PRO-TECH DIVERSIFIED SERVICES, INC.

INDEPENDENT TESTING & BALANCING

SUBMITTAL DATA

8267 Causeway Blvd Suite F
Tampa, Florida 33619-6520
Phone: 813-621-5888
Toll Free: 877-621-5888
Fax: 813-621-5885
www.protechbalance.com

INDEX

National Environmental Balancing Bureau

Recertification

THIS IS TO CERTIFY THAT

Pro-Tech Diversified Services, Inc.

in Tampa, FL

HAS MET ALL REQUIREMENTS FOR RENEWAL OF NEBB CERTIFICATION IN THE FOLLOWING DISCIPLINE

Air & Hydronics Systems

FOR THE BOARD OF DIRECTORS:

Exp. March 31, 2012

Pro-Tech Diversified Services, Inc./FL

No. 3246

NEBB Cert. No.

John B Stevenson

President

Stephen R. Weggeman

President-Elect

QUALIFICATIONS FOR PRO-TECH DIVERSIFIED SERVICES, INC.

Pro-Tech Diversified Services, Inc was founded in 1999 by Gary A. Cummings as an independent HVAC testing and balancing company. Since our inception, we have taken great pride in offering our clients a proficient and professional service. We strive to work closely with our clients to ensure that each project is adequately manned and completed in a timely manner, without compromising the integrity of the service we provide.

As members of the National Environmental Balancing Bureau, we are confident that our knowledge, experience and competency in the field of testing and balancing meets or exceeds the standards set forth by NEBB. Our procedures, equipment and forms comply with the 2005 Seventh Edition of the Procedural Standards for Testing, Adjusting and Balancing of Environmental Systems published by the National Environmental Balancing Bureau.

Our lead technicians have completed extensive training and passed the required exams to obtain Certified Technician status from NEBB. With an average work experience of 15 years, we believe our technicians have the ability to provide the experience needed for today's complex systems.

While we are confident our Certified Technicians have the necessary experience and skills to manage any project they are tasked with, we supervise each project with NEBB Certified Professionals. The supervisors have many years experience and have passed the required exams by NEBB to obtain the Certified Professional status. The responsibility of the supervisor in the field is to ensure that a consistent level of high quality is maintained, assess manpower requirements, and ensure the projects are completed in a timely manner. Other duties include plan review, report setup, project scheduling, and final report review.

Acknowledging the growing trend toward LEED certified projects, Green Buildings and the concern for our environment, Pro-Tech Diversified Services, Inc. is taking the lead in implementing today's technology to benefit the environment. In December 2007, we revolutionized our reporting procedures to eliminate waste and increase our efficiency by transitioning to paperless reporting. We now have the ability to provide our reports electronically. The data is recorded daily by the technicians on the project and transmitted to our server via the internet. Our clients are provided with online access to their projects so they can see up-to-date data as the project progresses. Once the project is complete, the report is compiled, reviewed, certified and sent electronically to our clients. We have also maintained the ability to produce hardbound paper reports for those who request them.

MAJOR PROJECTS COMPLETED 2009

Darden Restaurants-Orlando, Florida

This $152,000,000 project was completed in 2009 and is the new headquarters for the Darden Restaurant Group. Darden restaurants include Red Lobster, Olive Garden, Longhorn Steakhouse, Bahama Breeze, among others. The two-story, 465,000 square foot project included office space, data center, retail shops, 6 test kitchens, fitness center and dry cleaners. The HVAC systems consisted of 3 chillers, 2 pumps, 41 air-handling units, 550 variable air volume terminal units, 150 exhaust fans, and over 3100 air devices, and were designed by Tilden, Lobnitz and Cooper Engineers.

Florida Hospital-Orlando, Florida

This $255,000,000 project was completed in 2009. The 675,000 square foot facility expansion consisted on a 15 story tower addition, making it the tallest hospital building in Florida. The Ginsburg Tower is home to one of the largest cardiac departments in the country. The addition was constructed by Brasfield & Gorrie General Contractors. The HVAC systems consisted of 26 air handling units, 780 constant volume terminal units, 62 exhaust fans, over 2400 air devices, and were designed by Tilden, Lobnitz and Cooper Engineers.

Halifax Medical Center-Daytona Beach, Florida

This 555,000 square foot project consisted of a 10-story tower addition to the existing facility. The World Class medical facility has the largest Emergency Department in the state of Florida, an expansive 89,000 square feet. The hospital is home to the area's only Level II Trauma Center. The new tower has been named the "France Tower" in recognition of the France family's contribution. The project was designed by Perkins & Will Architects and constructed by Robins & Morton. The HVAC systems consisted of 22 air handling units, 37 exhaust fans, 4 heat exchangers, 596 constant volume terminal units, 4 pumps, 94 fan coil units, 639 hot water coils, 3110 air devices, and were designed by Tilden, Lobnitz and Cooper Engineers.

UCF Bio Science Facility-Lake Nona, Florida

Construction of the Burnett Biomedical Sciences Building began in May of 2007 and the 198,000 square-foot building was completed in 2009. The new facility is the first phase of the Lake Nona Campus construction project. The project was constructed by Whiting-Turner. The HVAC systems consisted of 15 air handling units, 581 variable air volume terminal units, 21 exhaust fans, 2 chillers, 10 hydronic pumps, 47 fume hoods, over 1000 air devices, and were designed by Newcomb and Boyd Consulting Engineering Group.

MAJOR PROJECTS COMPLETED

Raytheon-Largo, Florida

This project encompasses approximately 225,000 square feet of an existing building and was completed in the spring of 2008. The project includes both new and existing HVAC equipment with Trane DDC controls. The facility will allow for the relocation of the defense contractor's engineering division.

University Corporate Center III–Orlando, Florida

This multi-story office building was completed in 2007. The project consisted of 6 central station air handing units, serving both variable volume and fan powered terminal units, utilizing a Trane DDC energy management system. The HVAC systems were designed by Pyramid Engineering, Inc.

Florida Hospital-Altamonte Springs, Florida

This multi-story Patient Tower addition was completed in 2007. The project consisted of a multi story addition to an existing hospital. It included a new emergency department, patient care rooms, procedure rooms and a new pediatric intensive care suite. The HVAC systems were controlled utilizing a Johnson Controls DDC system. The HVAC systems were designed by Tilden, Lobnitz and Cooper Engineering.

Halifax Medical Center-Port Orange, Florida

This 5-story medical office building was converted to provide an emergency department, procedure rooms, laboratory, and patient care rooms. The project consisted of a total replacement of the chilled water Air Handling Units and most of the existing duct systems. The HVAC systems were controlled by a Siemens DDC system. The project was designed by Tilden, Lobnitz and Cooper Engineering and was completed in 2006.

Memorial Medical Park – Bunnell, Florida

This project was completed in 2002 and consisted of a total replacement hospital for Flagler County. The 2-story facility included 80 patient care rooms, 4 operating suites, a blood laboratory, a pain management center, a fitness center, a cafeteria, and a medical office building. The HVAC systems consisted of water-cooled chillers, cooling towers, constant volume terminal boxes and a Johnson Controls DDC energy management system. The HVAC systems were designed by Tilden, Lobnitz and Cooper Engineers.

