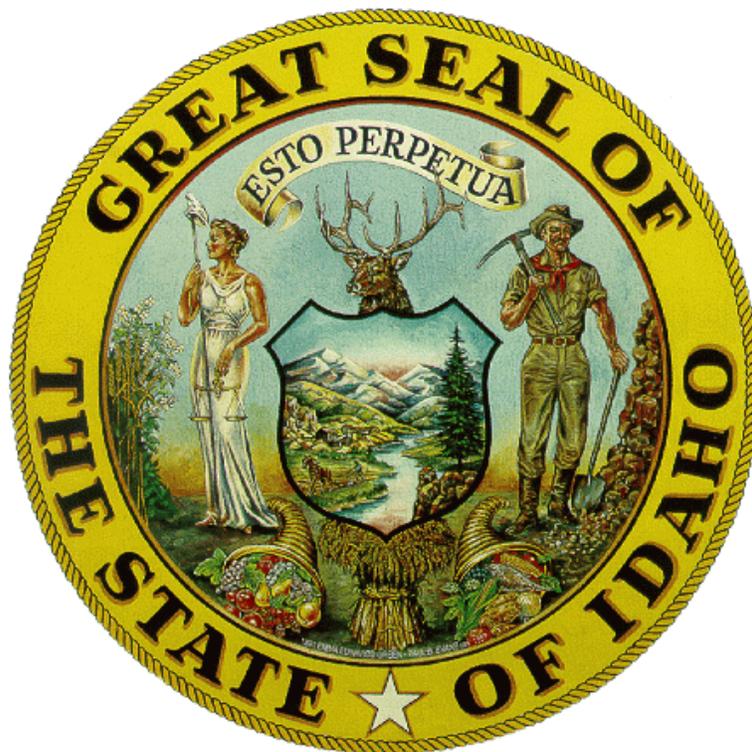


DIVISION OF BUILDING SAFETY

IDAHO HEATING, VENTILATION AND
AIR CONDITIONING BOARD
VIDEOCONFERENCE MEETING

MAY 18, 2011



IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 01

Agenda

OBJECTIVE: To approve the May 18, 2011 Idaho HVAC Board Meeting Agenda.

ACTION: Consent

BACKGROUND:

**PROCEDURAL
HISTORY:**

ATTACHMENTS: May 18, 2011 Idaho HVAC tentative Agenda



TENTATIVE AGENDA

NOTICE OF PUBLIC MEETING

**IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD
VIDEOCONFERENCE MEETING**

**Division of Building Safety
1090 East Watertower Street, Suite 150, Meridian, Idaho
1250 Ironwood Drive, Suite 220, Coeur d'Alene, Idaho
2055 Garrett Way, Building 2, Suite 7, Pocatello, Idaho
dbs.idaho.gov – (208) 332-7137**

***Wednesday, May 18, 2011
9:30 a.m. – 3:30 p.m. (MT)***

(Note: Meeting Time is 8:30 a.m. PT)

9:30 a.m. CALL TO ORDER – Dan Brizee, Chairman

- Roll Call & Introductions
- Open Forum

CONSENT AGENDA

1. Approval of the May 18, 2011 Agenda
2. Approval of the February 16, 2011 Board Meeting Minutes

INFORMATIONAL AGENDA

3. Pre-Apprenticeship Course – Rosie Rosco
4. Apprenticeship Programs and Grants – Jerry Peterson
5. Waste Oil Heating-Venting Restrictions – Lyndon Watts
6. 2010 Green Plumbing and Mechanical Code Supplement and Uniform Solar Energy Code – Dan Brizee
7. Exemption to Install Vents (Dryer, Exhaust Fan, and Range Hood) – Dan Brizee
8. Wood Stove Installations – Jerry Peterson
9. NFPA 211-Wood Burning and Oil Appliances into Masonry Chimney – Jerry Peterson
10. CSST and Fuel Gas Pipe Bonding Requirements – Jerry Peterson

11. Gas Meters – Jerry Peterson
 - a. 1” Minimum Stub Outs – 07.07.01.005.01(f)
 - b. Snow and Ice Protection – 07.07.01.005.01(e)
12. Energy Code Requirements and Implementation Dates – Jerry Peterson
13. Board Packets – Dan Brizee

**Noon -
1:00 p.m.**

LUNCH BREAK *(If needed)*

14. HVAC Program Manager Report – Jerry Peterson
15. Operational Report – Steve Keys
16. Administrator Report
 - a. CAS Update – C. Kelly Pearce and Janice Foster
 - b. Financial Report – C. Kelly Pearce and Kirk Weiskircher
 - c. Administrator – C. Kelly Pearce

NEW/OLD BUSINESS

EXECUTIVE SESSION *(If needed)*

3:30 p.m. ADJOURN

All times, other than beginning, are approximate and are scheduled according to Mountain Time (MT), unless otherwise noted. Agenda items may shift depending on Board preference. 05/10/11r

IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 02

Minutes

OBJECTIVE: To approve the minutes from the February 16, 2011 Idaho HVAC Board Meeting.

ACTION: Consent

BACKGROUND:

**PROCEDURAL
HISTORY:**

ATTACHMENTS: February 16, 2011 Idaho HVAC Board Meeting draft Minutes



**IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD
VIDEOCONFERENCE MEETING**

Wednesday – February 16, 2011 – 9:30 a.m. (MT)

**Division of Building Safety
1090 East Watertower Street, Meridian, Idaho
1250 Ironwood Drive, Suite 220, Coeur d’Alene, Idaho
2055 Garrett Way, Building 2, Suite 7, Pocatello, Idaho**

***DRAFT MINUTES OF THE FEBRUARY 16, 2011 MEETING**

**NOTE: The following report is not intended to be a verbatim transcript of the discussions at the meeting,
but is intended to record the significant features of those discussions.**

Chairman Dan Brizee called the meeting to order at 9:31 a.m. (MT).

Board Members Present:

Dan Brizee, Chairman
Ted Sermon
Bruce Graham
Bill Carter
Russ Goyen
Jon Laux

DBS Staff Members Present:

C. Kelly Pearce, Administrator
Steve Keys, Deputy Administrator, Operations
Patrick Grace, Deputy Attorney General
Jerry Peterson, HVAC Program Manager
Kirk Weiskircher, Financial Specialist, Principal
Chris Jensen, Regional Manager, Eastern Idaho
Rod Freligh, Plumbing/HVAC Supervisor, North Idaho
Renee Bryant, Administrative Assistant 2/Board Secretary

Board Members Absent:

Tim LaMott

◆ **Open Forum**

Exemption to Install Dryer Vents, Exhaust Fan Vents, and Range Hood Vents – Randy Wright, Weatherization Director for South Central Community Action Partnership (SCCAP), explained the non-profit Weatherization Assistance Program (WAP). SCCAP provides low income weatherization in the Treasure Valley, and is funded by the U.S. Department of Energy, and Health and Human Services through the Low Income Home Energy Assistance Program.

In November 2010, the Division informed SCCAP dryer vents, exhaust fan vents, and range hood vents must be permitted and installed by licensed HVAC contractors.

Mr. Wright requested the Board consider an exemption; allowing WAP installers to permit and install the various devices. A letter from the Idaho Department of Health and Welfare offered to work with DBS to develop a standard protocol for the installations that would meet the Division’s requirements while not having a detrimental effect on current program operations and/or program participants. Steve Keys explained the permit and license requirements are in statute and rule.

Dan Brizee asked this topic “Exemption to Install Dryer Vents, Exhaust Fan Vents, and Range Hood Vents” be included on the May agenda as an informational item.

