

O'Neill Walsh Community Builders

Submittal Form

OWCB

AHSC

(Project)

Submittal No. 001Y

Description: Testing and Balancing

Date: 10/27/17 Return By: 11/10/17

Division: 23

Section: 23 05 90

Andersen

Subcontract/Supplier:

The review by O'Neill Walsh Community Builders ("OWCB") of the above Submittal shall not relieve Subcontractor/Supplier from any of its obligations under the agreement with OWCB nor give rise to any claim in favor of the Subcontractor/Supplier or third parties against OWCB or Owner.

By: Logan Bright

O'Neill Walsh Community Builders

Notes:

ARCHITECT

Notes:

ENGINEER

Revise and Resubmit.

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contact documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: Dimensions, which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work.

MFIA, Inc. Consulting Engineers

By: Takako Baker, Date:11/11/17

Notes:



*"Your Green Heating & Cooling Professionals
Dedicated to Serving You and Your Community."*

HVAC Submittals

**Yakima Clinic
9005 SE Foster Rd.
Portland, OR 97203**

**Submitted To:
O'Neill / Walsh Community Builders
2905 SW First Ave
Portland, OR 97201**

**Submitted By:
Andersen Mechanical
16285 SW 85th Ave, Suite 410
Tigard, OR 97224**



23_05_90

Testing, Adjusting, and Balancing for HVAC

QUALIFICATION SUBMITTAL PACKAGE

Submittal Data For

HVAC Systems Testing, Adjusting & Balancing

On

Asian Health & Services Center

Architect

Holst Architecture

Mechanical Engineer

MFIA, Inc. Consulting Engineers

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INTRODUCTION

Accurate Balancing Agency Inc. is a certified third party TAB firm which was incorporated in 1990. We have developed a reputation as a trusted team member on commercial, industrial, and institutional projects ranging from small tenant improvements to large industrial projects. Our technicians bring over 80 years of combined TAB experience to our clients.

At Accurate Balancing Agency our technicians perform TAB services in accordance with project plans and specifications as well as the National Environmental Balancing Bureau (NEBB) procedural standards. We also reference the Associated Air Balance Council (AABC) manuals as well as the Sheet Metal and Air Conditioning Contractors National Association (SMACNA) guidelines. Accurate Balancing Agency carries the following certifications:

- We are NEBB Certified in Air and Water Testing, Adjusting, and Balancing.
- We are NEBB Certified in Sound and Vibration Measurement.
- We participate in the ABC Safety Training and Evaluation Process Program.
- All Technicians carry OSHA 10 or OSHA 30 Accreditation and are Lift Certified.

We appreciate you taking the time to review our submittal package. Feel free to contact us with any questions you might have with regard to our services.

Sincerely,

E. Michael May, Jr.
President/NEBB Certified TAB Professional
Accurate Balancing Agency



ABA VISION STATEMENT

ABA is a leading provider of HVAC testing, adjusting, and balancing services in the Pacific Northwest; optimizing the comfort and efficiency of commercial, industrial, and institutional buildings. We foster trusted partnerships within the construction industry by focusing on competency, communication, and honesty. Our team is highly trained, well equipped, and tenacious in meeting the expectations of our clients. Our employees are the strength of our organization; we value their input and provide a superior work environment with opportunities for advancement.

SERVICES PROVIDED

Accurate Balancing Agency provides the following services:

- Comprehensive third party testing, adjusting, and balancing of air and water systems. This service is provided to mechanical contractors, general contractors, as well as directly to building owners. All services are performed in accordance to project plans and specifications and to the NEBB procedural standards.
- Thorough surveys of existing building conditions including current air and water flows and fresh air introduction data.
- Rebalancing of existing installations to restore or improve building comfort.
- Certified Duct Leakage Testing in accordance with current SMACNA procedural standards.
- We are certified in the field of Sound and Vibration Testing and perform this service in accordance with NEBB procedural standards.
- Fume Hood Testing and Certification services are available for new as well as existing installations.
- Consultation services are available for specialized troubleshooting of all HVAC deficiencies.