VARIOUS ONGOING AND COMPLETED PROJECTS

Healthcare

Florida Hospital – Altamonte Springs, Florida

Florida Hospital – Orlando, Florida

Memorial Medical Park – Bunnell, Florida

Memorial Hospital – Tampa, Florida

Capital Regional Medical Center – Tallahassee, Florida

Fawcett Memorial Hospital – Port Charlotte, Florida

Halifax Medical Center – Port Orange, Florida

Orange Park Medical Center – Orange Park, Florida

Lake City Medical Center – Lake City, Florida

Bayonet Point Hospital – Hudson, Florida

Central Florida Regional Hospital – Sanford, Florida

Oak Hill Hospital – Springhill, Florida

Halifax Medical Center – Daytona Beach, Florida

22nd Street Health Clinic, Tampa, Florida

Sand Lake Hospital – Orlando, Florida

Dialysis Facility Relocation – Bradenton, Florida

South Bay Hospital – Sun City, Florida

United Health Group – Tampa, Florida

Palms West Regional Ambulatory Surgery Center – Village Of Royal Palm Beach, Florida

Florida Eye Clinic – Zephyrhills, Florida

Good Shepard Hospice – Lakeland, Florida

Pinellas County Medical Examiner's Office – Clearwater, Florida

Stemnion, Inc. – Clearwater, Florida

Stemnion, Inc. – Pittsburg, Pennsylvania

James A. Haley VA Hospital – Tampa, Florida

Education

Kenly Elementary School – Tampa, Florida

Lawton Chiles Middle School – Lakeland, Florida

Yearling Middle School – Okeechobee, Florida

Hillsborough Community College Student Services – Tampa, Florida

Classroom for Kids – Tampa, Florida

Hilda T. Turner Elementary School – Tampa, Florida

VARIOUS ONGOING AND COMPLETED PROJECTS

Education (Continued)

Nancy Bartels Middle School – Tampa, Florida

All Saints Academy – Winter Haven, Florida

Plant City High School – Plant City, Florida

Hardee County New K-8th – Wachula, Florida

Mitchell Elementary School – Tampa, Florida

Jessie P. Miller Elementary School – Bradenton, Florida

Ruskin Elementary School – Ruskin, Florida

Lopez Elementary – Tampa, Florida

Okeechobee High School Renovation – Okeechobee, Florida

University of Phoenix – Tampa, Florida

St. Petersburg Junior College at ICOT Center – Clearwater, Florida

Manatee High School – Bradenton, Florida

Manatee Elementary School – Bradenton, Florida

Apollo Beach Elementary School – Apollo Beach, Florida

Rowland Park K-8 – Tampa, Florida

Dowdell Middle School – Tampa, Florida

Mango Elementary School – Seffner, Florida

University of South Florida Dr. Kiran Patel Center – Tampa, Florida

Retail

Kash N' Karry Store – Fishhawk Ranch – Valrico, Florida

Kash N' Karry Store #1909 - Tampa, Florida

Kash N' Karry Store #1910 – Orlando, Florida

Kash N' Karry Store #1913 – New Port Richey, Florida

Kash N' Karry Store #1774 – Homosassa, Florida

Dew Cadillac – Pinellas Park, Florida

Bealls – South Venice Beach, Florida

Bealls – Orlando, Florida

Lokey Automotive – Clearwater,Florida

Altamonte Ale House – Orlando, Florida

Cross Country Automotive – Sebring, Florida

Kash N' Karry Store #1765 – Palmetto, Florida

VARIOUS ONGOING AND COMPLETED PROJECTS

Retail Continued

Kash N' Karry Store #1855 – Sarasota, Florida

Walgreens Store – Englewood, Florida

Volvo of Orlando – Orlando, Florida

Verizon Wireless – Lakeland, Florida

Kohl's – Tampa, Florida

Kohl's – Brandon, Florida

Hillsboro Printing – Tampa, Florida

Walgreens Store – Largo, Florida

Walgreens Store – Tampa, Florida

Strunk Ace Hardware – Key West, Florida

Circuit City – Sarasota, Florida

Ft. Myers Toyota – Ft. Myers, Florida

Sears Product Center – Largo, Florida

Sweetbay Store – Dunedin, Florida

Sweetbay Store – Ft. Myers, Florida

Watermark Apartments – Tampa, Florida

Best Buy – Tampa, Florida

Five Guys – Tampa, Brooksville, Ocala, Florida

Darden Restaurants Support and Data Center – Orlando, Florida

Municipal/Government

City of Tampa WWTP – Tampa, Florida

Mahaffey Theater – St. Petersburg, Florida

Jordan Park Museum – St. Petersburg, Florida

Supervisor of Elections – Tampa, Florida

Fire Station #2 – Lakeland, Florida

Pinellas Park Public Library – Pinellas Park, Florida

Tampa International Airport – Tampa, Florida

Highlands County Courthouse – Highlands County, Florida

Zolfo Springs Police/Fire – Zolfo Springs, Florida

Supervisor of Elections – Largo, Florida

Orient Road Jail – Tampa, Florida

United States Postal Service PD&C – Tampa, Florida

VARIOUS ONGOING AND COMPLETED PROJECTS

Municipal / Government Continued

Pinellas County Job Corp – Clearwater, Florida

Winter Haven Fire Safety Complex – Winter Haven, Florida

St. Petersburg / Clearwater Airport – St. Petersburg, Florida

SRI International Facility – St. Petersburg, Florida

SOCCENT Headquarters Facility – MacDill AFB, Florida

Office Buildings

OPUS South – Office Building – Maitland, Florida

Washington Mutual – Oldsmar, Florida

WFS Financial (Net Park) – Tampa, Florida

Community Bank of Naples, Naples, Florida

Bovis – Tampa, Florida

Financial Center for MacDill Federal Credit Union – Brandon, Florida

Paine Webber – Orlando, Florida

Paine Webber – Sarasota, Florida

Bank of America – Sarasota, Florida

Southtrust Bank – Tampa, Florida

1st Union Bank – Citrus Park, Florida

1st Union Bank – Brandon, Florida

Coca-Cola Enterprises – Tampa, Florida

Met Life – One Metro Center – Tampa, Florida

Paine Webber – Panama City, Florida

XO Corporation – Orlando, Florida

Operations Center for MacDill Federal Credit Union – Brandon, Florida

Ariba (International Plaza) – Tampa, Florida

Tropicana Office Building, Sarasota, Florida

Ford Credit – Tampa, Florida

Highland Oaks IV – Tampa, Florida

REFERENCES FOR PRO-TECH DIVERSIFIED SERVICES, INC.

Medical Facilities Construction Group, Inc.
P.O. Box 390247
Deltona, Fl 32739-0247
Contact: Bud Burk
Phone: 386-860-3443
Fax: 386-860-3771
Email: budmfcg@cfl.rr.com

Halifax Medical Center
303 N. Clyde Morris Blvd.
P.O. Box 1990
Daytona Beach, FL 32015
Contact: Jacob G. Nagib
Phone: 904-254-4000
Email: Jacob.nagib@halifax.org

Halifax Medical Center
1041Dunlawton Ave.
Port Orange, Florida 32127
Contact: Joseph Hunter
Phone: 386-254-4191
Fax: 386-947-4623
Email: joe.hunter@halifax.org

Tilden Lobnitz Cooper
1717 S. Orange Avenue
Orlando, Florida 32806
Contacts: Mark Costello or Bob Danner
Phone: 407-841-9050
Fax: 407-540-0234

Florida Hospital – Orlando
1919 North Orange Avenue
Suite D
Orlando, Florida 32804
Contact: Tim Hutching
Phone: 407-303-1153
Fax: 407-303-1163
Email: tim.hutching@flhosp.org

Florida Hospital – Altamonte Springs
1919 North Orange Avenue
Suite D
Orlando, Florida 32804
Contact: Ted Johnson
Phone: 407-303-1154
Fax: 407-303-1163
Email: ted.johnson@flhosp.org

A.J. Sanchez Consulting Engineers, Inc.
3825 Henderson Boulevard
Suite 103
Tampa, Florida 33629
Contact: Al Sanchez
Phone: 813-281-0001
Fax: 813-281-0026
Email: ajsce@tampabay.rr.com

J.A. Green Plumbing & Mechanical Services
602 N. Rome Avenue
Tampa, Florida 33606
Contact: Scot Newman
Phone: 813-251-3233
Fax: 813-251-3208
Email: wsnewman@greenpm.com