ACTION: The item “Exemption to Install Dryer Vents, Exhaust Fan Vents, and Range Hood Vents” will be added as an informational item on the May 2011 Board Meeting Agenda.

Department of Energy Funding – Christina Zamora, Community Action Partnership Association of Idaho (CAPAI), elaborated on the mission of CAPAI and the funding provided by the Department of Energy. Ms. Zamora offered to provide, should the Board request, CAPAI’s operations manual.

Pre-Apprenticeship Course – Rosie Rosco, CWI, explained a pre-apprenticeship course will be offered in the fall of 2011. The course will allow individuals an opportunity to learn the basics of the construction trade. Subjects to be taught are: construction math, safety, blueprint reading, hand and power tools, communication, job readiness skills, and introduction into “green” environment.

At the request of Ted Sermon, Rosie Rosco will bring an outline of the course to the May 12, 2011 meeting for the Board’s review and possible support.

ACTION: The item “Pre-Apprenticeship Course” will be placed on the May 18, 2011 Agenda as an informational item.

2010 Green Plumbing and Mechanical Code Supplement and Uniform Solar Energy Code – Pete Crow, IAPMO, asked the Board to place the review of the 2010 Green Plumbing and Mechanical Code Supplement and Uniform Solar Energy Code on the May 18th Agenda as an action item.

The topic “2010 Green Plumbing and Mechanical Code Supplement and Uniform Solar Energy Code” will be placed on the May 18th Agenda as an informational item; allowing the Board an opportunity to review the supplement and code.

ACTION: The topic “2010 Green Plumbing and Mechanical Code Supplement and Uniform Solar Energy Code” to be placed as an informational item on the May 18, 2011 Agenda.

◆ **Approval of February 16, 2011 Agenda**

MOTION: Ted Sermon made a motion to approve the February 16, 2011 Agenda as presented. Bill Carter seconded. All in favor, motion carried.

◆ **Approval of October 13, 2010 Board Meeting Minutes**

MOTION: Ted Sermon made a motion to approve the October 13, 2010 Board Meeting Minutes as written. Bill Carter seconded. All in favor, motion carried.

◆ **Workforce Training and Apprenticeship**

Plumbing, HVAC, and Electrical State Licensure Apprenticeship Programs – Professional-Technical Education (PTE) represents six technical colleges: North Idaho College, Lewis Clark State College, Idaho State University College of Technology, College of Southern Idaho, College of Western Idaho, and Eastern Idaho Technical College.

In the summer of 2010, school representatives met to develop a standard curriculum for the Electrical, HVAC, and Plumbing State Licensure Apprenticeship programs. The goal is to achieve the same skill level upon completion of course work by teaching the same competencies. The term “curriculum” is defined as course outline and competencies. Online courses are being developed by each technical college. There are no geographic boundaries for the delivery of online courses; therefore, a technical college cannot actively recruit outside its region.

Hybrid Classes – Due to costs, CWI will offer hybrid classes, half online/half classroom, in the fall of 2011. This class format will allow apprentices more lab time.

Grant – Currently, there is a \$20 million grant available for Idaho’s educational system. Irene Vogel, PTE, stated a provision in the grant requires participants in any apprenticeship program to be registered with the U.S. Department of Labor, Office of Apprenticeship. The majority of contractors are not registered; therefore, technical colleges are not eligible to apply for the grant.

ACTION: The Division will arrange for a representative from the U. S. Department of Labor, Office of Apprenticeship, to attend the May 18, 2011 Idaho HVAC Board meeting to discuss the apprenticeship program and grants associated with the program.

◆ **Wood Stoves**

Installation in Garages – According to the 2006 and 2009 International Mechanical Code (IMC) a wood stove is an appliance; however, there is no provision in the IMC for unlisted or unlabeled stoves. Although the definition of appliance is clear in the IMC; solid fuel stoves and fireplaces are not currently referenced in statute or rule for regulation under the HVAC Program. A simple change in statute, “solid fuel burning furnaces” to “solid fuel burning appliances”, would cover the enforcement aspect. A draft rule to address clearances for non-listed and non-labeled appliances would be required as well.

The entire International Residential Code (IRC) has been adopted by local jurisdictions. The state and legislature only adopted parts five and six of the code. Therefore, when it comes to residential occupancies, all the state has to work with in terms of tools are the statutes and the two parts of the rules.

For the May 2011 Board meeting, Jerry Peterson offered to provide a simple change in statute to include solid fuel appliances and the adoption of the rules. He would also supply a bulletin to all inspectors and local jurisdictions on the Board’s interpretation of the alternate methods under the existing statute and rule.

ACTION: Jerry Peterson will bring a draft statute change to the May 2011 meeting, and provide a bulletin to interested parties on the alternate methods currently in the existing statute and rules.

Primary Heat Source – There is nothing in the codes that prohibits solid fuel burning appliances from being the primary heat source in a house. Jerry Peterson recommended local jurisdictions requiring heat load calculations enforce the energy code. State inspectors would continue to provide safety inspections; i.e., check for clearances and compliance, on schools, manufactured homes and state buildings.

NFPA 211 – As it pertains to the hook-ups of wood burning and oil appliances to masonry chimneys, the question asked was when chimney liners are required. There is not a great deal of clarity in the existing codes. NFPA 211 is one reference source. It is very clear on clay liners and gives installers the option to have chimney’s certified by chimney sweep or trained individuals should a visual inspection not be satisfactory. Contractors expressed NFPA 211 provides good material; however, is too stringent.

Jerry Peterson would like local jurisdictions to provide feedback to him on this issue; coming back to the May 2011 Board meeting with additional material and options for the Board's consideration.

ACTION: As an informational item for the May 2011 Board meeting, Jerry Peterson will bring additional materials/suggestions on the requirement of liners.

◆ **90% + Furnace Venting Requirements PVC vs. ABS**

Transition Glue and Mixing Fittings – This has been an ongoing problem for inspectors due to the mixing of vent products and usage of transition glue for applications. (Transition glue is only allowed in plumbing for joints outside the foundation and is not designed for applications.)

Upon speaking with several Treasure Valley city inspectors, none of those cities allow mixed (dissimilar) pipe or fittings; requiring PVC with the appropriate primer and glue associated with applications.

For clarity, Jerry Peterson would like to publish a bulletin for DBS inspectors requesting all venting be done in accordance to application standards. This would not allow for transition glue, mixed fittings or mixed pipe. PVC requirements call for a contrasting color for primer so inspectors can easily tell when joints have been primed and glued.

ACTION: For the May 2011 meeting, Jerry Peterson will bring a bulletin for the Board's review.

◆ **Carbon Monoxide (CO) Monitors and Testing**

The Division has received numerous calls from contractors on whether the state will require CO alarms in new construction. Unfortunately, this issue falls outside the sections of the IRC the state has adopted.

CO is colorless and odorless, and although there have been no reported fatalities in Idaho, there have been multiple reported incidents. The Division is taking a proactive approach to this problem by providing inspector training, public education, and testing of small cost-effective CO detectors for possible use by all DBS inspectors.

A chart was handed out on the symptoms of CO poisoning; the inhalation time and symptoms to different amounts of CO concentration in the air.

Kelly Pearce stated all DBS bulletins will be placed on the Division's website under the respective programs with a highlighted device to call attention to them.

ACTION: DBS Bulletins will be placed on the Division's website under the respective programs.