Certification
THIS IS TO CERTIFY THAT

Accurate Balancing Agency, Inc.

HAS MET ALL REQUIREMENTS FOR NEBB CERTIFICATION
IN THE FOLLOWING DISCIPLINE

Testing Adjusting and Balancing of Environmental Systems


FOR THE NEBB BOARD OF DIRECTORS

[Signature]
NEBB President

[Signature]
NEBB President-Elect

March 31, 2019
Expiration Date

3177
NEBB Certification Number

Certification
THIS IS TO CERTIFY THAT

Accurate Balancing Agency, Inc.

HAS MET ALL REQUIREMENTS FOR NEBB CERTIFICATION
IN THE FOLLOWING DISCIPLINE

Sound Measurement



FOR THE NEBB BOARD OF DIRECTORS

[Signature]
NEBB President

[Signature]
NEBB President-Elect

March 31, 2019
Expiration Date

3177
NEBB Certification Number

Certification
THIS IS TO CERTIFY THAT

Accurate Balancing Agency, Inc.

HAS MET ALL REQUIREMENTS FOR NEBB CERTIFICATION
IN THE FOLLOWING DISCIPLINE

Vibration Measurement


FOR THE NEBB BOARD OF DIRECTORS

[Signature]
NEBB President

[Signature]
NEBB President-Elect

March 31, 2019
Expiration Date

3177
NEBB Certification Number





NEBB Certification Board

NEBB Certified Professional

Edward M. May, Jr.



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

Testing, Adjusting and Balancing of Environmental Systems

This Certificate, as well as individual affiliation with a NEBB Certified Firm and associated NEBB Certification Stamp are REQUIRED to provide a NEBB Certified Report. Participation in the NEBB Quality Assurance Program requires the Certificate holder be affiliated with a NEBB Certified Firm.

March 31, 2019

Expiration Date

23188

NEBB Certificate Number

Stanley H. Hooper

NEBB Certification Board Chairman

Lynnie K. Smith

NEBB Certification Director

The NEBB Certification Board retains sole ownership of all certificates. The NEBB Certification Board Policy Manual governs use of this certificate.



NEBB Certification Board

NEBB Certified Professional

Edward M. May, Jr.



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

Sound Measurement

This Certificate, as well as individual affiliation with a NEBB Certified Firm and associated NEBB Certification Stamp are REQUIRED to provide a NEBB Certified Report. Participation in the NEBB Quality Assurance Program requires that the holder of this certification also be affiliated with a NEBB Certified Firm.

March 31, 2019

Expiration Date

23188

NEBB Certificate Number

Stanley H. Hooper

NEBB Certification Board Chairman

Lynnie K. Smith

NEBB Certification Director

The NEBB Certification Board retains sole ownership of all certificates. Use of this certificate is governed by the NEBB Certification Board Policy Manual.



NEBB Certification Board

NEBB Certified Professional

Edward M. May, Jr.



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

Vibration Measurement

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Lynnie K. Smith

NEBB Certification Director

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NEBB Certification Board

NEBB Certified Technician

Mathew Spingler



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

Testing, Adjusting and Balancing of Environmental Systems

This Certificate, as well as individual affiliation with a NEBB Certified Firm and associated NEBB Certification Stamp are REQUIRED to provide a NEBB Certified Report. Participation in the NEBB Quality Assurance Program requires the Certificate be affiliated with a NEBB Certified Firm.

March 31, 2019

Expiration Date

21099

NEBB Certificate Number

Stanley Black

NEBB Certification Board Chairman

Gyngwie Huata

NEBB Certification Director

The NEBB Certification Board retains sole ownership of all certificates. The NEBB Certification Board Policy Manual governs use of this certificate.



NEBB Certification Board

NEBB Certified Technician

Thomas Takemoto



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

Testing, Adjusting and Balancing of Environmental Systems

This Certificate, as well as individual affiliation with a NEBB Certified Firm and associated NEBB Certification Stamp are REQUIRED to provide a NEBB Certified Report. Participation in the NEBB Quality Assurance Program requires the Certificate be affiliated with a NEBB Certified Firm.