Okeechobee County School Board
700 S.W. 2nd Avenue
Okeechobee, Florida 34974
Contact: Dale Barrett
Phone: 863-462-5000
Fax: 863-462-5012

Peninsular Mechanical Contractors, Inc.
13690 Roosevelt Boulevard
Clearwater, Florida 33762
Contact: Jim Spears
Phone: 727-573-4822
Fax: 727-572-0978

Payne Air Conditioning
1048 E. Oleander Street
Lakeland, FL 33801
Contact: John Welsh
Phone: 1-863-686-6163
Fax: 1-863-686-6161

Creative Contractors, Inc.
620 Drew Street
Clearwater, Florida 33755
Contact: Jerry Siminski
Phone: 727-423-0783
Fax: 727-447-4808

Vogel Brothers Building Company
2720 Drane Field Road
Lakeland, Florida 33807
Contact: Drew Broderick
Phone: 863-646-5078
Fax: 863-644-5107

Kenyon & Partners, Inc.
3203 Queen Palm Drive
Tampa, Florida 33619
Contacts: Henry Dilport
Phone: 813-241-6568
Fax: 813-241-6568

GARY A. CUMMINGS

President

As President of Pro-Tech Diversified Services, Inc. and as a National Environmental Balancing Bureau (NEBB) Qualified Supervisor, Mr. Cummings oversees daily operations and performs report review and certification.

Prior to obtaining certification from NEBB, in 1999 Mr. Cummings was certified through the Associated Air Balance Council (AABC) as a test and balance engineer (Certification #99-09-32). Mr. Cummings also holds a Certification of Refrigerant Recovery through the Refrigeration Service Engineers Society (Certification #079203504). Mr. Cummings is also an associate member of the American Society of Heating, Refrigerating, and Air Conditioning Engineers, Inc. (ASHRAE) and is currently serving as a member of the Board of Directors for the Florida chapter of the National Environmental Balancing Bureau.

Prior to transitioning into the test and balance industry in 1992, Mr. Cummings was employed as an HVAC service technician where his duties included the sales, servicing and troubleshooting of HVAC systems. In 1989, Mr. Cummings completed an extensive training course at Tampa Bay Vocational Technical School in HVAC systems design, operation and service. With over 21 years experience in the HVAC industry, Mr. Cummings has had the opportunity to be involved with various projects both at home and abroad.

National Environmental Balancing Bureau

Recertification

THIS IS TO CERTIFY THAT

Gary A. Cummings

with Pro-Tech Diversified Services, Inc. in Tampa, FL

HAS MET ALL THE NEBB REQUIREMENTS FOR
NEBB CERTIFIED PROFESSIONAL STATUS IN

Air & Hydronics Systems

FOR THE BOARD OF DIRECTORS:

Exp. March 31, 2012

Pro-Tech Diversified Services, Inc./FL

No. 3246

NEBB Cert. No.

John B. Stevenson

President

Stephen R. Weggeland

President-Elect

STEVEN W. MULLINS

NEBB Certified Technician

Mr. Mullins entered the test and balance industry in 1990. During his career he has performed in various capacities. Mr. Mullins current responsibilities are project procurement and estimating. Mr. Mullins has had extensive training and experience in HVAC testing and balancing during his 18 years in the industry.

Mr. Mullins project management experience included written documentation and accurate reporting of deficiencies, liaison for contractors, subcontractors, owners and engineers, as well as performing the testing and balancing of the HVAC systems. He also has vast experience in the hospital environment. He has been involved in many hospital renovation projects throughout the State of Florida.

In 1998, Mr. Mullins passed exams administered by the Associated Air Balance Council (AABC) to become a certified technician. Upon employment with Pro-Tech Diversified Services, Inc., Mr. Mullins has improved his resume by passing the required written and practical exams to obtain certification from the National Environmental Balancing Bureau. (NEBB).

NATIONAL ENVIRONMENTAL BALANCING BUREAU

Certificate of Technician Recertification

Steven Mullins

with

Pro-Tech Diversified Services, Inc.

has recertified as a

NEBB Testing, Adjusting and Balancing (TAB) Technician for Air and Hydronic Environmental Systems

John B Stevenson — NEBB President — June 11, 2009 — Date

March 31, 2012 — Expiration Date

Chapter President — 6/21/2009 — Date

Certified Professional's Stamp

ANGELO INTARTAGLIA

NEBB Certified Technician

Mr. Intartaglia began his career in testing and balancing of HVAC systems in 1993. During his 15 years in the industry he obtained technician certification from the Associated Air Balance Council (AABC) and since his employment with Pro-Tech Diversified Services, Inc., he has passed the required written and practical exams to obtain certification from the National Environmental Balancing Bureau (NEBB).

His current responsibilities as the lead technician is performing required tests and balancing of HVAC systems, as well as documentation and accurate reporting of deficiencies within NEBB standards. It also includes working closely with the contractors, subcontractors, owners, and engineers to successfully complete the tasks at hand. His ability to troubleshoot problems and determine the solution certainly makes him a valuable asset to the construction team.

NATIONAL ENVIRONMENTAL BALANCING BUREAU

Certificate of Technician Recertification

Angelo Intartaglia

with

Pro-Tech Diversified Services, Inc.

has recertified as a

NEBB Testing, Adjusting and Balancing (TAB) Technician
for Air and Hydronic Environmental Systems

J M B Stevenson — NEBB President

June 11, 2009 — Date

March 31, 2012 — Expiration Date

6/21/2009 — Date

Pro-Tech Diversified Services, Inc.
NEBB
GARY A. CUMMINGS
CERTIFICATION
3246
Exp. 3/31/12
Air and Hydronic Systems

Certified Professional's Stamp

FRANKLIN JEREZ

NEBB Certified Technician

Mr. Jerez began his career in testing and balancing of HVAC systems in 1993. His experience over the last 15 years has enabled him an opportunity to be proficient in all aspects of testing and balancing.

Mr. Jerez has an extensive background in the pharmaceutical sector. His responsibilities included providing and adjusting for room pressurization, clean room certification and commissioning of HVAC systems. Mr. Jerez has passed the required written and practical exams and is currently certified by National Environmental Balancing Bureau.

His current responsibilities as the lead technician is performing required tests and balancing of HVAC systems, as well as documentation and accurate reporting of deficiencies within NEBB standards. It also includes working closely with the contractors, subcontractors, owners, and engineers to successfully complete the tasks at hand. His ability to troubleshoot problems and determine the solution certainly makes him a valuable asset to the construction team.

NATIONAL ENVIRONMENTAL BALANCING BUREAU

Certificate of Technician Recertification

Franklin Jerez

with

Pro-Tech Diversified Services, Inc.

has recertified as a

NEBB Testing, Adjusting and Balancing (TAB) Technician for Air and Hydronic Environmental Systems

John B Stevenson	June 11, 2009	
NEBB President	Date	
March 31, 2012	6/21/2009	
Expiration Date	Chapter President	Date

Pro-Tech Diversified Services, Inc. NEBB GARY A. CUMMINGS CERTIFICATION 3246 Exp. 3/31/12 Air and Hydronic Systems

Certified Professional's Stamp

RODDY QUINONES

NEBB Technician

Mr. Quinones began his career in testing and balancing of HVAC systems in 1992. In 1994 he obtained an Associates Degree in Engineering of Refrigeration and Air Conditioning. He has also completed periodic OSHA training courses and possesses current 30hr safety certification.

Mr. Quinones extensive career has afforded him the opportunity to gain experience certifying HEPA filters, performance testing of Clean Rooms, and Building Systems Commissioning as well as HVAC Testing & Balancing.

Since his employment began at Pro-Tech Diversified Services, Inc., Mr. Quinones has had the opportunity to assume Lead Technician responsibilities on various projects.