◆ **Corrugated Stainless Steel Tubing (CSST) and Fuel Gas Pipe Bonding Requirements**

This item was brought forward by a letter issued by the City of Twin Falls. There is an assumption bonding (no voltage) would fall under the scope of gas piping, which HVAC and Plumbing currently install. However, there is nothing in the current code or statute that addresses bonding because it is not necessarily an HVAC installation, but a fuel gas installation.

Jerry Peterson spoke with DBS Electrical Program Manager Al Caine. Upon reviewing older rules and statutes in regards to an electrical specialty license, Mr. Caine had no issues with gas pipers doing the fuel gas installation, and believes this issue falls under HVAC's current scope of work.

At the suggestion of the Board, Jerry Peterson will address the bonding requirements with the Idaho Electrical Board; bringing his findings to the May 2011 Idaho HVAC Board meeting.

ACTION: Jerry Peterson will discuss with the Idaho Electrical Board the bonding requirements; bringing his findings to the May 2011 meeting.

◆ **Gas Meter**

1" Minimum Stub Outs-07.07.01.005.01(g) – Earlier in the year, Jerry Peterson met with local contractors, Intermountain Gas, and CSST manufacturer representatives in Ketchum to determine the best practices for installing CSST.

It was the consensus at the Ketchum meeting, as well as the HVAC Board, to require a 1" minimum metallic pipe be stubbed out from the house or building to the meter.

IDAPA 07.07.01.005.01(g) "405.2 Point of Termination" is not valid or relevant as there is nothing in the International Fuel Gas Code (IFGC) in regards to termination. Plumbers reference the Uniform Plumbing Code (UPC) to install fuel piping. Since HVAC installers are not covered under the IFGC, the solution would be to delete the existing reference to code with the removal of section 405.2 and add similar language to the UPC requiring a minimum of 1" rigid piping.

ACTION: For the May 2011 meeting, Jerry Peterson will bring a proposed rule; removing section 405.2 from 07.07.01.005.01(g) and adding similar language to the UPC.

Snow and Ice Protection-07.07.01.005.01(f) – Meters and meter protection are the jurisdiction of the utility companies. Meter protection devices are carried on their trucks to be installed as needed. The only responsibility the state and local jurisdictions have is the connection to the meters.

The existing rule, 07.07.01.005.01(f) "Installation in Areas of Heavy Snowfall", is not valid or relevant. After researching all Idaho HVAC adopted codes, Jerry Peterson could find no reference to meter protection.

In the interest of consistency with local jurisdictions, this requirement should be deleted in its entirety. Should local jurisdictions feel a need to require meter protection, they are free to do that.

ACTION: For the May 2011 meeting, Jerry Peterson will bring a proposed rule; deleting 07.07.01.005.01(f).

◆ **Changes to Statute or Rule**

The following are housekeeping changes to statute and rules:

Bonding Requirement Needs Clarification for Duration of Certificate of Competency-07.07.01.021.01 and 07.07.01.022.01, Statute 54-5007 – There is nothing in statute or rules that requires an HVAC Contractor or HVAC Specialty Contractor to maintain their bond for the

duration of their license period. Also, in rule the bond is called a “performance bond”; however, it is actually a “code compliance bond”.

Remove Color Reference (red) 07.07.012.060.02(b) on Inspection Tags and Change “Unacceptable” to “Corrections Required” or Equivalent to Match Tag – Remove color reference (red) and modify the rule to reflect the language of the current tags.

Reword 54-5015(4) to Define Scope of Work Closer to the Original Electrical Specialty License for HVAC Installers Including Reference to Electrical Bonding for Gas Lines – This item was addressed under item 07 “CSST and Fuel Gas Pipe Bonding Requirements”.

◆ **HVAC Program Manager Report**

Industry Training – DBS, in conjunction with Office of Energy Resource (OER), provided Duct Leakage training throughout the state. Additional training will be forthcoming.

Inspector Training – Beginning March 1st DBS HVAC inspectors will attend an 11-week videoconference training. The course will address substantial changes in the 2009 code, the energy code requirements, and life safety issues.

The Division is able to hold videoconference training in north Idaho, eastern Idaho and the Treasure Valley. Dan Brizee would like a site in the Magic Valley so inspectors and industry are not losing a whole day of inspections, specifically emergency situations, due to travel time and training.

ACTION: The Division will research videoconference capabilities in the Magic Valley.

Energy Code Requirements & Implementation Dates – There are requirements in the new codes not being enforced. Implementation dates need to be established and the industry needs to be informed of the state’s enforcement procedures.

Until further notice, Dan Brizee would like this issue addressed at all regularly scheduled HVAC Board meetings.

ACTION: Beginning at the May 2011 meeting, the topic “Energy Code Requirements & Implementation Dates” will be an informational item on all regularly scheduled HVAC Board Meeting Agendas.

HVAC Code Reference Guide – The International Code Council (ICC) provided and the Division circulated an all-weather HVAC code reference book. The booklet is not a replacement of the code, but a reference guide.

ICC--Code Updates – Doug Hatch, ICC’s Northwest Representative, requested information on code updates to make sure the state’s HVAC test is relevant and correct. He also researched any substantial differences between the IFGC and UPC so the Board can address/resolve the differences.

Weatherization Programs – Jerry Peterson reiterated the concern, as addressed during “Open Forum” by Randy Wright, of WAP installers requesting to perform seal duct work when statute

and rules require a licensed HVAC contractor and Journeyman provide the service. The Board was asked to consider the current requirements; providing Mr. Peterson with feedback.

◆ **Operational Report**

Legislative Report – H0072 adjusts the Board’s terms; staggering the reappointment dates. It also changes the basis of pay from a salary to an honorarium to accommodate private retirement accounts. The bill has been reviewed and approved by the House Business and Senate Commerce and Human Resources Committees. It will become permanent and effective on July 1, 2011.

The proposed rule to adopt the 2009 editions of the IMC, IFGC, and IRC has been approved by both committees. It will become effective upon the adjournment of the legislature.

HVAC Program Manager – Steve Keys acknowledged and praised Jerry Peterson on his contributions to the agency in his position as the HVAC Program Manager.

HVAC Revenue – The HVAC Program is fairing reasonably well relative to other programs in the Agency. HVAC’s revenues, December 2010 and January 2011, have exceeded the Plumbing Program’s revenues.

◆ **Administrator Report**

CAS – As of December 2010, 55% of permits are purchased online.

Furloughs vs. Layoffs – Kelly Pearce explained the difference between furloughs and layoffs, and why the Division has chosen layoffs.

Personnel – In 2007, the Division was authorized 152 full-time employees. As of today, there are 114 full-time positions. Additional layoffs will be required.

Building Remodel/Rental – The Department of Labor will sublease from DBS 43% of the Meridian office space. Over the next ten years, the Division anticipates a savings of \$1.5 million in rent.

Contracts with Idaho Tribes – The Division has contracted with the Coeur d’Alene Tribe to perform plan reviews on the following projects: multi-million dollar casino, Worley; transportation center to house public transportation busses, Coeur d’Alene; and medical facility, Coeur d’Alene.

There is discussion with other tribes for the Division to provide the same services currently afforded the Coeur d’Alene Tribe.

City of Ketchum Contract – The Division has signed a contract with the City of Ketchum to undertake the building inspection duties. DBS has also regained the HVAC inspection responsibilities, which the city had been doing for the past 18 months.

Contract with Office of Energy Resources – The Division has created a contract through OER for \$350,000. With the funds, the Division will create a statewide tracking system for energy resource activities.

HVAC Program Manager Jerry Peterson generated several grants through OER and other energy resource programs to train DBS inspectors in energy areas.