March 31, 2019

Expiration Date

21163

NEBB Certificate Number

Stanley Black

NEBB Certification Board Chairman

Gyngwie Huata

NEBB Certification Director

The NEBB Certification Board retains sole ownership of all certificates. The NEBB Certification Board Policy Manual governs use of this certificate.

STAFF QUALIFICATIONS – Field Personnel

Accurate Balancing Agency's technicians have developed a reputation for honesty, communication, and tenacity. They are skilled in all areas of TAB including constant volume and variable volume systems. Our technicians have extensive training and experience with all control systems; from older pneumatic systems to the latest direct digital control systems. They are well versed in dealing with a wide variety of air handling and mechanical water systems from remodel retrofits to the latest in chilled beam installations. Our technicians are also proficient testing and balancing various types of mechanical water systems including heating, chilled, process water, geo-thermal, domestic, and radiant water applications. Our technicians bring over 80 years of combined TAB experience to our clients.

Tommy Takemoto

Tommy is a NEBB Certified TAB technician who has been with Accurate Balancing Agency since 2003. Steady and reliable, Tommy is skilled in all areas of TAB including air and water balancing as well as commercial kitchen work. Tommy has a team attitude and has received multiple letters of commendation for his attention to detail. Tommy is an avid sports fan and dedicated family man.

Mathew Spingler

Mathew is a NEBB Certified TAB Technician who has been with Accurate Balancing Agency since 2009. Mathew has developed a reputation for his outstanding communication. He likes the challenges involved with larger, more technically complex projects. In Mat's off time he enjoys hiking, biking, and exploring the northwest with his fiancé. He is also an impressive amateur photographer.

Stuart Smith

Stuart has been with ABA since 2014 and has over 25 years of TAB experience. As such he has evolved alongside the industry and embraced the many changes in HVAC technology. He is a versatile technician and team player who has a talent for problem solving and troubleshooting. When Stu is not working he enjoys home improvement projects and relaxing with his wife.

Callahan Maxwell

Callahan has been with ABA since 2014 and is currently a Technician in Training spending significant time working with all of our field technicians developing his balancing skills. He has already proven his desire for knowledge as well as an aptitude for this industry. Cal and his fiancé have their hands full with a young son at home. He also enjoys playing disc golf when he can find the time.

STAFF QUALIFICATIONS – Office Personnel

E. Michael May, Jr.

Michael is the President of Accurate Balancing Agency. He is also the firm's National Environmental Balancing Bureau (NEBB) Certified Professional and has been with Accurate Balancing Agency since its inception in 1990. He is NEBB certified in the fields of Air and Water Balancing as well as Sound and Vibration Measurement. Splitting time between the office and the field; Michael is proficient in all areas of TAB work including duct leakage testing and fume hood certification, but particularly enjoys troubleshooting HVAC deficiencies. When Michael is not working he enjoys adventuring with his wife and two boys, volunteering for Scouting programs, and tinkering with his first car; a '65 Mustang.

Jason Pitzer

Jason is our Operations Manager / Estimator and has been with Accurate Balancing Agency since 2003. He has developed and maintained longstanding relationships with our partner contractors. He handles many of our administrative needs and has been instrumental in helping to develop the company culture we enjoy. Jason has a special knack for scheduling and logistics and goes the extra mile to meet demanding timelines. In Jason's off-time he is a very involved husband and father as well as an avid disc golfer.

Christy May

Christy handles all financial duties for Accurate Balancing Agency from bookkeeping to cash flow management. She also serves as our Corporate Secretary. When not working on ABA matters, or running the kids to and from Scouting and sporting events, Christy coaches club volleyball and competes in adventure races.

Matthew Westfall

Matthew is our Operations Assistant and has been with ABA since 2013. He helps with many aspects within the office while exhibiting a can-do attitude. Outside of work Matt and his wife have two young children to keep them busy. He is a dedicated sports fan and enjoys outdoor activities in his off hours.