His current responsibilities are performing required tests and balancing of HVAC systems, as well as documentation and accurate reporting of deficiencies within NEBB Standards. Mr. Quinones's attention to accuracy and detail make him one of our most valuable assets.

State of Florida

Department of State

I certify from the records of this office that PRO-TECH DIVERSIFIED SERVICES, INC. is a corporation organized under the laws of the State of Florida, filed on September 30, 1999.

The document number of this corporation is P99000087263.

I further certify that said corporation has paid all fees due this office through December 31, 2011, that its most recent annual report was filed on February 16, 2011, and its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of Florida, at Tallahassee, the Capital, this the Seventeenth day of February, 2011

Secretary of State

Authentication ID: **100194591131-021711-P99000087263**

To authenticate this certificate, visit the following site, enter this ID, and then follow the instructions displayed.
https://efile.sunbiz.org/certauthver.html

Hillsborough County Board of County Commissioners
Economic Development Department
DM/DWBE & SBE Programs Section

Small Business Registration

Pro-Tech Diversified Services, Inc.

HC-0785/10

Valid from April 28, 2010 – April 29, 2012

Approved Lines of Business:

HVAC – TESTING/BALANCING

Brenda Eighmey

Brenda Eighmey,
Small / Minority Business Development Administrator

Hillsborough County
PUBLIC SCHOOLS
Excellence in Education

Hillsborough County Public Schools
Office of Supplier Diversity Registration Certificate

Pro-Tech Diversified Services, Inc
Is registered with Hillsborough County Public Schools
Office of Supplier Diversity as a SBE/WMBE

Registration Expiration Date: **04/29/2012**

Henry J. Ballard, Jr.
Supplier Diversity Officer

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

SXN R045 DATE 06-01-2010

PRODUCER

BROWN & BROWN OF FLORIDA INC/PHS
224605 P:(866)467-8730 F:(877)538-8526
PO BOX 29611
CHARLOTTE NC 28229

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE

INSURED

PRO-TECH DIVERSIFIED SERVICES, INC.
8267 CAUSEWAY BLVD. STE F
TAMPA FL 33619

INSURER A: Hartford Casualty Ins Co
INSURER B: Hartford Underwriters Ins Co
INSURER C:
INSURER D:
INSURER E:

COVERAGES

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. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY [ ] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS MADE [X] OCCUR [X] General Liab GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC	21 SBM RQ8307	05/22/10	05/22/11	EACH OCCURRENCE FIRE DAMAGE (Any one fire) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$2,000,000 $300,000 $10,000 $2,000,000 $4,000,000 $4,000,000
A	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [X] HIRED AUTOS [X] NON-OWNED AUTOS	21 SBM RQ8307	05/22/10	05/22/11	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$2,000,000 $ $ $
	GARAGE LIABILITY [ ] ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	$ $ $
	EXCESS LIABILITY [ ] OCCUR [ ] CLAIMS MADE [ ] DEDUCTIBLE [ ] RETENTION $				EACH OCCURRENCE AGGREGATE	$ $
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	21 WEC EX3154	05/22/10	05/22/11	[X] WC STATU-TORY LIMITS [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $1,000,000 $1,000,000 $1,000,000
	OTHER					

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS

Those usual to the Insured's Operations.

CERTIFICATE HOLDER [X] ADDITIONAL INSURED; INSURER LETTER: A

COMPANY NAME
ADDRESS

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE (10 DAYS FOR NON-PAYMENT) TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

ACORD 25-S (7/97)

SAMPLE REPORT
123 NEBB DRIVE
TAMPA, FLORIDA

CERTIFIED
TEST; ADJUST; BALANCE REPORT

ARCHITECT:

ENGINEER:

CONTRACTOR:

PROJECT # P01

DATE: 1/2/2011

CERTIFICATION

"THE DATA PRESENTED IN THIS REPORT IS A RECORD OF SYSTEM MEASUREMENTS AND FINAL ADJUSTMENTS THAT HAVE BEEN OBTAINED IN ACCORDANCE WITH THE CURRENT EDITION OF THE NEBB *PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS.* ANY VARIANCES FROM DESIGN QUANTITIES, WHICH EXCEED NEBB TOLERANCES, ARE NOTED IN THE TEST-ADJUST-BALANCE REPORT PROJECT SUMMARY."

THE AIR DISTRIBUTION SYSTEMS HAVE BEEN TESTED & BALANCED AND FINAL ADJUSTMENTS HAVE BEEN MADE IN ACCORDANCE WITH NEBB *"PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, BALANCING OF ENVIRONMENTAL SYSTEMS"* AND THE PROJECT SPECIFICATIONS.

THE HYDRONIC DISTRIBUTION SYSTEMS HAVE BEEN TESTED & BALANCED AND FINAL ADJUSTMENTS HAVE BEEN MADE IN ACCORDANCE WITH NEBB *"PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, BALANCING OF ENVIRONMENTAL SYSTEMS"* AND THE PROJECT SPECIFICATIONS.

CERTIFICATION #: **3246**

SUBMITTED & CERTIFIED BY: _____

8267 Causeway Blvd., Suite F
Tampa, Florida 33619-6520
Phone: 813-621-5888
Fax: 813-621-5885
www.protechbalance.com

Table of contents

January 2, 2011

Sample Report

Tampa, Florida

General:

The data contained in this report has been accumulated from the equipment and systems actually installed at the project. The results of our testing and balancing service are documented in the following report. All measurements and procedures follow the 2005-Seventh Edition of the Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems published by the National Environmental Balancing Bureau and are true and correct as of our test date and are within the limits of field error.

Ceiling mounted grilles and registers were measured using a calibrated flow hood or traverse method. Sidewall grilles and registers were measured using a rotating vane anemometer, digital anemometer, or flow hood. Duct traverses were made where conditions allowed and were performed using a pitot tube, airfoil tube, and an electronic micromanometer.

The installation of the heating, ventilating, and air conditioning systems are in accordance with the plans and specifications.

We believe this report is self-explanatory in its entirety. However, if any questions arise; please do not hesitate to contact us.

Pro-Tech Diversified Services, Inc.

GUARANTEE

RE: Sample Report
Tampa, Florida

Please be advised that we guarantee the ***testing, adjusting & balancing of the HVAC systems*** on the above referenced project against defective workmanship for a period of one (1) year from substantial completion date.

Guarantee good from 1/2/2011 thru 1/1/2012 .

PRO-TECH DIVERSIFIED SERVICES, INC.

_____
Signature

Gary A. Cummings

INSTRUMENTATION LIST

Instrument	Model Number	Calibration Date
Shortridge Air Data Multimeter	ADM 870	07/13/10
Alnor Balometer	EBT-721	07/15/10
Extech Digital Psychrometer	RH-390	11/24/10
Fluke Current – Voltage Meter	36	11/24/10
Sperry Current Meter	DSA-500	07/02/10
Alnor Digital Hydronic Manometer	HM 680	06/23/10
Shortridge Digital Hydronic Manometer	HDM-250	02/13/10
Alnor Rotating Vane Anemometer	RVA801	06/23/10
Alnor Rotating Vane Anemometer	RVA801	02/13/10
Tachometer – Sticht	MF-2	07/08/10
Dwyer 18” Standard Pitot Tube	160-18	N/A
Dwyer 24” Standard Pitot Tube	160-24	N/A
Dwyer 36” Standard Pitot Tube	160-36	N/A
Dwyer 48” Standard Pitot Tube	160-48	N/A