Financial Report – Kirk Weiskircher reviewed the HVAC Board Fund Fiscal Year 2011 Financial Statements as of December 31, 2010.

Compliance – There continues to be a growing problem throughout the State of Idaho where a large number of contractors are working without proper licensure. The Division persists in the discussion to implement a statewide compliance program; leveraging the experience and training of all personnel.

◆ **New Business**

There was no new business to discuss.

◆ **Executive Session**

An Executive Session was not required.

MOTION: Ted Sermon made a motion to adjourn the Meeting. Chairman Brizee so moved and adjourned the meeting 12:50 p.m. (MT).

DAN BRIZEE, CHAIRMAN
HEATING, VENTILATION AND
AIR CONDITIONING BOARD

C. KELLY PEARCE, ADMINISTRATOR
DIVISION OF BUILDING SAFETY

DATE

DATE

*These DRAFT minutes are subject to possible correction and final approval by the Idaho Heating, Ventilation and Air Conditioning Board. 05/10/11rb

IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 03

Pre-Apprenticeship Course

OBJECTIVE: Encourage individuals to pursue a career in the Electrical, HVAC, or Plumbing trade.

ACTION: Informational

BACKGROUND: CWI will offer a pre-apprenticeship course in the fall of 2011. The course allows individuals an opportunity to learn the basics of any construction trade.

**PROCEDURAL
HISTORY:**

ATTACHMENTS: Intro to Apprenticeships (Electrical, Plumbing, HVAC)



Intro to Apprenticeships
(Electrical, Plumbing, HVAC)

Total Hours – 78

This course is intended for individuals interested in obtaining apprenticeship jobs in the Electrical, Plumbing, or HVAC fields. Idaho State-approved Apprenticeship Programs in Electrical, Plumbing and HVAC fields, which include both on-the-job training and classroom instruction, lead to journeymen licenses in the respective fields.

The course will introduce the student to the construction trades and allow the student to choose a trade of his/her choice. Successful completion will give the student an advantage when applying for apprenticeship positions in all trades.

In addition, successful completion of this course will give the student credit equal to the first semester of either the Plumbing or HVAC Apprenticeship Programs. It will not give credit toward the Electrical Apprenticeship Program due to the large amount of electrical theory in the first semester of that program.

- **Basic Safety (includes OSHA 10-hour certification)** 12 hours
 - Ladders and stairs
 - Fall protection
 - Electrical – lockout-tagout
 - Materials
 - Use
 - Handling
 - Storage
 - Cranes
 - Scaffolds
 - Trenching / excavation
 - Personal protective equipment
 - Performance of basic construction tasks safely
 - What to do in case of an accident
 - Confined spaces
 - Basic rigging
 - MSDS
 - Basic hand and power tools

- **Introduction to Hand Tools** 3 hours
 - Purpose and use of
 - Wrenches
 - Saws
 - Hammers
 - Pipe Threaders
 - Measuring instruments
 - Instructions on safe use and maintenance
 - Oxy acetylene torches

- **Introduction to Power Tools** 3 hours
 - Purpose and use of
 - Drills
 - Saws
 - Grinders
 - Powder Actuated Tools
 - Pneumatic Tools
 - Instructions on safe use and maintenance

- **Introduction to Construction Math** **30 hours**
 - Whole numbers
 - Addition and subtraction
 - Fractions
 - Decimals
 - Measurement of
 - Lines
 - Area
 - Volume
 - Weights
 - Angles

- **Introduction to Construction Drawings** **12 hours**
 - Drawing terms, components, and symbols
 - Types of construction drawings
 - Drawing classifications
 - Drawing dimensions and scales

- **Introduction to the Electrical Industry** **6 hours**
 - Intro to the NEC
 - Intro to Electrical Theory including hands-on demonstration
 - The Electrician's Role in the Green Environment including Best Practices, Tools, and Strategies

- **Introduction to the HVAC Industry** **6 hours**
 - Intro to HVAC Codes
 - Intro to Various Aspects of the HVAC Field including hands-on demonstration in the lab
 - The HVAC Tech's Role in the Green Environment including Best Practices, Tools, and Strategies

- **Introduction to the Plumbing Industry** **6 hours**
 - Intro to the Uniform Plumbing Code
 - Intro to Various Aspects of the Plumbing Field including Hands-on demonstration in the lab
 - The Plumber's Role in the Green Environment including Best Practices, Tools, and Strategies

IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 04

Apprenticeship Programs and Grants

OBJECTIVE: Inform the Board and industry of the availability of grants associated with apprenticeship programs.

ACTION: Informational

BACKGROUND: There is currently a \$20 million grant available for Idaho's educational system. At the February 16th HVAC Board meeting, Irene Vogel, PTE, stated a provision in the grant requires participants in any apprenticeship program to be registered with the U.S. Department of Labor, Office of Apprenticeship. The majority of contractors are not registered; therefore, technical colleges are not eligible to apply for the grant.

PROCEDURAL HISTORY:

ATTACHMENTS: No documentation



IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 05

Waste Oil Heating-Venting Restrictions

OBJECTIVE: Change the current restrictions on venting of waste oil heating appliances.

ACTION: Informational

BACKGROUND: Lyndon Watts has applied for a Waste Oil Heating specialty license and would like the Idaho HVAC Board to change the current restrictions on venting of waste oil heating appliances.

**PROCEDURAL
HISTORY:**

ATTACHMENTS: No documentation



IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 07 Exempt. to Install Vents-Dryer/Exhaust Fan/Range Hood

OBJECTIVE: For the Board to consider an exemption allowing Weatherization Assistance Program (WAP) installers to permit and install dryer vents, exhaust fan vents, and range hood vents without the required license.

ACTION: Informational

BACKGROUND: In November 2010, the Division informed South Central Community Action Partnership that dryer vents, exhaust fan vents, and range hood vents must be permitted and installed by licensed HVAC contractors.

At the February 2011 HVAC Board meeting, Mr. Wright requested the Board consider an exemption; allowing WAP installers to permit and install the various devices. As explained by Steve Keys, the permit and license requirements are in statute and rule.

PROCEDURAL HISTORY:

ATTACHMENTS: No documentation



IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 08

Wood Stove Installations

OBJECTIVE: To define, in statute, wood stoves as appliances.

ACTION: Informational

BACKGROUND: The HVAC Board felt solid fuel stoves and fireplaces should be inspected for life safety reasons; however, have not adopted statutes or rules for enforcement.

At the February 2011 Board meeting, Jerry Peterson explained a wood stove is defined in the 2006 and 2009 International Mechanical Code (IMC) is an appliance; however, there is no provision in the IMC for unlisted or unlabeled stoves. Although the definition of appliance is clear in the IMC; solid fuel stoves and fireplaces are not currently referenced in statute or rule for regulation under the HVAC Program. A simple change in statute, “solid fuel burning furnaces” to “solid fuel burning appliances”, would cover the enforcement aspect.

PROCEDURAL HISTORY:

ATTACHMENTS: Idaho Code §54-5003 “Definitions”



§ 54-5003. Definitions

As used in this chapter:

(1) "Heating, ventilation and air conditioning (HVAC)" means and includes the business, trade, practice or work, materials and fixtures used in the design, construction, installation, improvement, extension and alteration of all piping, venting, ductwork, appliances and appurtenances in connection with any heating, ventilation or air conditioning system or subsystems of such.

(2) "Heating, ventilation and air conditioning apprentice" means any person who, as his principal occupation, is engaged in learning and assisting in installation, improvement, extension, alteration or repair of HVAC systems. An apprentice shall perform HVAC work under the supervision of an HVAC journeyman or HVAC contractor.