COMPANY SUSTAINABLE PRACTICES

Accurate Balancing Agency takes sustainability seriously. From the services we provide, to employment practices and environmental issues; we are mindful of our impact in the Northwest:

- During the process of Testing, Adjusting, and Balancing; a large part of what we do involves optimizing the efficiency of the buildings we work on.
- Our Duct Leakage Testing service verifies the integrity of the HVAC systems installed which increases the efficiencies of these systems.
- We offer our employees competitive wages, benefits, vacation, and sick time.
- We offer our employees 100% company paid family health insurance.
- We print all applicable documents double sided to reduce paper usage.
- Most in-house documents are shared via email and electronic files.
- We recycle all paper, cardboard, glass, styrofoam, metal, and batteries. Jason makes sure we are up to date on the latest recycling options available.
- We encourage employees to participate in our quarterly non-standard item and hazardous material recycling program.
- All office cleaning supplies used are biodegradable.
- Our office uses high efficiency long life bulbs.
- We use local vendors and suppliers whenever possible to support the local economy and reduce shipping waste.
- We volunteer our time to work on forest restoration projects in our area.

INSTRUMENTATION LIST

Accurate Balancing Agency complies with all NEBB calibration requirements. The following instruments are available for each employee or crew to be used during the performance of HVAC Systems Testing and Balancing:

Instruments

TAB Tool Kit – Evergreen Telemetry – Various Instruments

15” Capture-Hood – Evergreen Telemetry - CH-15D

8” Low Flow Capture-Hood – Evergreen Telemetry – CH-8D

Digital Hydrometer – Alnor - Model HM680

4” Digital Rotovane Anemometer – Extek - Model DAFM2

Digital Electrical RMS Amprobe/Multimeter – Universal Enterprises - Model DL389

Digital Thermometer – Universal Enterprises - Model DTK2

Digital Humidity Probe – Evergreen Telemetry – S-H-3-5”

Digital Tachometer – APGtech – Model 6234766

Stainless Steel Pilot Tubes – Dwyer – Various Sizes

Stainless Steel Airfoil Probes – Shortridge Instruments – Various Sizes

Velocity Grid – Shortridge Instruments – Various Sizes

Publications

National Environmental Balancing Bureau (NEBB):
Procedural Standards For Testing Adjusting and Balancing 8th Edition, 2015

Sheet Metal and Air Conditioning Contractors’ National Association (ASHRAE):
ASHRAE Handbook, HVAC Applications 2015 Edition

COMPLETED PROJECTS

The following projects were completed by Accurate Balancing Agency, Inc. in accordance with plans and specifications and to NEBB procedural standards.

Project: **CSL Plasma New Center**
Address: 2055 SE Tualatin Valley – Hillsboro, OR. 97123
Engineer: Henderson Engineers **Contact:** Phillip G. Miller **Phone:** (972) 386-6688
General: Barker Morrissey Contracting **Contact:** Jay Kendall **Phone:** (520) 323-3831
Mechanical: Arrow Mechanical **Contact:** Kevin Kruszewski **Phone:** (503) 793-2854

Project: **iFly Indoor Skydiving**
Address: 10655 SW Greenburg Road – Tigard, OR. 97223
Engineer: Bay & Associates Inc. **Contact:** RaDonna Belk **Phone:** (512) 407-9011
General: Parkway Construction **Contact:** Ethan Mabe **Phone:** (469) 243-7603
Mechanical: Jacobs Heating **Contact:** Sal Castello **Phone:** (503) 234-7331

Project: **Starbucks Coffee**
Address: 2830 Willamette St. – Eugene, OR. 97405
Engineer: Rensch Engineering **Contact:** Chris C. Resch **Phone:** (360) 863-6677
General: Ordell Construction **Contact:** Rich Smith **Phone:** (541) 514-5198
Mechanical: Innovative Air **Contact:** Dave Bragg **Phone:** (541) 746-1040