ABBREVIATIONS

ADJ.	ADJUST
AHU	AIR HANDLING UNIT
CRU	COMPUTER ROOM UNIT
D.D.	DIRECT DRIVE
E.P.	ELECTRONICALLY PROTECTED
ERV	ENERGY RECOVERY VENTILATOR
EXIST.	EXISTING
FCU	FAN COIL UNIT
FPB	FAN POWERED BOX
HP	HEAT PUMP
HZ	HERTZ
MED.	MEDIUM
N/A	NO ACCESS
N/G	NOT GIVEN
OAU	OUTSIDE AIR UNIT
RTU	ROOF TOP UNIT
SPD.	SPEED
T.P.	THERMALLY PROTECTED
VSC	VARIABLE SPEED CONTROL
W.G.	WATER GAUGE
WSAC	WATER SOURCE AIR CONDITIONER
WSCRU	WATER SOURCE COMPUTER ROOM UNIT
WSHP	WATER SOURCE HEAT PUMP

Air Handling Unit

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: AHU-01
AREA: CLASSROOM 110

Unit Data

Unit Manufacturer	McQUAY
Unit Model Number	CAH012FDAC
Unit Serial Number	FBOU12345678
Unit Discharge	HORIZONTAL

Design Data

Total CFM Design	6250
O/A CFM Min Design	1000
R/A CFM Design	5250
TSP Design	4.45 in. wc
ESP Design	1.35 in. wc
Spec Outlet CFM	6050

Final Test Data

Thermostat Display	74.5 Deg F
Space Temp DB	75.0 Deg F
Space Humidity	52% % RH
O/A Damper Pos	60 %
R/A Damper Pos	100 %

Test Data

Total CFM Actual	6030
O/A CFM Actual	1020
R/A CFM Actual	5010
Observed Outlet CFM	6030
VFD at Final test	55.0 HZ
System Static Setpoint	1.25 in. wc

Electrical Test Data

AHU-01 / Supply Fan

Motor Volts T1-T2	489 Volts
Motor Volts T2-T3	488 Volts
Motor Volts T1-T3	484 Volts
Motor Amps T1	12.1 Amps
Motor Amps T2	12.3 Amps
Motor Amps T3	12.4 Amps

Motor Data

AHU-01 / Supply Fan

Motor Manufacturer	BALDOR
Motor Frame	184T
Motor Nameplate HP	1.0 HP
Motor Nameplate RPM	1760 RPM
Motor Phase	3
Motor Rated Volts	460 Volts
Motor FL Amps	12.9 Amps
Motor Service Factor	1.15

Sheave Data

AHU-01 / Supply Fan

Motor Sheave MFG	BROWNING
Motor Sheave Model	2MVP70B
Motor Sheave Diam.	7.0-8.4 in.
Motor Sheave Bore	1-3/8 in.
Fan Sheave MFG	BROWNING
Fan Sheave Model	2TB40
Fan Sheave Diam.	4.0 in.
Fan Sheave Bore	1-11/16 in.
Sheave Center Line	13.5 in.
Belt Size	BX-42
Number of Belts	2
Fan RPM Design	3300 RPM
Fan RPM Actual	3330 RPM

Test Pressures

Fan SP In	-2.10 in. wc
Fan SP Out	0.80 in. wc
Suction SP Actual	-0.65 in. wc
Discharge SP Actual	0.80 in. wc
ESP Actual	1.45 in. wc
TSP Actual	2.90 in. wc

NOTES:

Roof Top Unit

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: RTU-01

Design Data	
Total CFM Design	5575
O/A CFM Design	1275
R/A CFM Design	4300
Spec Outlet CFM	5575
ESP Design	0.75 in. wc
TSP Design	1.45 in. wc

Test Data	
Total CFM Actual	5680
O/A CFM Actual	1320
R/A CFM Actual	4360
Observed Outlet CFM	5680
VFD at Final test	54.5 HZ

Test Pressures	
Final sytem static	1.10 in. wc
Fan TSP Actual	1.41 in. wc
ESP Actual	0.68 in. wc

NOTES:

Fan Unit

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: EF-01
AREA: TOILETS

Unit Data	
Fan Manufacturer	COOK
Fan Model Number	ACE-120
Fan Serial Number	9905K1234

Design Data	
Total CFM Design	400
Fan RPM Design	883
TSP Design	0.5 in. wc

Test Data	
Total CFM Actual	500

Electrical Test Data	
Motor Volts T1-T2	118 Volts
Motor Amps T1	7.4

Motor Data	
Motor Mfg.	FASCO
Motor Frame	46
Motor Specified HP	0.75
Motor HP	.75 HP
Motor Nameplate RPM	1725 RPM
Motor Rated Volts	115 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	8.8 Amps
Motor Service Factor	1.15
Nominal Efficiency	1 %
Power Factor	1

Sheave Data	
Motor Sheave Mfg.	BROWNING
Motor Sheave Model	VP40
Motor Sheave Diam.	4.0 in.
Motor Sheave Bore	5/8 in.
Fan Sheave Mfg.	BROWNING
Fan Sheave Model	AK64
Fan Sheave Diam.	6.4 in.
Fan Sheave Bore	3/4 in.
Number of Belts	1
Belt Size	AX-30
Sheave Center Line	10.0 in.
Sheave Open Turns	3
Fan RPM Actual	916 RPM

Test Pressures	
TSP Actual	0.33 in. wc

NOTES:

Fan Unit

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: EF-02
AREA: KITCHEN 101

Unit Data	
Fan Manufacturer	GREENHECK
Fan Model Number	GB-280-QD
Fan Serial Number	G08L56432

Design Data	
Total CFM Design	3600
Fan RPM Design	1005
TSP Design	1 in. wc

Test Data	
Total CFM Actual	3588

Electrical Test Data	
Motor Volts T1-T2	467
Motor Volts T2-T3	467
Motor Volts T1-T3	470
Motor Amps T1	9.8
Motor Amps T2	10.3
Motor Amps T3	10.4

Motor Data	
Motor Mfg.	BALDOR
Motor Frame	184
Motor Specified HP	5.0
Motor HP	5.0 HP
Motor Nameplate RPM	1725 RPM
Motor Rated Volts	460 Volts
Motor Phase	3
Motor Hertz	60 Hz
Motor FL Amps	10.5 Amps
Motor Service Factor	1.25
Nominal Efficiency	1 %
Power Factor	1

Sheave Data	
Motor Sheave Mfg.	BROWNING
Motor Sheave Model	VP50
Motor Sheave Diam.	5.0 in.
Motor Sheave Bore	1-1/8 in.
Fan Sheave Mfg.	BROWNING
Fan Sheave Model	BK74
Fan Sheave Diam.	7.4 in.
Fan Sheave Bore	1-3/16 in.
Number of Belts	1
Belt Size	BX-44
Sheave Center Line	13.8 in.
Sheave Open Turns	0
Fan RPM Actual	1011 RPM

Test Pressures	
TSP Actual	0.95 in. wc

NOTES:

VAV Box

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: AHU-01 / VAV-01
AREA: CLASSROOM 110

Unit Data	
Controls Mfg.	ENVIROTECH
VAV Address	111
Box Inlet Size	12
K Factor	1.080
Model Number	ETI-10.5

Term Box Test Data	
Max Airflow Setpoint	1600
Max Design Airflow	1600
Max Actual Airflow	1620
Min Airflow Setpoint	330
Min Design Airflow	330
Min Actual Airflow	345
Reheat Setpoint	550
Reheat Design Airflow	550 CFM
Reheat Actual Airflow	560 CFM
Fan Design Airflow	220 CFM
Fan Actual Airflow	225 CFM

NOTES:

SYSTEM/UNIT: AHU-01 / VAV-02
AREA: LOBBY 115

Unit Data	
Controls Mfg.	ENVIROTECH
VAV Address	112
Box Inlet Size	8
K Factor	0.980
Model Number	ETI-7.5

Term Box Test Data	
Max Airflow Setpoint	1000
Max Design Airflow	1000 CFM
Max Actual Airflow	1020 CFM
Min Airflow Setpoint	250
Min Design Airflow	250 CFM
Min Actual Airflow	235 CFM
Reheat Setpoint	480
Reheat Design Airflow	480 CFM
Reheat Actual Airflow	500 CFM
Fan Design Airflow	400 CFM
Fan Actual Airflow	410 CFM