(3) "Heating, ventilation and air conditioning contractor" means any person who fabricates, installs, maintains, services and repairs warm air heating and water heating systems, heat pumps, complete with warm air appliances including, but not limited to, boilers, pool heaters, space heaters, decorative gas and solid-fuel burning furnaces appliances, and gas, propane, electric or oil-fired water heaters; ventilating systems complete with blowers and plenum chambers; air conditioning systems complete with air conditioning unit and the ducts, registers, flues, humidity and thermostatic controls of air, liquid or gas temperatures below fifty (50) degrees fahrenheit or ten (10) degrees celsius, and air filters in connection with any of these systems.

(4) "Heating, ventilation and air conditioning journeyman" means any person who, as his principal occupation, is engaged in the installation, improvement, extension, alteration or repair of HVAC systems and who is familiar with the provisions of this chapter and who works in the employ and under direction of an HVAC contractor.

(5) "Heating, ventilation and air conditioning specialty apprentice including specialty limited heating apprentice" means any person who, as his principal occupation, is engaged in learning and assisting in a specific aspect of installation, improvement, extension, alteration or repair of HVAC systems that includes, but is not limited to, such aspects as gas piping, gas appliances and installation, or decorative gas-fired appliances. A specialty apprentice shall perform HVAC work under the supervision of an HVAC journeyman, HVAC specialty journeyman, HVAC contractor or an HVAC specialty contractor.

(6) "Heating, ventilation and air conditioning specialty contractor including specialty limited heating contractor" means any person who, as his principal occupation, is engaged in a specific aspect of the heating, ventilation and air conditioning trade that includes, but is not limited to, such aspects as gas piping, gas appliances and installation, or decorative gas-fired appliances.

(7) "Heating, ventilation and air conditioning specialty journeyman including specialty limited heating journeyman" means any person who, as his principal occupation, is engaged in a specific aspect of installation, improvement, extension, alteration or repairing of HVAC systems that includes, but is not limited to, such aspects as gas piping, gas appliances and installation, or decorative gas-fired appliances. A specialty journeyman is familiar with the

provisions of this chapter and works in the employ and under direction of an HVAC contractor or an HVAC specialty contractor.

(8) "Heating, ventilation and air conditioning system" means any heating, ventilation or air conditioning system in a residential, private, public or semipublic building or structure including, but not limited to, any mechanical means of heating or air conditioning and to gas piping, venting, ductwork and controls.

(9) "Local government" means any incorporated city or any county in the state.

(10) "Specialty limited heating" as it applies to the definitions of "heating, ventilation and air conditioning specialty apprentice," "heating, ventilation and air conditioning specialty contractor" and "heating, ventilation and air conditioning specialty journeyman" means any person who installs, maintains, services and repairs LP gas fired appliances, LP fuel gas piping and related exhaust venting. This definition of specialty limited heating shall exclude boilers, hydronic systems, ducted forced air systems, ventilating and air conditioning systems, systems with a BTU input rating over three hundred thousand (300,000), solid fuel and electric fueled systems. A "specialty limited heating journeyman" is required to meet the experience requirement and either the education or examination requirement set forth in this section to receive a certificate of competency. The education of a "specialty limited heating journeyman" shall include one hundred twenty (120) hours of instruction approved by the board of professional-technical education in LP gas specialty education. The experience requirement of a "specialty limited heating journeyman" shall be two (2) years' experience working in the trade, in compliance with the requirements of the state in which the applicant received his supervision or as a registered HVAC apprentice or registered HVAC specialty apprentice making HVAC installation on the job under the supervision of a qualified HVAC journeyman or qualified HVAC specialty journeyman. The examination required in this section shall be developed by the board of professional-technical education and approved by the Idaho heating, ventilation and air conditioning board.

IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 09 NFPA 211–Wood Burning/Oil Appls into Masonry Chimney

OBJECTIVE: To clarify whether a masonry chimney needs a new liner.

ACTION: Informational

BACKGROUND: As it pertains to the connection of wood burning or oil appliances to masonry chimneys, the question arose when a chimney liner is required.

NFPA 211 is one reference source. It is very clear on clay liners and gives installers the option to have chimney's certified by chimney sweep or trained individuals should a visual inspection not be satisfactory. Contractors expressed NFPA 211 provides good material; however, is too stringent.

At the February 2011 Board meeting, Jerry Peterson requested local jurisdictions provide feedback to him on this issue.

**PROCEDURAL
HISTORY:**

ATTACHMENTS: Documentation to be distributed at the meeting



IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 10 CSST and Fuel Gas Pipe Bonding Requirements

OBJECTIVE: To inform the HVAC Board of the Electrical Board's interpretation of bonding requirements for installers of fuel gas appliances.

ACTION: Informational

BACKGROUND: DBS received a letter from the City of Twin Falls requiring an Electrical license and additional Electrical permit for bonding of fuel gas piping.

There is nothing in the current code that addresses bonding as it is not necessarily an HVAC installation, but a fuel gas installation.

Jerry Peterson has spoken with DBS Electrical Program Manager Al Caine. He has no issues with gas pipers doing the fuel gas installation, and believes this issue falls under HVAC's current scope of work.

PROCEDURAL HISTORY:

ATTACHMENTS: No documentation



IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 11a Gas Meters - 1” Mini Stub Outs - IDAPA 07.07.01.005(f)

OBJECTIVE: To remove section 405.2 from IDAPA 07.07.01.005 “Adoption and Incorporation by Reference of the International Fuel Gas Code, 2009 Edition”.

ACTION: Informational

BACKGROUND: In early 2011, Jerry Peterson met in Ketchum with interested parties to determine the best practices to install CSST. It was the consensus at the Ketchum meeting, and at the February 2011 HVAC Board meeting to require a 1” minimum metallic pipe be stubbed out from the house or building to the meter.

Currently, IDAPA 07.07.01.005.01(f) “405.2 Point of Termination” is not valid or relevant as there is nothing in the International Fuel Gas Code (IFGC) in regards to termination. Plumbers reference the Uniform Plumbing Code (UPC) to install fuel piping. Since plumbers are covered by the UPC and HVAC installers are not covered under the IFGC, the solution would be to delete the existing reference to code and add similar language to the UPC requiring a minimum of 1” rigid piping.

PROCEDURAL HISTORY: Discussions with Intermountain Gas, Avista and CSST Manufacturer’s Rep.

ATTACHMENTS: IDAPA 07.07.01.005.01(f)



IDAPA 07
TITLE 07
CHAPTER 01

005. ADOPTION AND INCORPORATION BY REFERENCE OF THE INTERNATIONAL FUEL GAS CODE, 2009 EDITION.

01. International Fuel Gas Code. The 2009 Edition, including appendixes “A, B, C, and D,” (herein IFGC) is adopted and incorporated by reference with the following amendments:
(4-7-11)

a. Where differences occur between the IFGC and Title 54, Chapter 50, Idaho Code and IDAPA 07, Title 07, the provisions in Idaho Code and IDAPA rules shall apply.
(4-11-06)

b. All references to the International Plumbing Code (IPC) shall be construed as referring to the Uniform Plumbing Code (UPC) as adopted and amended by the Idaho State Plumbing Board.
(4-11-06)

c. All references to the International Code Council Electrical Code (ICC EC) shall be construed as referring to the National Electrical Code (NEC) as adopted and amended by the Idaho State Electrical Board.
(4-11-06)

d. Section 109. Delete. (7-1-10)

e. 405.1. Installation in Areas of Heavy Snowfall. In areas where heavy snowfall is anticipated, piping, regulators, meters, and other equipment installed in the piping system shall be protected from physical damage, including falling, moving, or migrating snow and ice. If an added structure is used for protection, it must provide access for service and comply with local building codes.
(7-1-10)