Project: **World of Speed**
Address: 27490 SW 95th Ave. – Wilsonville, OR. 97070
Engineer: Grummel Engineering, LLC. **Contact:** Robert Grummel **Phone:** (503) 244-7014
General: Siteworks Design/Build **Contact:** Brad Sick **Phone:** (503) 230-2337
Mechanical: HVAC, Inc. **Contact:** Diane Gardner **Phone:** (503) 462-4822

Project: **Portland Community College – SE Learning Commons**
Address: 2035 SE 82nd Ave. – Portland OR. 97216
Engineer: PAE Consulting Engineers **Contact:** Steven J. Reidy **Phone:** (503) 226-2921
General: Inline Construction **Contact:** David Brookhart **Phone:** (503) 642-5117
Mechanical: A-Absolute Comfort **Contact:** Jim Sheppard **Phone:** (503) 513-4795

Project: **Whole Foods Market Fremont**
Address: 3535 NE 15th Ave. – Portland, OR. 97212
Engineer: Cushing Terrell Engineers **Contact:** Michael Nitschke **Phone:** (406) 248-3779
General: SEER 2 **Contact:** Brad Person **Phone:** (602) 919-3414
Mechanical: Protemp Associates **Contact:** Rich Wilcox **Phone:** (503) 233-6911

COMPLETED PROJECTS

The following projects were completed by Accurate Balancing Agency, Inc. in accordance with plans and specifications and to NEBB procedural standards:

Project: Nike Greystone II

Address: 15725 SW Greystone Court – Beaverton, OR.

Engineer: American Heating **Contact:** Eric Montoya **Phone:** (503) 239-4600

General: Swinerton Builders **Contact:** Ryan Wasell **Phone:** (503) 224-6888

Mechanical: American Heating **Contact:** Eric Montoya **Phone:** (503) 239-4600

Project: Entek Manufacturing Inc. Lines 11 & 12

Address: 250 Hansard Avenue – Lebanon, OR.

Engineer: GHD Inc. **Contact:** Josh Dawkins **Phone:** (971) 245-1607

Mechanical: Comfort Flow Heating & Cooling **Contact:** Dan Agee **Phone:** (541) 726-0100

Project: Pandora

Address: 520 SW Yamhill St. Ste.510 – Portland, OR. 97204

Engineer: Henderson Engineers, Inc. **Contact:** John Passantino **Phone:** (913) 742-5000

General: Shrader & Martinez Const. Inc. **Contact:** Carol Bertinck **Phone:** (928) 282-7554

Mechanical: Arrow Mechanical **Contact:** Kevin Kruszewski **Phone:** (503) 793-2854

Project: Portland VA-Ward 9D Remodel

Address: 3710 SW US Veterans Hospital Rd. – Portland, OR. 97239

Engineer: Corbin Consulting Engineers, Inc. **Contact:** Mike Machinski **Phone:** (503) 645-0176

General: Glenmar Construction **Contact:** Dana Allen **Phone:** (503) 650-1720

Mechanical: JRT Mechanical Inc. **Contact:** Richard Sarkkinen **Phone:** (360) 666-0330

Project: COCC – Redmond Technology Education Center

Address: 2324 SE College Loop – Redmond, OR. 97756

Engineer: MFIA, Inc. **Contact:** Takako Baker **Phone:** (503) 234-0548

General: Kirby Nagelhout Construction **Contact:** Mike Carter **Phone:** (541) 389-7119

Mechanical: Cascade Heating & Specialties **Contact:** Joe Morse **Phone:** (541) 382-8483

Project: Portland Police Training Complex

Address: 14912 NE Airport Way

Engineer: Hood-McNess, Inc. **Contact:** Clifford M. Hood **Phone:** (503) 231-7825

General: 2KG Contractors **Contact:** Doug Sesney **Phone:** (503) 489-2020

Mechanical: Jacobs Heating **Contact:** Marcy Huxtable **Phone:** (503) 234-7331