NOTES:

SYSTEM/UNIT: AHU-01 / VAV-03
AREA: RECEPTION 100

Unit Data	
Controls Mfg.	ENVIROTECH
VAV Address	113
Box Inlet Size	8
K Factor	1.030
Model Number	ETI-7.5

Term Box Test Data	
Max Airflow Setpoint	880
Max Design Airflow	880 CFM
Max Actual Airflow	885 CFM
Min Airflow Setpoint	180
Min Design Airflow	180 CFM
Min Actual Airflow	180 CFM
Reheat Setpoint	300
Reheat Design Airflow	300 CFM
Reheat Actual Airflow	320 CFM
Fan Design Airflow	400 CFM
Fan Actual Airflow	390 CFM

NOTES:

VEV Box

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: EF-01 / VEV-01
AREA: LABORATORY 111

Unit Data	
Manufacturer	PHOENIX
VEV Address	A45
Box Inlet Size	12" IN.
K Factor	0.987
Model Number	P-23500

Term Box Test Data	
Max Design CFM	1200 CFM
Max Actual CFM	1220 CFM
Max Setpoint	1200 CFM
Min Design CFM	680 CFM
Min Actual CFM	675 CFM
Min Setpoint	680 CFM

NOTES:

Supply Outlet

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

AHU-01 / VAV-01

System / Unit	Area Served	Outlet Type	Size	AK Factor	Design Reading	Prelim Reading	Final Reading	Final Velocity	% Final Deviation
S/A-01	CLASS 110	AD-1	10"	1.00	300	390	310		103
S/A-02	CLASS 110	AD-1	12x10	1.00	400	450	410		103
S/A-03	CLASS 110	AD-1	12x10	1.00	400	280	400		100
S/A-04	CORRIDOR	AD-1	16"	1.00	500	550	500		100
	Totals :	**-**	**-**	**-**	**1600**	**1670**	**1620**	**-**	**101 %**

NOTES:

Exhaust Inlet

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

EF-01

System / Unit	Area Served	Inlet Type	Size	AK Factor	Design Reading	Prelim Reading	Final Reading	Final Velocity	% Final Deviation
E/A-01	TOILET	EG-1	6/6	1.00	100	165	125		125
E/A-02	TOILET	EG-1	8/8	1.00	150	125	185		123
E/A-03	TOILET	EG-1	8/8	1.00	150	180	190		127
	Totals :	**-**	**-**	**-**	**400**	**470**	**500**	**-**	**125 %**

NOTES:

Hydronic Pump

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: PUMP-01

Unit Data	
Pump Manufacturer	BELL & GOSSETT
Pump Model Number	1510
Pump Serial Number	09S345TR

Design Data	
Service	CHW
Design Flowrate	300 GPM
Design TDH	20.8 Ft. H2o
Design Impeller Diam.	6.8 In.
Design Motor HP	5.0
Design Motor RPM	1800
GPM Required	300.0 GPM

Electrical Test Data	
Motor Volts T1-T2	465 Volts
Motor Volts T2-T3	466 Volts
Motor Volts T1-T3	466 Volts
Motor Amps T1	13.3 Amps
Motor Amps T2	13.4 Amps
Motor Amps T3	13.4 Amps

Motor Data	
Motor Manufacturer	BALDOR
Motor Frame	215T
Motor HP	5.0 HP
Motor RPM	1760 RPM
Motor Rated Volts	460 Volts
Motor F.L. Amps	14.8 Amps
Motor Phase	3
Motor Hertz	60 Hz
Motor S.F.	1.15
Motor Seal Type	MECHANICAL

Measured Data	
Shutoff Disch. Press.	50.50 PSI
Shutoff Suct. Press.	34.00 PSI
Shutoff Diff.	16.50 PSI
Shutoff Head	38.1 Ft. H2o

Test Pressures	
Final Disch. Press.	45.00 PSI
Final Suct. Press.	36.00 PSI
Actual Press. Diff	9.50 PSI
Actual TDH	9.00 PSI
GPM Actual	300.0 GPM

Miscellaneous Data	
System Differential Press.	24.0 PSI

NOTES:

Balance Valve

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: PUMP-01 / Valve-01

Unit Data	
Mfg.	BELL & GOSSETT
Model	BG-1
Venturi DP Design	12
GPM Design	24 GPM
Size	1"

Test Data	
Final GPM Actual	25.00 GPM
Valve DP Actual	13.00
Valve Position	3 %
Ent. Air Temp	55.0 Deg F
Leav. Air Temp	95.0 Deg F
Ent. Water Temp	180.0 Deg F
Leav. Water Temp	140.0 Deg F
Coil Pressure Delta Design	26.0 PSI
Coil Pressure Delta Actual	22.0 PSI

NOTES:

Autoflow Valve

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: Autoflow Valve-01

Unit Data	
Valve Manufacturer	NEXUS
Valve Size	2.5" INCHES
Valve Model Number	WB-250
Design Operating Range	2-32 PSI

Test Data	
Design GPM	33.1 GPM
Actual GPM	33.1 GPM
Valve D.P. Actual	7.0 PSI

NOTES:

Duct Traverse

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: O/A AHU-01

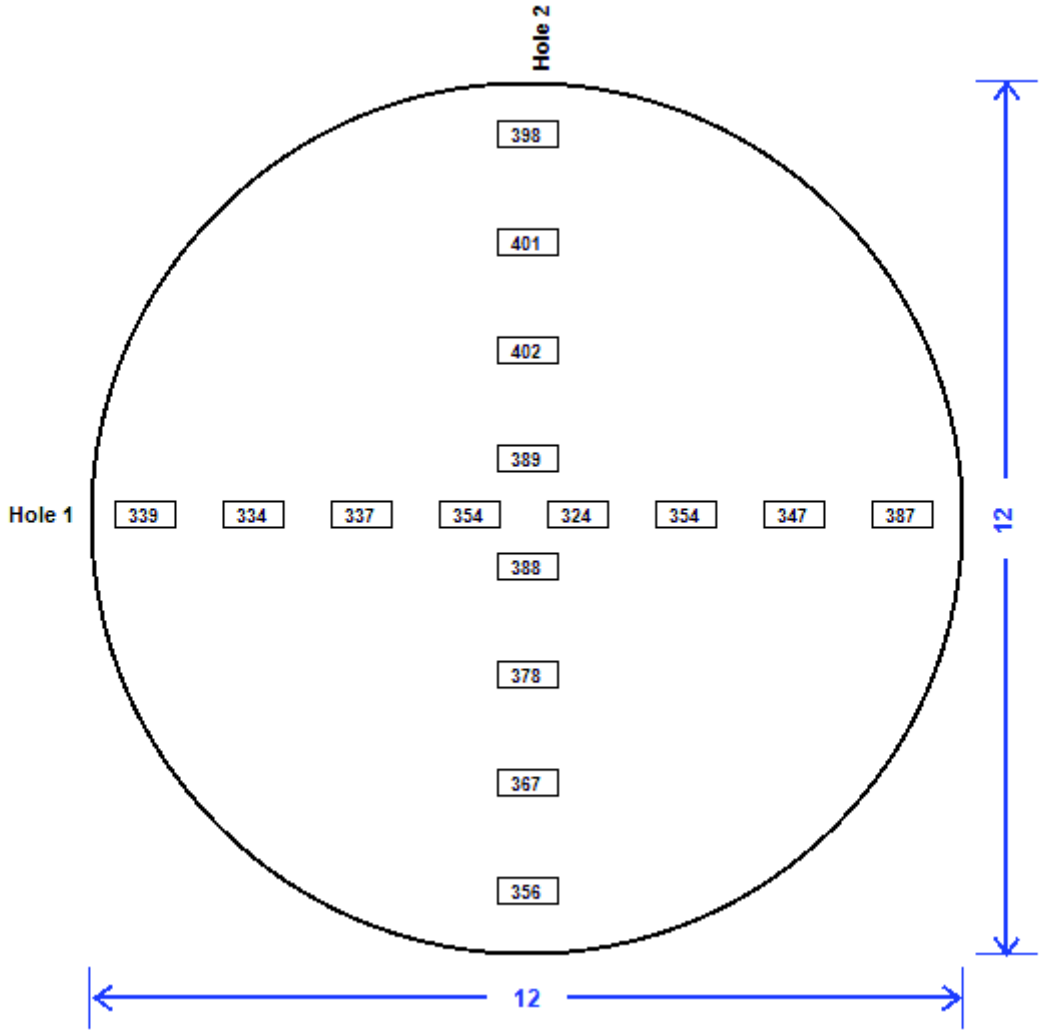
Ductwork Data	
Diameter	12.0 in.