~~**f.** 405.2. Point of Termination. Gas piping stubbed out for a meter or regulator connection shall be a minimum of three (3) feet horizontally from any building opening, and not less than five (5) feet horizontally from any source of ignition, opening to direct vent (sealed combustion system) appliance, or mechanical ventilation air intakes. (7-1-10)~~

~~**g.** Section 406.4. Change the last sentence to: Mechanical gauges used to measure test pressure shall have a range such that the highest end of the scale is not greater than two (2) times the test pressure nor lower than one and one half (1.5) times the test pressure. (4-11-06)~~

hf. Section 406.4.1. Test Pressure. Not less than twenty (20) psig (140kPa gauge) test pressure shall be required for systems with a maximum working pressure up to ten (10) inches water column. For systems with a maximum working pressure between ten (10) inches water column and ten (10) psig (70kPa gauge); not less than sixty (60) psig (420kPa gauge) test pressure shall be required. For systems over ten (10) psig (70kPa gauge) working pressure, minimum test pressure shall be no less than six (6) times working pressure. (4-11-06)

ig. Section 406.4.2. The test duration shall not be less than twenty (20) minutes.
(4-11-06)

jh. Section 408.4. Sediment Trap. Delete the last sentence and replace it with the following: Illuminating appliances, ranges, clothes dryers, outdoor grills, decorative vented appliances for installation in vented fireplaces, and gas fireplaces need not be so equipped.
(4-7-11)

ki. Section 505.1.1. Addition. An interlock between the cooking appliance and the exhaust hood system shall not be required for appliances that are of the manually operated type and are factory equipped with standing pilot burner ignition systems.
(4-11-06)

02. Availability of the International Fuel Gas Code. The 2009 Edition is available at the Division of Building Safety offices located at 1090 E. Watertower St., Meridian, Idaho 83642, 1250 Ironwood Dr., Ste. 220, Coeur d'Alene, Idaho 83814, and 2055 Garrett Way, Ste. 7, Pocatello, Idaho 83201.
(4-7-11)

IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 11b Gas Meters - Snow and Ice Protection - 07.07.01.005.01(e)

OBJECTIVE: To remove section 405.1 from IDAPA 07.07.01.005 “Adoption and Incorporation by Reference of the International Fuel Gas Code, 2009 Edition”.

ACTION: Informational

BACKGROUND: Meters and meter protection are the jurisdiction of the utility companies. The only responsibility the state and local jurisdictions have is the connection to the meters.

The existing rule, 07.07.01.005.01(e) “401.1 Installation in Areas of Heavy Snowfall”, is not valid or relevant. After researching all Idaho HVAC adopted codes, Jerry Peterson could find no reference to meter protection.

In the interest of consistency with local jurisdictions, this requirement should be deleted in its entirety. Should local jurisdictions feel a need to require meter protection, they are free to do that.

**PROCEDURAL
HISTORY:**

ATTACHMENTS: IDAPA 07.07.01.005.01(e)



IDAPA 07
TITLE 07
CHAPTER 01

005. ADOPTION AND INCORPORATION BY REFERENCE OF THE INTERNATIONAL FUEL GAS CODE, 2009 EDITION.

01. International Fuel Gas Code. The 2009 Edition, including appendixes “A, B, C, and D,” (herein IFGC) is adopted and incorporated by reference with the following amendments:
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(4-11-06)

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(4-11-06)

c. All references to the International Code Council Electrical Code (ICC EC) shall be construed as referring to the National Electrical Code (NEC) as adopted and amended by the Idaho State Electrical Board.
(4-11-06)

d. Section 109. Delete. (7-1-10)

~~**e.** 405.1. Installation in Areas of Heavy Snowfall. In areas where heavy snowfall is anticipated, piping, regulators, meters, and other equipment installed in the piping system shall be protected from physical damage, including falling, moving, or migrating snow and ice. If an added structure is used for protection, it must provide access for service and comply with local building codes. (7-1-10)~~

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(4-7-11)

IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 12 Energy Code Requirements & Implementation Dates

OBJECTIVE: To update the Board on current implementation dates and documentation as it pertains to the state's enforcement procedures on the new energy code.

ACTION: Informational

BACKGROUND: Until further notice from the HVAC Board Chairman, this topic will be addressed at all regularly scheduled Idaho HVAC Board meetings.

**PROCEDURAL
HISTORY:**

ATTACHMENTS: No documentation



IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 13

Board Packets

OBJECTIVE: Eliminate mailing hard copies of the board packets to the HVAC board members.

ACTION: Informational

BACKGROUND: With the downturn of the economy and the time/money it takes to create/mail board packets, Chairman Brizee suggested the Board receive the packets electronically.

**PROCEDURAL
HISTORY:**

ATTACHMENTS: No documentation



IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 14

HVAC Program Manager Report

OBJECTIVE: Report the recent activities of the HVAC program.

ACTION: Informational

BACKGROUND: This topic is addressed at all regularly scheduled Idaho HVAC Board meetings.

**PROCEDURAL
HISTORY:**

ATTACHMENTS: No documentation



IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 15

Operational Report

OBJECTIVE: Provide an overview of the daily operations of the HVAC program and DBS.

ACTION: Informational

BACKGROUND: This topic is addressed at all regularly scheduled Idaho HVAC Board meetings.

**PROCEDURAL
HISTORY:**

ATTACHMENTS: No documentation



IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 16a

CAS Update

OBJECTIVE: Update the Board on current changes to the Division's computer program.

ACTION: Informational

BACKGROUND: This topic is addressed at all regularly scheduled Idaho HVAC Board meetings.

**PROCEDURAL
HISTORY:**

ATTACHMENTS: No documentation



IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 16b

Financial Report

OBJECTIVE: Review the Idaho Heating, Ventilation and Air Conditioning Board's Financial Report.

ACTION: Informational

BACKGROUND:

PROCEDURAL This topic is addressed at all regularly scheduled Idaho HVAC Board meetings.

HISTORY:

