.76
E2000-308AN-LM	ICD-308AN-LM	\$	18.76
E3117-002138	Con-Strain Relief-2521-1/2	\$	12.86
E9101-003157	Sensor-Temp-XC-20-J-12	\$	48.32
H5400-002505	Oring-STG50	\$	1.74
M4102-002127	Enc-Bud-002127	\$	10.03
M6001-BL-50	Fasteners-Nut-BL-50	\$	0.71

**Dynatest Anticipated Cost Over 5 Years – New Contract**

The total cost of the contract is estimated at \$155,726 over five (5) years, based on the Base Year annual cost plus 3% escalation on calibration and labor costs. Shipping, repair parts, and vendor travel costs shall be based on actual expenditures, subject to City-approved limits for vendor travel, food and lodging expenses. Damage Contingency is provided as an estimate and is not anticipated to increase over the contract term.

Base Year annual cost is calculated as follows:

<u>Item</u>	<u>Unit Cost</u>	<u>Units</u>	<u>Quantity</u>	<u>Total</u>
RFT calibration	\$1,000.00	Each	5	\$5,000.00
Travel labor and shop/field repair labor	\$110.00	Per hour	48	\$5,280.00
Training labor	\$1,400.00	Per day	3	\$4,200.00
Calibration equipment shipping	\$1,600.00	Direct cost	1	\$1,600.00
Per diem food	\$60.00	Direct cost	2	\$120.00
Per diem hotel	\$225.00	Direct cost	2	\$450.00
Transportation/flight	\$600.00	Direct cost	1	\$600.00
Repair parts <sup>1</sup>	\$600.00	Per vehicle	5	\$3,000.00
Damage Contingency <sup>2</sup>	\$10,000.00	Each	1	\$10,000.00
<b>Total (Annual – Base Year)</b>				<b>\$30,250.00</b>

Notes:

1. It is unlikely that all five units will require all of the possible repair parts. The Airport will only be billed for parts required and installed.
2. Damage contingency was estimated based on the unlikely event that one transducer (the most expensive unit component at approximately \$8,000) would need to be replaced due to damage each year, in addition to other miscellaneous items.

Estimated cost by fiscal year is as follows:

<u>Estimated Cost by Fiscal Year</u>				
<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
\$30,250.00	\$30,684.40	\$31,131.83	\$31,592.69	\$32,067.37

The estimated labor rate for travel and repair is as follows:

<u>Hourly Labor Rate by Fiscal Year</u>				
<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
\$110.00	\$113.30	\$116.70	\$120.20	\$123.81