Test Data	
Type of Traverse	ROUND
Number Of Rows	2
Readings Per Row	8
Total Readings	16

Traverse Summary	
CFM Design	300 CFM
CFM Actual	289 CFM
Static Reading	-0.45 in.
Air Flow Area	0.79 sq. ft.
Average Velocity	366 FPM
Reading Std. Dev.	26.1 FPM
Sum of Readings	5855

NOTES:

Duct Traverse Data Points



Duct Traverse

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: R/A AHU-01

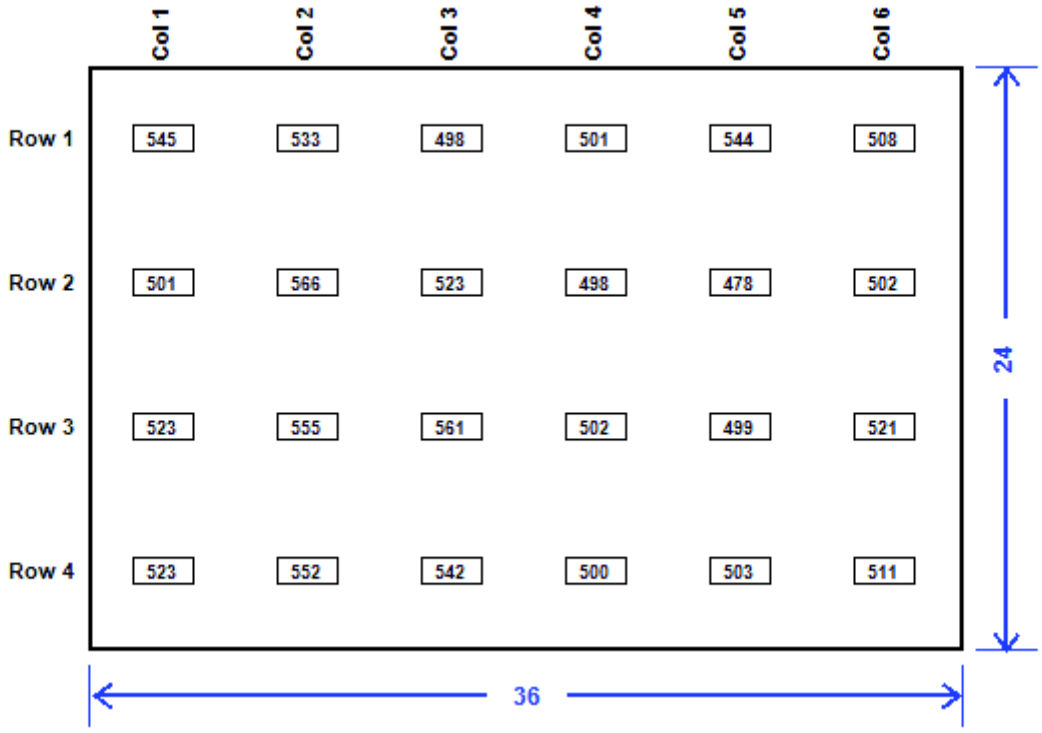
Ductwork Data	
Outer Height	24.00 in.
Outer Width	36.00 in.

Test Data	
Type of Traverse	RECTANGLE
Number Of Rows	4
Readings Per Row	6
Total Readings	24

Traverse Summary	
CFM Design	3350 CFM
CFM Actual	3122 CFM
Static Reading	-0.38 in.
Air Flow Area	6.00 sq. ft.
Average Velocity	520 FPM
Reading Std. Dev.	24.1 FPM
Sum of Readings	12489

NOTES:

Duct Traverse Data Points



Duct Traverse

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: S/A AHU-01

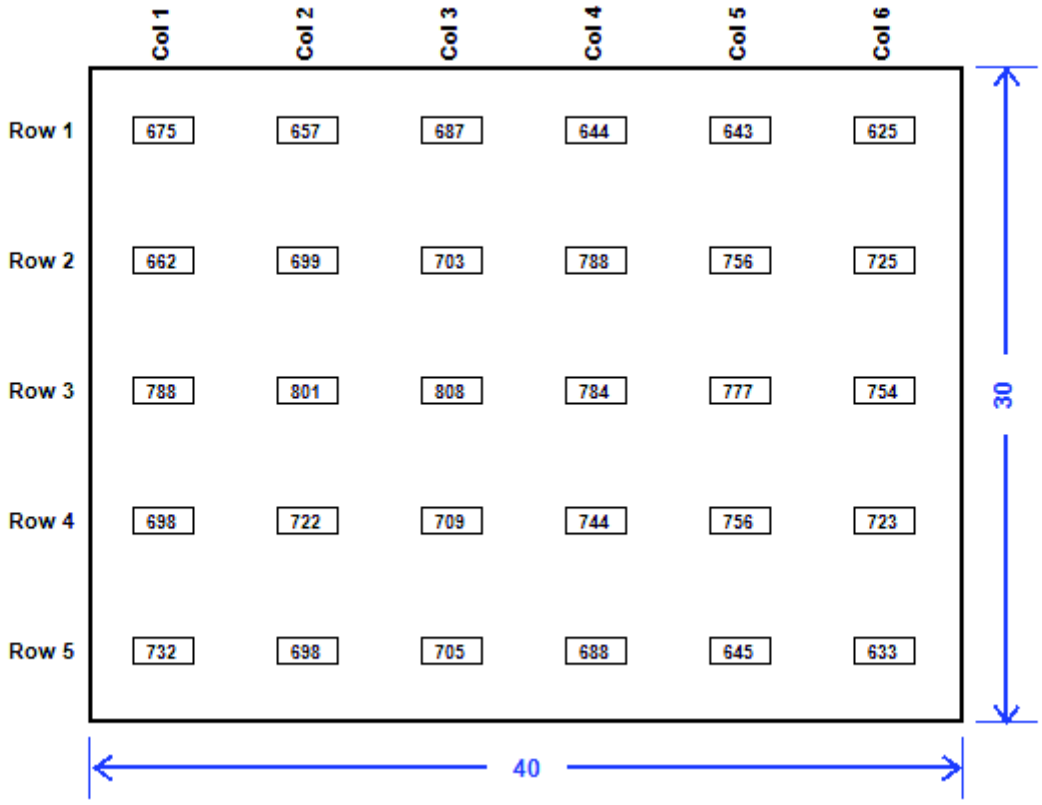
Ductwork Data	
Outer Height	30.00 in.
Outer Width	40.00 in.