ATTACHMENTS: HVAC Board's Financial Report





Division of Building Safety

IDAHO HVAC BOARD FUND

Fiscal Year 2011 Financial Statements

As of 3/31/2011

Statement of Revenues and Expenditures

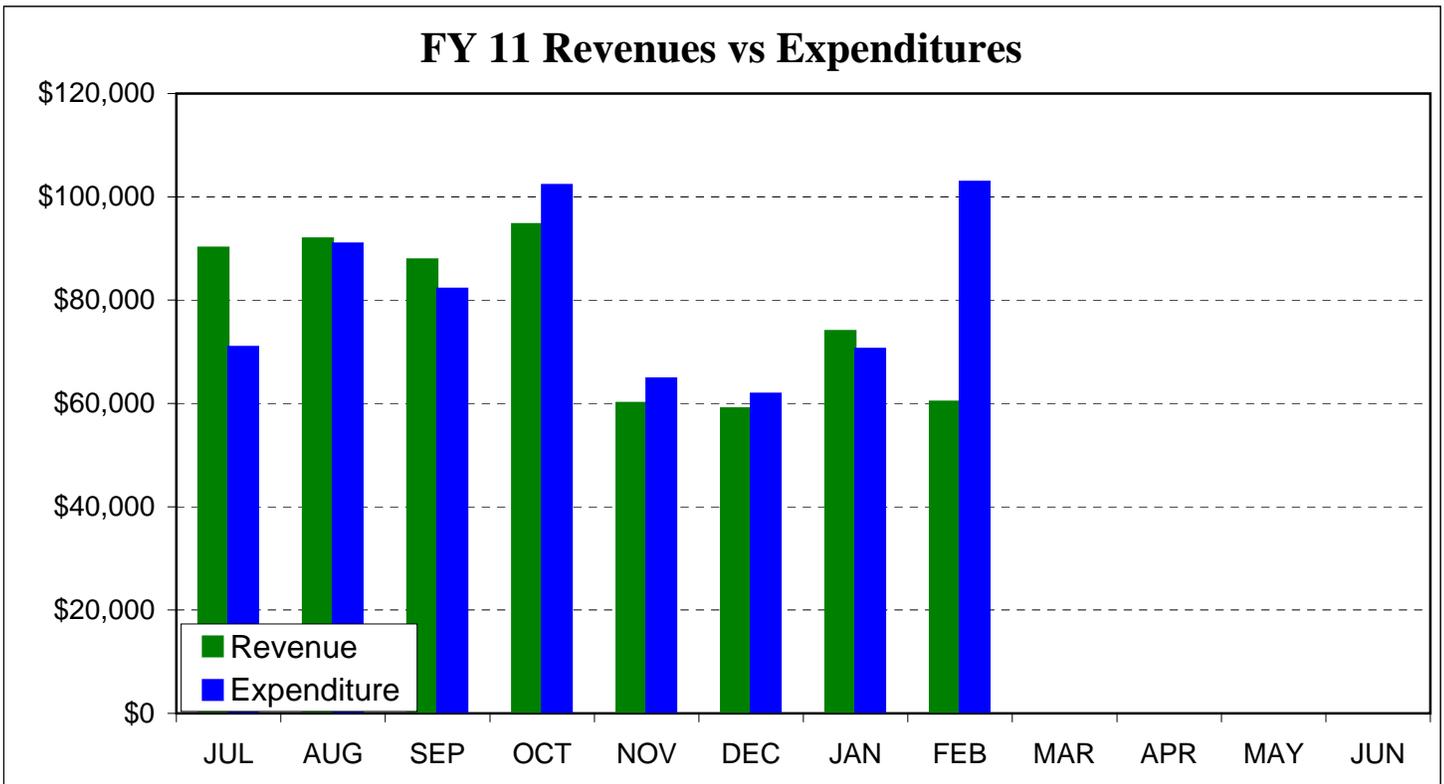
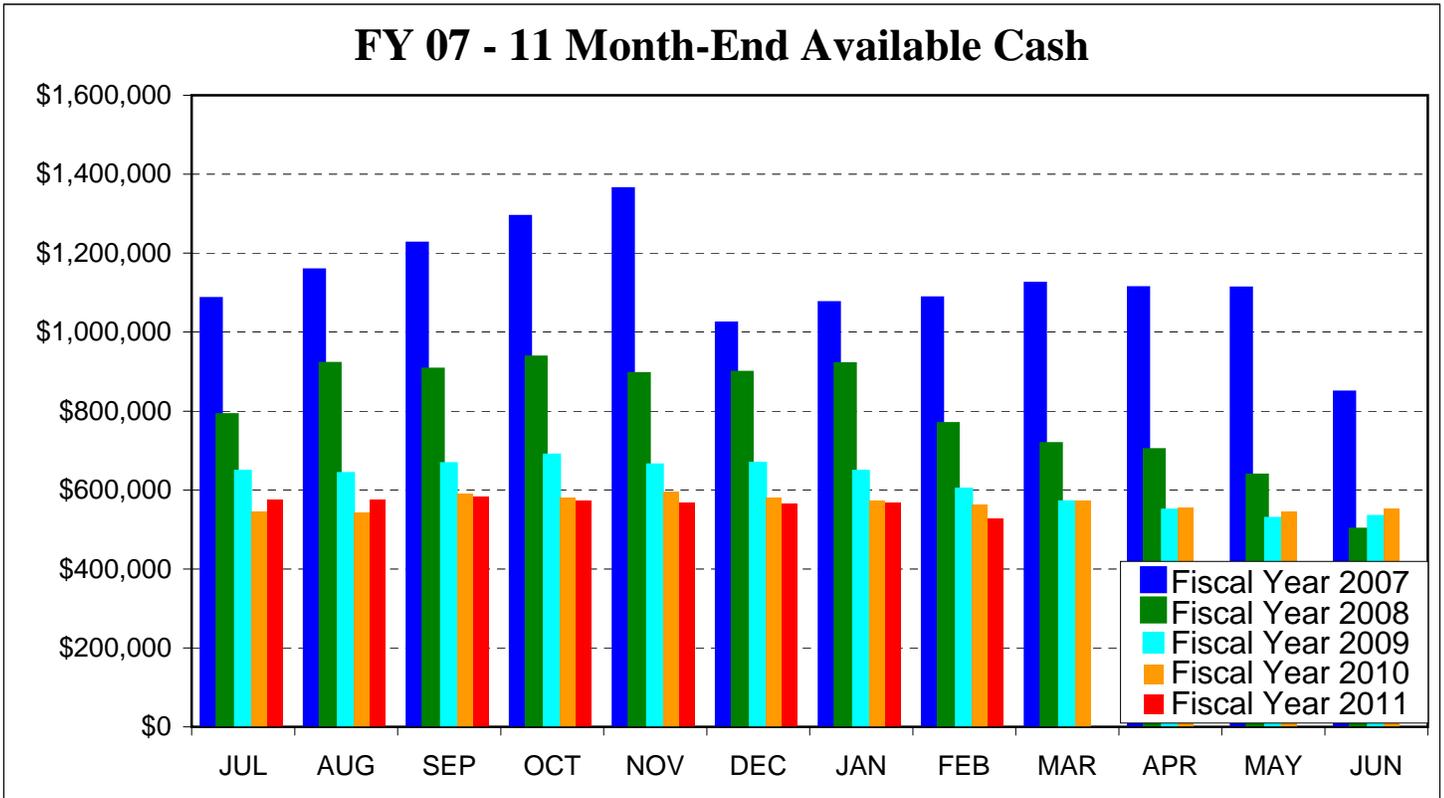
Class	Budget	Fiscal Year To Date	YTD as a % of Budget *	Remaining Budet	Projected for Remainder of Projected Year	Projected Year End Totals	Projected Total as a % of Budget
Revenues:	800,000	668,649	83.6%	131,351	200,000	868,649	108.6%
Expenditures							
Personnel:	670,000	531,529	79.3%	138,471	185,847	717,376	107.1%
Operating:	180,000	174,390	96.9%	5,610	48,000	222,390	123.6%
Capital:	15,000	12,076	80.5%	2,924	16,000	28,076	187.2%
Total Expenditures	865,000	717,995	83.0%	147,005	249,847	967,843	111.9%
Net for FY 2011	(65,000)	(49,346)			(49,847)	(99,193)	

Statement of Cash Balance

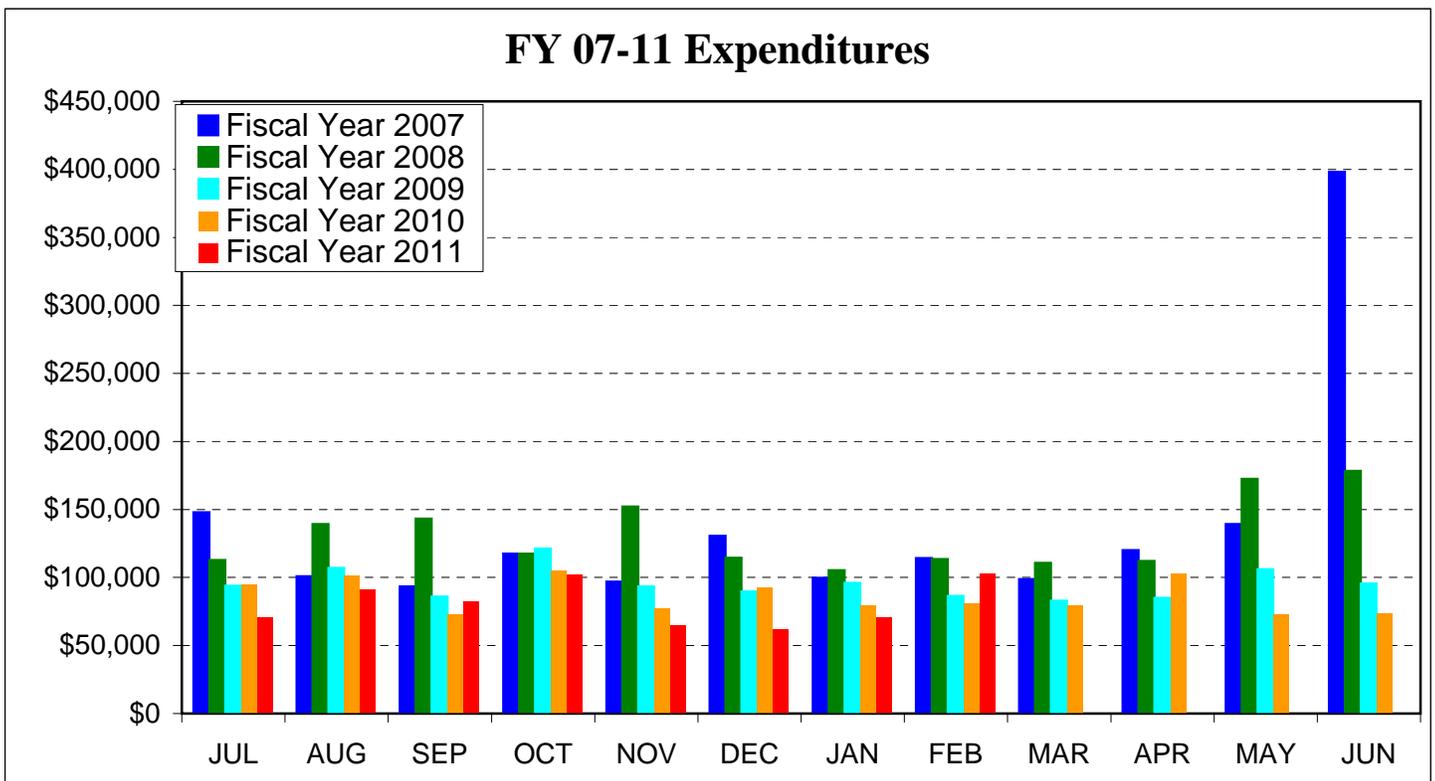
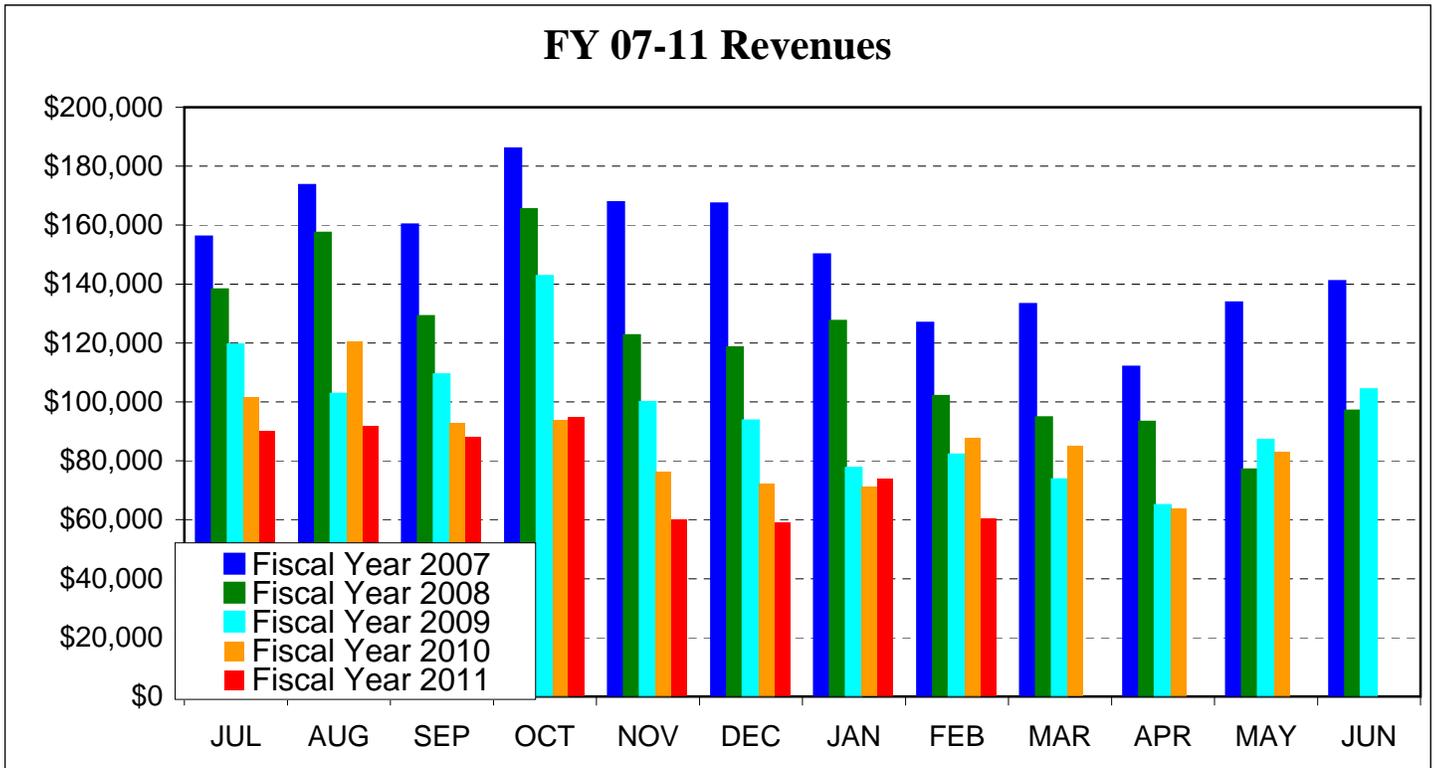
Beginning Cash Available	Revenues	Expenditures and Encumbrances	Other Changes in Cash	Available Cash	Projected Change in Cash for Remainder of Year	Projected Year End Available Cash
553,387	668,649	(717,995)	2,066	506,107	(49,847)	456,260

* Percent of Fiscal Year Completed 75.0%
 Percent of Pay Periods Completed 73.1%

IDAHO HVAC BOARD FUND



IDAHO HVAC BOARD FUND



IDAHO HEATING, VENTILATION AND AIR CONDITIONING BOARD

Agenda Item No. 16c

Administrator

OBJECTIVE: Provide an overview of the Division's current activities.

ACTION: Informational

BACKGROUND: This topic is addressed at all regularly scheduled Idaho HVAC Board meetings.

**PROCEDURAL
HISTORY:**

ATTACHMENTS: No documentation