Test Data	
Type of Traverse	RECTANGLE
Number Of Rows	5
Readings Per Row	6
Total Readings	30

Traverse Summary	
CFM Design	6000 CFM
CFM Actual	5950 CFM
Static Reading	0.22 in.
Air Flow Area	8.33 sq. ft.
Average Velocity	714 FPM
Reading Std. Dev.	53.1 FPM
Sum of Readings	21429

NOTES:

Duct Traverse Data Points



Fume Hood

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

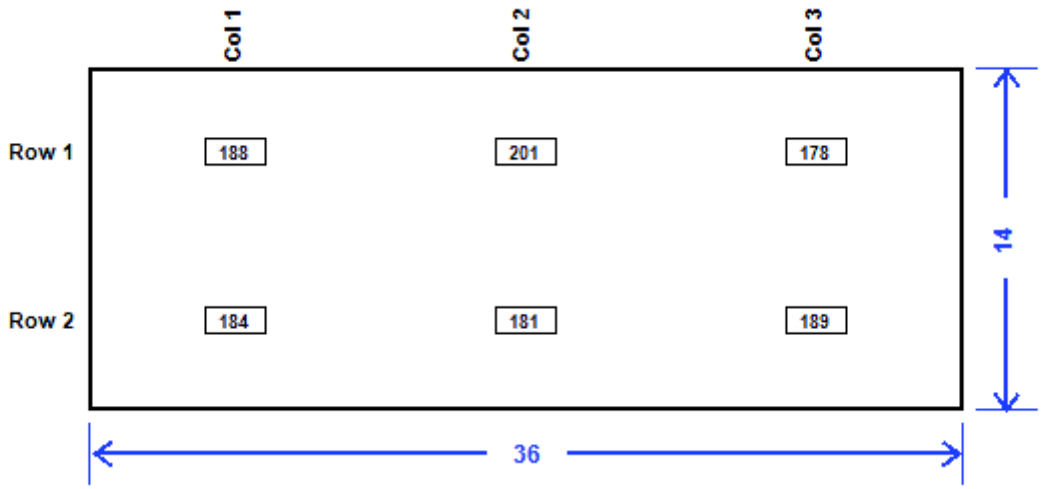
SYSTEM/UNIT: HOOD-01
AREA: CLASSROOM 110

Unit Data	
Hood Number	H-1
Hood MFG	LABCOCNO
Model Number	L-123
Sash Position At Test	14 in.
Number Of Rows	2
Readings Per Row	3
Total Readings	6
Lab Name/Number	SCIENCE
Height of Sash Opening	14 in.
Width of Sash Opening	36 in.

Final Data	
Minimum VFPM	178 FPM
Maximum VFPM	201 FPM
Average VFPM	187 FPM

NOTES:

Fume Hood Data Points



Coil Test

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: AHU-01

Unit Data	
System Number	AHU-01
Coil Location	AHU
Coil Type	CHW

Design Data	
O/A DB Design	95.0 Deg F
R/A DB Design	76.0 Deg F
R/A WB Design	62.5 Deg F
ENT DB Design	78.4 Deg F
ENT WB Design	64.8 Deg F
LVG DB Design	55.0 Deg F
LVG WB Design	54.8 Deg F
Coil DP Design Ft.	3.6 Ft.
ENT Water Temp Design	45.0 Deg F
LVG Water Temp Design	55.0 Deg F
Water Delta T Design	10.0 Deg F
Sensible Capacity Design	135250 BTUH
Total Capacity Design	192565 BTUH

Coil Air Test Data	
ENT DB Actual	75.7 Deg F
ENT WB Actual	62.4 Deg F
LVG DB Actual	54.5 Deg F
LVG WB Actual	53.8 Deg F
Sensible Capacity Actual	137265 BTUH
Total Capacity Actual	194388 BTUH

Air Test Data	
Airflow Design	5000 CFM
Airflow Actual	4980 CFM
O/A DB Actual	88.0 Deg F
O/A WB Actual	74.0 Deg F
R/A DB Actual	75.5 Deg F
R/A WB Actual	61.8 Deg F

Water Test Data	
Water Flow Design	34.50 GPM
Water Flow Actual	33.60 GPM

Coil Water Test Data	
ENT Water Temp Actual	44.8 Deg F
LVG Water Temp Actual	54.5 Deg F
Water Delta T Actual	9.7 Deg F
Coil DP Actual Ft.	3.1 Ft.

NOTES:

Electric Coil

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: Electric Coil-01

Unit Data	
System Number	AHU-01
Coil Location	DUCT
Coil Type	ELECTRIC
Coil Manufacturer	WARREN

Design Data	
Design KW	20.0 KW
Design Volts	460 Volts
Design Phase	3
Design Amps	25.2 Amps

Electrical Test Data	
Act. Volts 1	464 Volts
Act. Volts 2	459 Volts
Act. Volts 3	460 Volts
Act. Amps 1	25.9 Amps
Act. Amps 3	26.2 Amps
Act. Amps 2	25.5 Amps

Air Test Data	
Airflow Design	3000 CFM
Airflow Actual	3200 CFM

Coil Data	
Tag KW	20.0 KW
Stages	2

Electric Heat	
Actual KW	20.6 KW

NOTES:

SYSTEM/UNIT: Electric Coil-02

Unit Data	
System Number	AHU-01
Coil Location	DUCT
Coil Type	ELECTRIC
Coil Manufacturer	INDEECO

Design Data	
Design KW	5.0 KW
Design Volts	277 Volts
Design Phase	1
Design Amps	18.0 Amps

Electrical Test Data	
Act. Volts 1	278 Volts
Act. Amps 1	17.8 Amps

Air Test Data	
Airflow Design	1200 CFM
Airflow Actual	1200 CFM

Coil Data	
Tag KW	5.5 KW
Stages	1

Electric Heat	
Actual KW	4.94 KW

NOTES:

Chiller Test

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: CH-01

Unit Data	
Manufacturer	McQUAY
Model Number	M90R673-0
Serial Number	08-786432
Cooling Type	AIR
Rated Capacity	90 Tons

Design Data	
Evap Flow Design	300.0 GPM
Evap DP Design	12.40 ft.
Evap Dsgn Ent H2O Temp	55.0 Deg F
Evap Dsgn Lvg H2O Temp	44.0 Deg F
Cond Flow Design	330.0 GPM
Cond DP Design	8.80 ft.
Cond Dsgn Ent H2O Temp	90.0 Deg F
Cond Dsgn Lvg H2O Temp	78.0 Deg F
Design Volts	460 Volts
Design Amps	15 Amps

Electrical Test Data	
Volts T1-T2	466 Volts
Volts T2-T3	467 Volts
Volts T1-T3	468 Volts
Amps T1	14.4 Amps
Amps T2	14.0 Amps
Amps T3	14.6 Amps

Evaporator Data	
Evap Flow Actual	300 GPM
Evap DP Actual	12.50 ft.
Evap Act Ent H2O Temp	56.0 Deg F
Evap Act Lvg H2O Temp	45.0 Deg F

Condenser Data	
Cond Flow Actual	350.0 GPM
Cond DP Actual	9.90 ft.
Cond Act Ent H2O Temp	88.0 Deg F
Cond Act Lvg H2O Temp	76.0 Deg F

NOTES:

Cooling Tower

PROJECT: SAMPLE REPORT
LOCATION: TAMPA, FL
PROJECT #: P01

DATE: 1/2/2011
CONTACT: GARY CUMMINGS

SYSTEM/UNIT: CT-01

Unit Data	
Unit Manufacturer	MARLEY
Unit Designation	CT-1
Unit Model Number	M0123
Unit Serial Number	08-567
Rated Capacity	1,350,000 BTU's

Water Test Data	
Design Water Flow	350.0 GPM
Actual Water Flow	330.0 GPM

Test Data	
EAT Wet Bulb	78.0 Deg F
EAT Dry Bulb	95.0 Deg F
LAT Wet Bulb	89.0 Deg F
LAT Dry Bulb	110.0 Deg F
Ambient Air Dry Bulb	95.0 Deg F

NOTES: