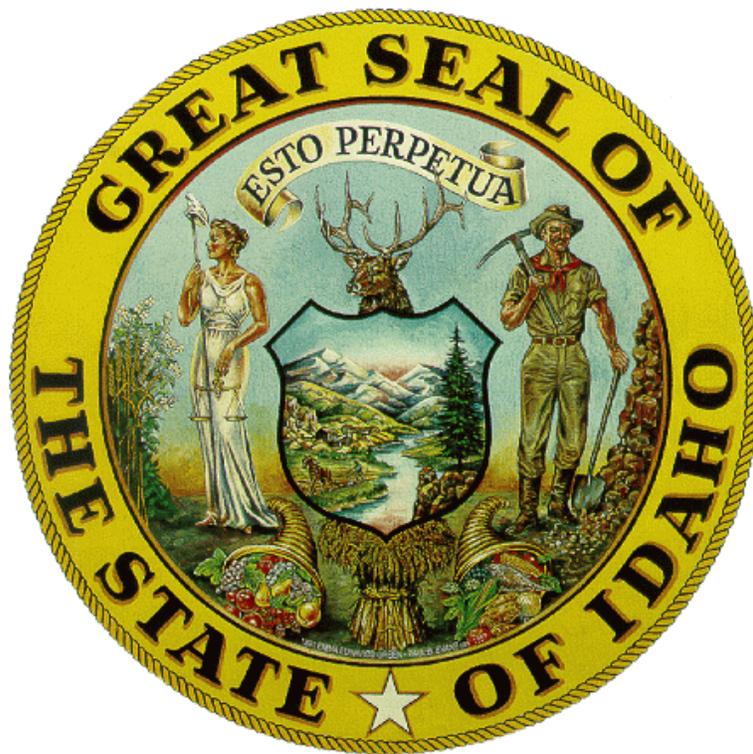


DIVISION OF BUILDING SAFETY

IDAHO PLUMBING BOARD
VIDEOCONFERENCE MEETING

OCTOBER 13, 2011



IDAHO PLUMBING BOARD

Agenda Item No. 01

Agenda

PRESENTER: Chairman Milford Terrell

OBJECTIVE: Approve the agenda for the October 13, 2011 Idaho Plumbing Board Videoconference meeting

ACTION: Consent

BACKGROUND:

**PROCEDURAL
HISTORY:**

ATTACHMENTS: October 13, 2011 Idaho Plumbing Board meeting tentative Agenda



TENTATIVE AGENDA

NOTICE OF PUBLIC MEETING

**IDAHO PLUMBING 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**

***Thursday, October 13, 2011
9:30 a.m. – 3:30 p.m. (MT)***

(Note: Meeting Commences at 8:30 a.m. PT)

9:30 a.m. CALL TO ORDER – Milford Terrell, Chairman

- o Roll Call & Introductions
- o Open Forum

CONSENT AGENDA

1. Approval of the October 13, 2011 Agenda
2. Approval of the May 12, 2011 Board Meeting Minutes
3. Approval of the July 21, 2011 Board Meeting Minutes
4. Approval of the August 17, 2011 Special Board Meeting Minutes
5. City Concerns Order #2011-001 – Milford Terrell

ACTION AGENDA

6. Plumbing Apprenticeship Curriculum – Rosie Rosco, CWI
7. SureSeal Inline Floor Drain Trap Sealer – John Nielsen
8. Aquatherm – John Nielsen
9. Color Definition of Inspection Tags -- Proposed Rule Change – John Nielsen
10. Schedule 2012 Meeting Dates – Milford Terrell

INFORMATIONAL AGENDA

11. Schooling Update – Irene Vogel, PTE

12. Instructor Qualification and Certification – Irene Vogel, PTE
13. Commercial Plumbing -- Idaho Code § 54-2602 – John Nielsen
14. Definition of Plumbing System -- Liquid and Fuel Gas Piping – John Nielsen
15. Listings and Standards – John Nielsen
16. Renting of Contractor Licenses – John Nielsen
17. CEU Training for Plumbing Contractors – Gilbert Pond

12:00 p.m. - LUNCH BREAK *(If needed)*
1:00 p.m.

18. Plumbing Program Manager Report – John Nielsen
19. Operational Report – Steve Keys
20. Administrator Report
 - a. Financial Report – C. Kelly Pearce and Kirk Weiskircher
 - b. Administrator – C. Kelly Pearce

OLD/NEW BUSINESS

EXECUTIVE SESSION (If required)

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. 09/19/11r

IDAHO PLUMBING BOARD

Agenda Item No. 02

Minutes

PRESENTER: Chairman Milford Terrell

OBJECTIVE: Approve the minutes from the May 12, 2011 Idaho Plumbing Board Videoconference meeting

ACTION: Consent

BACKGROUND:

PROCEDURAL HISTORY:

ATTACHMENTS: Draft Minutes – May 12, 2011 Idaho Plumbing Board Meeting



**IDAHO PLUMBING BOARD
VIDEOCONFERENCE MEETING**

Thursday – May 12, 2011 – 9:30 a.m. (MT)

**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**

***DRAFT MINUTES OF THE MAY 12, 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 Milford Terrell called the meeting to order at 9:34 a.m. (MT).

Board Members Present:

Milford Terrell, Chairman
Dan Long
Gordon Smythe
Matt Gardner

DBS Staff Members Present:

C. Kelly Pearce, Administrator
Steve Keys, Deputy Administrator, Operations
Janice Foster, Deputy Administrator, Administration
Patrick Grace, Deputy Attorney General
Kirk Weiskircher, Financial Manager
John Nielsen, Plumbing Program Manager
Chris Jensen, Regional Manager, Eastern Idaho
Rod Freligh, Plumbing/HVAC Supervisor, Northern Idaho
Renee Bryant, Administrative Assistant 2/Board Secretary

◆ **Open Forum**

Proposed 2009 ISPC – Two letters were read by IDABO President Charles Allen. The first letter, dated May 3, 2011, was addressed to the members of the State Plumbing Board and requested time on the agenda to discuss the following: state plumbing code issues; clarify inaccurate information recently highlighted during the 2011 legislative session; and invite the Board to join a working group to meet regularly during the summer months to come to a conclusion before draft legislation is due in August 2011.

The second letter, dated May 11, 2011, was addressed to Mr. Pearce, Mr. Terrell, and members of the Board. Mr. Allen expressed interest for all parties to work together to achieve a consensus with the proposed legislation, chastised DBS and the Board for the lack of meeting notifications and non-meaningful descriptions on the agendas, and reiterated the formation of a working group to formulate proposed legislation.

Chairman Terrell provided Mr. Allen with the 2011 Board Meeting Calendar and invited him and IDABO constituents to attend any and all Plumbing Board meetings. Mr. Allen acknowledged Administrator Pearce’s e-mail letter dated May 10, 2011, and accepted the Division’s request for IDABO leadership to designate two official representatives to attend each of the four major regularly scheduled DBS Board meetings (Electrical, Plumbing, HVAC, and Building). Richard Bigelow, IDABO board member, came forward in support of Mr. Allen’s position on the issue.

2010 Green Plumbing and Mechanical Code Supplement – Pete Crow, IAPMO, chose to speak on the subject “2010 Green Plumbing and Mechanical Code Supplement” when presented as an informational item on the agenda.

International Green Construction Code (IGCC) – Kraig Stevenson, ICC, briefly highlighted on a few aspects of the IGCC’s booklet *Water Efficiency Provisions*.

Chairman Terrell provided Mr. Stevenson with a copy of the 2011 Board Meeting Calendar and encouraged him to contact DBS staff to be placed on a future Plumbing Board meeting agenda.

Plumbing Commercial Kitchens – It was noted after plumbing inspections have been completed the health department in northern Idaho informs the plumbers they have to indirect waste the 3-compartment sink regardless of the type of job.

The Board has no control over the health department, which has its own rules and regulations. It was suggested drawings be reviewed by the health department prior to the commencement of the job.

◆ **Approval of May 12, 2011 Agenda**

IDABO representatives were given the option to address the topic “Proposed 2009 ISPC” under Open Forum or action item six “Proposed 2009 ISPC” of the agenda. The option chosen was Open Forum. Chairman Terrell asked for a motion to remove action item six (6) from the agenda.

MOTION: Matt Gardner made a motion to accept the May 12, 2011 Agenda as presented with the removal of action item six “Proposed 2009 ISPC”. Dan Long seconded. All in favor, motion carried.

◆ **Approval of February 10, 2011 Board Meeting Minutes**

MOTION: Matt Gardner made a motion to approve the February 10, 2011 Board Meeting Minutes as written. Dan Long seconded. All in favor, motion carried.

◆ **Approval of February 18, 2011 Special Board Meeting Minutes**

MOTION: Dan Long made a motion to approve the February 18, 2011 Special Board Meeting Minutes as written. Gordon Smythe seconded. All in favor, motion carried.

◆ **Approval of March 2, 2011 Special Board Meeting Minutes**

MOTION: Dan Long made a motion to approve the March 2, 2011 Special Board Meeting Minutes as written. Gordon Smythe seconded. All in favor, motion carried.

◆ **Criteria for Continuing Education Providers**

The topic “Fee for Continuing Education Providers” was addressed at the April 2011 Idaho Electrical Board meeting. No formal action, in terms of approval of fees, was taken; however, the Electrical Board agreed to place the topic on the July 19, 2011 Idaho Electrical Board Meeting Agenda as an action item.

MOTION: Dan Long made a motion to approve the proposal before the Board for DBS to promulgate a rule establishing criteria for approval of instructors and courses of instruction for plumbing contractors and journeymen continuing education requirements. Matt Gardner seconded. All in favor, motion carried.

As directed at the February 2011 Board meeting, Patrick Grace presented an alternative motion. For consistency, should the Electrical Board choose not to adopt the fee, the Plumbing Board would decline to impose fees as well.

SUBSTITUTE MOTION: Milford Terrell read the following substitute motion: “To approve the proposal before the Board for DBS to promulgate a rule establishing criteria for approval of instructors and courses of instruction for plumbing contractors and journeymen continuing education requirement with the condition that if the Electrical Board decides not to impose a fee for the approval of said providers the Plumbing Board would likewise remove the fee in the interest of the consistency amongst the trade.” Gordon Smythe seconded. All opposed, motion failed.

With the failure of the substitute motion, the Board voted and unanimously approved the first motion.

◆ **Pre-Apprenticeship Course**

Rosie Rosco, CWI, reiterated a pre-apprenticeship course will be offered in the fall of 2011. The one-semester course will allow individuals an opportunity to learn the basics of the construction trade. The pre-apprenticeship course is essentially the same as the first semester of the apprenticeship program. CWI would like the Board’s support to allow the hours of the pre-apprenticeship course to count towards the required 144 hours of required schooling for an apprentice, should the individual choose to continue in the plumbing trade.

◆ **AQUS**

AQUS is a small scale water reuse system for flushing a toilet. Dave Poe with Braley Gray and Associates, representing Sloan Valve, came before the Board to inquire what would be required to install the AQUS system in the state of Idaho.

The 2003 UPC specifically prohibits reclaimed systems in residential installations; only allowing it on commercial property. The 2009 code does not specify commercial or residential; therefore, the product meets all standards.

It was suggested, and Dan Long offered, to test the system and report back to the Board at the July meeting his findings. The city of Moscow will consider testing the unit as well. All units will be returned to Mr. Poe after an acceptable testing period.

ACTION: At the July Board meeting, Dan Long will provide a report on his findings of the AQUS system.

◆ **Aquatherm**

Jim Paschal, representing Aquatherm introduced the product as a fiberglass Polypropylene pipe used in potable water systems. For clarification, the information provided in the Board packet to the Board is not certified by UPC and does not have the shield seal. Therefore, no action can be taken by the Board until the product receives the appropriate seal. John Nielsen explained the difference between “shield” and “triangle” seals in regards to code standards and listings.

Until further notice, individuals must appeal to the Board for possible use of the product “Aquatherm” on any job.

The Board agreed to continue to study the product, with occasional updates from representatives of Aquatherm.

◆ **SureSeal Inline Floor Drain Trap Sealer**

SureSeal is a barrier type trap seal protection device. Upon the conclusion of a presentation to the Board, Don Huber with SureSeal asked the product be approved to use in conjunction with the trap primers until a decision has been made to use it in lieu of the trap primer.

The Board unanimously consented to continue the study of the product and provide an answer to Mr. Huber at the July Board meeting.

ACTION: The topic “SureSeal” to be addressed at the July Board meeting.

◆ **Schooling Update**

Irene Vogel, PTE, was unable to attend the meeting. The topic “Schooling Update” will be addressed at the July 21, 2011 Agenda.

ACTION: The topic “Schooling Update” will be placed on the July 21, 2011 Agenda as an informational item.

◆ **Appliance Specialty License (Water Softener Installers) Subcommittee Report**

Due to scheduling conflicts, Matt Gardner was unable to coordinate a meeting with Blake Jones with Culligan to discuss the possibility of an Appliance Specialty license. At the request of Chairman Terrell, the topic “Appliance Specialty License” will be pulled from future agendas until such time he receives affirmative correspondence from the water softener industry.

◆ **Exam Development Subcommittee Report**

On tab 12 “Exam Development Subcommittee Report”, an error was noted in the second sentence of the second paragraph under “Background”. The original sentence read, “The practical would consist of successfully plumbing seven (7) fixtures, to include a hot water heater.” A water heater has cold, not hot water. The word “hot” was removed from the sentence to properly read in part, “...to include a water heater.”

Gordon Smythe provided a brief summary of the Exam Development Subcommittee meeting held in April. Due to the fact the ISPC, based on the 2009 UPC, did not pass the 2011 legislature, Chairman Terrell requested the topic “Exam Development Subcommittee Report” be pulled from future agendas.

John Nielsen explained current DBS employee Caria Jensen was promoted to Program Specialist. She will assume responsibility for managing the relationship with the Division’s testing vendors, and coordinating the CEU program with the Division’s program managers. Her long-term responsibility will be managing and developing tests so the Division can administer its own testing program for licensing.

◆ **Adoption of the 2010 Green Plumbing and Mechanical Code Supplement**

The Board unanimously agreed to continue the examination of all “green” code supplements.

Pete Crow, IAPMO, provided additional documentation highlighting the development of the code and 2010 Green Plumbing and Mechanical Code Supplement. Should the Board assign the review of the supplement to a committee, Mr. Crow offered his assistance.

Kraig Stevenson, ICC, was offered an opportunity to address the Board in regards to the International Green Construction Code.

◆ **Plumbing Contractors Renting Their Licenses**

The current rules do not prohibit a licensed plumbing contractor from renting his license. Although anyone can pull a permit on the license, the licensed contractor is still responsible for actions taken under the license.

Discussion was opened to the public for comments/suggestions. The majority agreed for restrictions to the renting of a contractor license.

The Board supported John Nielsen continue to research options to restrict the use of the license; coming back to the July meeting with additional information.

ACTION: The topic “Plumbing Contractors Renting Their Licenses” will be placed on the July Board meeting agenda as an informational item.

◆ **Pre-Apprenticeship Course and Testing Upon Completion of Apprenticeship Schooling**

Chairman Terrell requested items six (6) “Pre-Apprenticeship Course” and 13 “Testing Upon Completion of Apprenticeship Schooling” be addressed simultaneously.

With the current economic conditions, many apprentices are unemployed. Gordon Smythe suggested the Board consider amending the rule to allow apprentices to take the written portion of the journeyman exam upon completion of the schooling required without the required 8,000 hours of work experience. However, to be eligible to take the practical exam, an apprentice would have to fulfill the 8,000 hour requirement.

The apprentice registration is five (5) years with no restrictions on renewal. Should an apprentice renew the registration and receive the journeyman license during that period, the Division has agreed the remaining registration fee would be applied toward the journeyman license.

The Board requested the Division create a proposed rule change to be reviewed for possible approval at the July Board meeting.

ACTION: DBS will bring to the July meeting a draft rule proposal as an action item.

The Board has already approved the Pre-Apprenticeship program, which is the first half of the first year of the Apprenticeship program.

The Board unanimously consented to continue to look at the Pre-Apprenticeship program.

ACTION: The topic “Pre-Apprenticeship Program” will be addressed at the July meeting as an informational item.

◆ **Out-of-State Journeyman or Master Plumber Registration**

Out-of-state journeymen and master plumbers have been working in Idaho as registered apprentices; however, have not been in compliance with the schooling requirements of Idaho.

A proposal was presented to the Board where a journeyman or master plumber, in any recognized jurisdiction, would be required to disclose licensure history and provide sufficient proof to qualify for a journeyman license to work in Idaho. The Board was in agreement; however, expressed a penalty clause should be included in the proposal.

At the request of the Board, the Division will incorporate a penalty clause into the proposed rule; bringing the draft proposal to the July 21st Board meeting as action item.

ACTION: As an action item for the July 21, 2011 Board meeting, the Division will include a penalty provision in the proposed rule.

◆ **2009 Uniform Solar Energy Code**

Chairman Terrell asked DBS staff to continue to study the code; bringing the topic “2009 Uniform Solar Energy Code” to the July meeting as an action item.

ACTION: The topic “2009 Uniform Solar Energy Code” will be brought back to the July 2011 Board meeting as an action item.

◆ **Plumbing Program Manager Report**

Compliance – John Nielsen and Janice Foster created a committee to explore the possibility of a statewide compliance program. Meetings were held with senior management and inspectors. For the July meeting, Mr. Nielsen will present a report to see which direction to go with compliance.

ACTION: At the July Board meeting, John Nielsen will provide a report on options for compliance in Idaho.

Commercial Jobs – I.C. §54-2602(1)(e) “Exceptions” – “Working on plumbing systems on premises owned or operated by an employer who regularly employs maintenance or construction plumbers, provided that alterations, extensions and new construction shall comply with the minimum standards and rules applicable to plumbing practices provided by this chapter.”

The way I.C. §54-2602(1)(e) “Exceptions” reads, a commercial property owner who regularly employs maintenance/construction personnel can have the employees work, in all fashions of plumbing, on the property and is not required to hire a licensed plumbing contractor.

According to Milford Terrell, the intent of the statute was for maintenance/construction personnel to maintain the equipment on site, not change out fixtures. For the July Board meeting, Mr. Terrell requested John Nielsen bring proposed changes to statute to reflect the original intent of the Board.

ACTION: As an informational item on the July Board Meeting Agenda, John Nielsen will provide proposed statute changes for the Board’s review.

◆ **Operational Report**

Due to time constraints, Chairman Terrell stated the topic “Operational Report” would not be addressed at the meeting.

◆ **Administrator Report**

Due to time constraints, Chairman Terrell stated the topic “Administrator Report” would not be addressed at the meeting.

◆ **New Business**

There was no new business to discuss.

◆ **Executive Session**

MOTION: Chairman Milford Terrell made a motion to modify the agenda item related to executive session and move to retire into executive session pursuant to Idaho Code section 67-2345(1)(b) and (1)(d) to discuss DBS personnel matters specifically related to the evaluation and possible dismissal of DBS employees, as well as potential private personal information. Dan Long seconded. Roll call: Milford Terrell-aye, Dan Long-aye, Gordon Smythe-aye, and Matt Gardner-aye.

As stated by Chairman Terrell, a motion was made by Dan Long and seconded by Gordon Smythe to conclude the Executive Session.

◆ **Old Business**

IDABO and Future Legislation – Chairman Terrell will look into the request from IDABO in regards to working with the committee on future legislation.

MOTION: Dan Long made a motion to adjourn the meeting. Gordon Smythe seconded. All in favor, motion carried. The meeting adjourned at 2:26 p.m. (MT).

MILFORD TERRELL, CHAIRMAN
IDAHO PLUMBING 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 Plumbing Board. 08/03/11rb

IDAHO PLUMBING BOARD

Agenda Item No. 03

Minutes

PRESENTER: Chairman Milford Terrell

OBJECTIVE: Approve the minutes from the July 21, 2011 Idaho Plumbing Board Videoconference meeting

ACTION: Consent

BACKGROUND:

PROCEDURAL HISTORY:

ATTACHMENTS: Draft Minutes - July 21, 2011 Idaho Plumbing Board Meeting



IDAHO PLUMBING BOARD VIDEOCONFERENCE MEETING

Thursday – July 21, 2011 – 9:30 a.m. (MT)

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

*DRAFT MINUTES OF THE JULY 21, 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 Milford Terrell called the meeting to order at 9:38 a.m. (MT).

Board Members Present:

Milford Terrell, Chairman, Meridian
Dan Long, Teleconference
Gilbert Pond, Meridian
Matt Gardner, Pocatello
Gordon Smythe, Coeur d'Alene

DBS Staff Members Present:

C. Kelly Pearce, Administrator
Steve Keys, Deputy Administrator, Operations
Patrick Grace, Deputy Attorney General
Kirk Weiskircher, Financial Manager
John Nielsen, Plumbing Program Manager
Rod Freligh, Regional Manager, Region 1
Chris Jensen, Regional Manager, Region 3
Renee Bryant, Administrative Assistant 2/Board Secretary

Ron Whitney was introduced as the newly appointed Regional Manager, Region 2, for the Division of Building Safety.

As the newest member of the Board, Gilbert Pond was welcomed to the Board as the Journeyman Representative.

◆ **Open Forum**

Plumbing without a License – Kenny Calkins, Cloverdale Plumbing and President of Treasure Valley Master Plumbers Association, thanked DBS for their involvement in the resolution of a “handyman” issue where a non-licensed individual was advertising/performing plumbing services.

◆ **Approval of July 21, 2011 Agenda**

MOTION: Gilbert Pond made a motion to accept the July 21, 2011 Agenda as presented. Dan Long seconded. All in favor, motion carried.

◆ **Approval of May 12, 2011 Board Meeting Minutes**

The May 12th minutes were distributed to the Board the morning of the meeting. To allow time to review the minutes, Milford Terrell moved the topic “Approval of May 12, 2011 Board Meeting Minutes” to the end of the meeting under “Old/New Business”.

◆ **Testing Upon Completion of Apprenticeship Schooling**

A proposal was brought forth to allow an apprentice to take the written portion of the journeyman exam upon completion of the four years of schooling without the required 8,000 hours. However,

to apply for and obtain a journeyman license, an apprentice must complete the necessary 8,000 hours and pass the practical exam.

MOTION: Gordon Smythe made a motion to approve the proposal before the Board for DBS to promulgate a rule provided for the abilities of an apprentice to test for journeyman license upon completion of four years of schooling. Gilbert Pond seconded. All in favor, motion carried.

◆ **Out-of-State Journeyman or Master Plumber Registration**

The proposal before the Board specifically states a licensed journeyman or master plumber in any recognized jurisdiction shall not be issued a plumbing apprentice registration.

MOTION: Gilbert Pond made a motion to approve the proposal before the Board for DBS to promulgate a rule to provide for limitation on previously licensed journeyman and master plumber's registering as an apprentice. Matt Gardner seconded. All in favor, motion carried.

◆ **Failure to Disclose**

The proposed rule would create a civil penalty to any applicant for a plumbing registration or certificate of competency who, upon request, fails to disclose any required licensure information.

MOTION: Gordon Smythe made a motion to approve the proposal before the Board for DBS to promulgate a rule provided for the civil penalties for an applicant failure to disclose information on their application for licensure and registration. Dan Long seconded. All in favor, motion carried.

◆ **Reclaim Water Systems and AQUAS**

The 2003 Uniform Plumbing Code (UPC) allows reclaim water systems in non-residential applications only. The 2009 UPC was reworded to allow reclaim water systems in both residential and non-residential units. The proposal before the Board would change the language in the 2003 UPC to reflect the verbiage in the 2009 UPC.

Milford Terrell requested, and the board members unanimously agreed, to intermingle the topic "AQUAS" with the "Reclaim Water Systems" topic.

At the May 2011 meeting, the city of Moscow offered to test the AQUAS system. Justin Goodwin, city of Moscow inspector, installed and inspected the system. Mr. Goodwin's biggest concern was safety and the lack of proper installation instructions on chemical portions.

IAPMO is in the process of developing a full consensus standard for reclaim water systems. It was suggested the Board wait until the standard is complete and then require the end products, permitted of this type, to meet the standard.

With unanimous consent from the Board, the topic "Reclaim Water Systems" was tabled. Milford Terrell stated John Nielsen would research the safety factor of the products; providing additional information to the Board at a future meeting.

ACTION: The topic "Reclaim Water Systems" will be addressed at a future Board.

◆ **International Green Construction Code's (IGCC) Water Efficiency Provisions**

Shawn Martin, International Code Council, provided an overview, via PowerPoint, of the IGCC.

The Board will take into consideration the IGCC. Any board member who would like the topic “International Green Construction Code’s (IGCC) *Water Efficiency Provisions*” to be further discussed needs to contact DBS to have it placed on a future agenda.

◆ **Schooling Update**

With school out for the summer, Irene Vogel with Professional-Technical Education (PTE) had no registration numbers to report.

The College of Western Idaho (CWI) was given the Apprenticeship Curriculum Review project to manage. The review of the plumbing curriculum is complete. Ms. Vogel requested the topic “Plumbing Apprenticeship Curriculum Review” be placed as an action item on the October 13th Plumbing Board Meeting Agenda for the Board’s approval.

ACTION: The topic “Plumbing Apprenticeship Curriculum Review” will be placed on the October Agenda as an action item.

Milford Terrell received a letter from CWI in regards to instructor certification through PTE. Ms. Vogel was asked to respond, in writing, to DBS stating the qualification and certification process to become an instructor.

◆ **Pre-Apprenticeship Program**

Ed Howland, CWI, reiterated the concept of the Pre-Apprentice program. CWI is the only educational facility to offer the program at this time.

◆ **Plumbing Apprenticeship Curriculum Review**

The Plumbing Apprenticeship Curriculum has been updated. The Board was asked to review the curriculum and provide recommendations to Irene Vogel, PTE, and Rosie Rosco, CWI, prior to the October Board meeting.

ACTION: Prior to the October Board meeting, the board members will review and provide suggestions on the plumbing apprenticeship curriculum to Irene Vogel, PTE, and Rosie Rosco, CWI.

ACTION: The topic “Plumbing Apprenticeship Curriculum” will be placed on the October 2011 Agenda as an action item.

◆ **Commercial Plumbing -- Idaho Code § 54-2602**

John Nielsen explained the intent of Idaho Code § 54-2602. As requested at the May meeting, a possible revision to the code was included in the Board packet. After a brief discussion, Milford Terrell was interested in the definition of “Alterations”. The Division was asked to provide a proposed statute change to clarify the type of work allowed on plumbing systems by regularly employed maintenance or construction workers on premises owned and/or operated by the property owner.

ACTION: The topic “Commercial Plumbing -- Idaho Code § 54-2602” will be placed as an informational item on the October 2011 Agenda.

◆ **Plumbing Program Manager Report**

Definition of Plumbing System -- Liquid and Fuel Gas Piping – Currently, liquid and fuel gas piping is not included in the definition of plumbing system in statute. With the consensus of the Board, John Nielsen will bring a proposed statute change to the October 2011 Board meeting.

ACTION: The topic “Definition of Plumbing System -- Liquid and Fuel Gas Piping” will be placed on the October 2011 Agenda as an informational item.

Color Definition of Inspection Tags -- Proposed Rule Change – All required inspection tags are non-color specific, except inspection tags for unacceptable plumbing, which are red. At the suggestion of John Nielsen, and approval of the Board, a proposed rule change will be brought to the October 2011 Board meeting as an informational item.

ACTION: A proposed rule change on the topic “Color Definition of Inspection Tags” will be placed on the October 2011 Agenda as an informational item.

Listings and Standards – It was the desire of the Board for John Nielsen to bring to the October 2011 Board meeting a comprehensive report in regards to third-party listings, product approval, stamps, etc.

ACTION: The topic “Listing and Standards” will be added to the October 13, 2011 Agenda as an informational item.

Renting of Contractor Licenses – John Nielsen continues to work on this issue. The topic “Renting of Contractor Licenses” was asked to be brought to the October meeting as an informational item.

ACTION: The topic “Renting of Contractor Licenses” will be added to the October Agenda as an informational item.

SureSeal Inline Floor Drain Trap Sealer – At the suggestion of John Nielsen, and request of Milford Terrell, additional information on the *SureSeal* product will be brought back to the October meeting. The Board will make a final decision whether to permit the use of the product in the state of Idaho at that time.

ACTION: The topic “SureSeal Inline Floor Drain Trap Sealer” will be added to the October 13, 2011 Agenda as an action item.

◆ **Operational Report**

Operational Structure – DBS is moving from a centralized to regional structure. With the continuation of staff reduction, the Division will be required to restrict inspections to certain areas on given days, especially the outlying areas. Management will work with the regional managers to define those days.

Financial – The Plumbing program continues to struggle with a decline, 25 to 30%, in revenues.

◆ **Administrator Report**

Public Works Projects -- Permits and Building Inspections – Statutorily, DBS is responsible for the issuance of permits and building inspections on state public works projects in Idaho.

The first of July, DBS sent letters on the statutory requirements to state agencies involved in public works defined buildings and state agencies that independently generate their own buildings outside the public works activity. The changes will apply to projects beginning after July 1, 2011.

Project DOX – It is under consideration with the Division of Public Works to use Project DOX for their plan reviews. BSU has been trained on DOX and has begun to use the system on all their plans.

Chairmen Meeting – In June, a meeting was held with the chairmen of each board housed under the DBS to explain the Agency's statewide layoff process and vision.

Statewide Layoff Policy – The Division's layoff policy has changed from geographical regions to statewide. The new policy offers the Division the ability to identify the areas of need for inspectors to fulfill the inspection responsibilities across the state of Idaho.

Personnel – When Administrator Pearce was appointed to DBS in 2007, there were 152 authorized full-time positions. Upon the completion of the layoff program, the Division will have fewer than 100 employees.

Building Rental – The Idaho Department of Labor (IDOL) currently leases 43% of the Meridian office from DBS. Over the next ten years the Division anticipates a savings of \$1.9 million in rent.

Assigned Work Stations – In the past, inspectors have worked from their residences. DBS has contracted with IDOL to rent work stations from 12 of their facilities throughout Idaho. The Division's three locations will provide accommodations to inspectors as well. The majority of inspectors will commute, by personal transportation, to their assigned facilities. Work hours will be 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding holidays. During non-business hours, state vehicles will be parked at the designated facilities.

Inspections by Zip Code – With the use of electronic systems, staff can now search inspections by zip code; calculating the areas of need for inspectors.

Chinese Government and U.S. Projects – The Chinese government has stock in the following Idaho-based projects: Hoku, solar cell plant in Pocatello; Southeast Idaho Energy Corp., fertilizer plant outside American Falls; electric bus manufacturer plant, Treasure Valley area; and industrial park, south of Boise airport.

To report back to the Governor, Kelly Pearce asked the board members for their thoughts to potential Chinese investments in the United States. The majority of members had no negative opinion on the issue.

◆ **Old/New Business**

Approval of May 12, 2011 Board Meeting Minutes – Hearing no motion to approve the minutes with any additions or deletions, Milford Terrell requested the May 12th minutes be placed on the October 13th Plumbing Board Meeting Agenda as a consent item.

ACTION: The May 12th Plumbing Board Meeting Minutes will be addressed at the October 13th Board meeting under the consent agenda.

Continuing Education Training for Plumbing Contractors – Gilbert Pond noted IDAPA 07.02.05.016.02c, “Continuing Education”, only specifies the number of hours of continuing education required for contractors.

At the request of Milford Terrell, John Nielsen and Mr. Pond will create a proposed rule change; breaking down the types of continuing education; i.e., plumbing code update, industrial, etc.

ACTION: The topic “Continuing Education Training for Plumbing Contractors” will be placed on the October Agenda as an informational item.

◆ **Executive Session**

An Executive Session was not required.

Chairman Terrell adjourned the meeting at 1:50 p.m. (MT)

MILFORD TERRELL, CHAIRMAN
IDAHO PLUMBING 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 Plumbing Board. 08/30/11rb

IDAHO PLUMBING BOARD

Agenda Item No. 04

Minutes

PRESENTER: Chairman Milford Terrell

OBJECTIVE: Approve the minutes from the August 17, 2011 Special Idaho Plumbing Board Videoconference meeting

ACTION: Consent

BACKGROUND:

PROCEDURAL HISTORY:

ATTACHMENTS: Draft Minutes – August 17, 2011 Special Idaho Plumbing Board Meeting



**IDAHO PLUMBING BOARD
“SPECIAL” VIDEOCONFERENCE MEETING**

Wednesday – August 17, 2011 – 9:00 a.m. (MT)

**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**

***DRAFT MINUTES OF THE AUGUST 17, 2011 SPECIAL 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 Milford Terrell called the meeting to order at 9:04 a.m. (MT)

Board Members Present:

Milford Terrell, Chairman, Meridian
Dan Long, Meridian
Gordon Smythe, Meridian
Gilbert Pond, Meridian
Matt Gardner, Pocatello

DBS Staff Members Present:

C. Kelly Pearce, Administrator
Steve Keys, Deputy Administrator, Operations
Patrick Grace, Deputy Attorney General
Kirk Weiskircher, Financial Specialist, Principal
John Nielsen, Plumbing Program Manager
Rod Freligh, Regional Manager, Region 1
Chris Jensen, Regional Manager, Region 3
Renee Bryant, Administrative Assistant 2/Board Secretary

An opening statement was made by Chairman Milford Terrell. The Plumbing Board’s goal for today’s special meeting is to review and consider the adoption of the 2009 UPC as constituted in the Idaho State Plumbing Code. Chairman Terrell also provided an overview of the proposal and rules of engagement.

Leon Duce with Association of Idaho Cities reiterated the procedure, as contained within the proposal, that cities must adhere to in order to create ordinances.

Correspondence from Lane Triplett, in support of the proposed ISPC, was entered into the record.

The proposed 2009 ISPC is available online and can be accessed through the Division’s website at <http://dbs.idaho.gov>. To ensure online and hard copies of the ISPC coincide, John Nielsen will contact IAPMO with any changes.

ACTION: John Nielsen will contact IAPMO and make sure the online and hard copy of the ISPC mirror each other.

As questioned by IDABO President Charlie Allen, upon approval of the Board and 2012 Legislature, the 2009 code will become effective in January 2013. The code adoption process, contained in the proposal, would have to be initiated in order for the 2012 code to be used. However, the Board will have the ability to adopt and incorporate future codes into the ISPC.

Chairman Terrell asked three separate times if anyone wanted to testify for or against the proposed bill. Upon receiving no response, the following motion was made:

MOTION: Dan Long made a motion to approve the proposal before the Board to amend Idaho Code § 54-2601 to provide for the adoption of a plumbing code under the procedures as described therein and to be named as described therein and for IAPMO to publish the code in a manner as has been described at this meeting. Gilbert Pond seconded. Upon no further discussion, the Board was polled. Dan Long-Aye, Gordon Smythe-Aye, Gilbert Pond-Aye, Matt Gardner-Aye, and Milford Terrell-Aye. All in favor, motion carried.

Dedicated Time at Meetings for Cities – Individuals representing cities would like dedicated time at each Plumbing Board meeting for city issues and/or suggestions. Deputy Attorney General Patrick Grace drafted an Order and recommended the Board consider moving forward with the idea at the October 2011 meeting. Chairman Terrell so ordered.

ACTION: At the October Board meeting, the Board will consider the request and review the Order.

Chairman Terrell adjourned the meeting at 9:32 a.m. (MT)

MILFORD TERRELL, CHAIRMAN
IDAHO PLUMBING 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 Plumbing Board. 09/01/11r

IDAHO PLUMBING BOARD

Agenda Item No. 05

City Concerns Order #2011-001

PRESENTER: Milford Terrell

OBJECTIVE: To provide interested parties time at each regularly scheduled Plumbing Board meeting to address matters of concern to the cities, city officials or other individuals representing city or local interests.

ACTION: Consent

BACKGROUND: Individuals representing cities would like dedicated time at each Plumbing Board meeting for city issues and/or suggestions. Deputy Attorney General Patrick Grace drafted an Order and recommended the Board consider moving forward with the idea at the October 2011 meeting.

**PROCEDURAL
HISTORY:**

ATTACHMENTS: Order No.: PLB 2011-001



**STATE OF IDAHO
DIVISION OF BUILDING SAFETY
PLUMBING BOARD**

Order Dedicating Plumbing Board Time to City & Local Concerns	ORDER NO.: PLB 2011-001
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Order entered: October ____, 2011

WHEREAS during the process of establishing and maintaining a subcommittee of the Board to study and adopt the Idaho State Plumbing Code over the course of the last several years, it has been made more apparent to the Board that cities which adopt a plumbing enforcement program are likely to have an interest in the content of the plumbing code and related matters thereto; and

WHEREAS during the process of adopting the Idaho State Plumbing Code, and in particular during the 2011 legislative session, city plumbing and building officials, other city officials and administrators, and/or other interested parties and organizations representing local concerns expressed concern about their ability to adequately address the plumbing board about matters of interest to them and their constituents; and

WHEREAS during the process of considering and negotiating a new plumbing code subsequent to the 2011 legislative session, and while discussing matters related to the adoption of codes and the administration of a plumbing enforcement program with such city officials and representatives, the Board has determined that it would be in the best interests of all those involved to afford such interested parties time at each regular plumbing board meeting to address matters of concern to the cities, and to dedicate such time exclusively thereto;

NOW, THEREFORE, IN CONSIDERATION OF THE AFORMENTIONED, it is hereby ordered that at each regular meeting of the plumbing board sufficient time will be made available and dedicated exclusively to cities, city officials, local plumbing and/or building officials, organizations comprised of such officials, or other individuals representing city or local interests to address any matter, issue, or concern as such may further relate to any matters before or within the purview of the Board.

Adequate time will be made available during the "Open Forum" portion of each regular board meeting at which time any interested individual from the above-referenced list of city representatives may address their concerns to the Board. While no formal action of a matter brought to the Board in the Open Forum portion of a meeting may be

taken, any issue may be placed on a future agenda as an action or informational item upon request.

The establishment of this Order does not necessarily assure that the Board will act upon, further pursue, or favorably or unfavorably resolve any matter brought forth to it by any individual during such dedicated time beyond that courtesy which is afforded during a meeting; but rather only that adequate time will be afforded city representatives to address their concerns to the Board, and that the Board will reasonably and in good faith consider those matters within its authority and determine whether it deems it appropriate to take further action.

This shall be a standing Order of the Board until such time as a new Chairman is elected to the Board or until such time as formal action by the Board is taken to revoke this order, whichever may occur earlier.

Dated at Meridian, Idaho, this ____ day of October, 2011.

STATE OF IDAHO, DIVISION OF BUILDING
SAFETY, PLUMBING BOARD

Milford Terrell, Plumbing Board Chairman

IDAHO PLUMBING BOARD

Agenda Item No. 06

Plumbing Apprenticeship Curriculum

PRESENTER: Rosie Rosco, CWI

OBJECTIVE: Create a standard curriculum for Electrical, HVAC, and Plumbing Licensure Apprenticeship programs in the state of Idaho

ACTION: Vote to approve, disapprove, or recommend changes to the revised plumbing apprenticeship curriculum.

BACKGROUND: In 2010, Irene Vogel, PTE, offered to assemble a committee to review the current curriculum of the Electrical, HVAC and Plumbing apprenticeship programs for changes/updates. A list of prospective individuals from each trade was generated by the Division. In January 2011, Administrator Pearce requested the chairmen of the Electrical, HVAC, and Plumbing Boards review and endorse the list prior to it being sent to Ms. Vogel.

In May of 2011, PTE turned the project over to CWI to manage. The Plumbing Apprenticeship Curriculum has been updated.

At the July meeting, the Board was asked to review the curriculum and provide recommendations to Irene Vogel, PTE, and Rosie Rosco, CWI, prior to the October Board meeting.

PROCEDURAL HISTORY:

ATTACHMENTS: Plumbing Apprenticeship Curriculum – Years 1-4



Plumbing Apprenticeship Curriculum Review
Final Report

**Submitted by the Idaho State Division of Professional Technical Education
October, 2011**

The Idaho State Plumbing Board and the Idaho State Division of Building Safety requested that the Idaho State Division of Professional Technical Education complete Years 3 & 4 of the curriculum. IDPTE requested that the College of Western Idaho lead the review process. Ed Howland, CWI Plumbing Instructor, created the new documents and solicited input from the committee listed below.

Curriculum Review Committee

Howard Lowe, LCSC Instructor - approve
Jason Neidigh, CWI advisory committee member - approve
Mark Murray, CWI advisory committee member - approve
Ed Howland, CWI Instructor - approve
Terry Deems, NIC Instructor - approve
John Nielson, DBS - approve
Bruce Patterson, EITC Instructor – approve
Scott Horton, Union - approve
Matt Gardner, State Board Member
Hugh Gaarsland, ISU Instructor – but approved by school

Other School Representatives who were consulted as well:

EITC, Ken Erickson, approve
NIC, Marie Price, approve
LCSC, Phillip Liggins, approve
ISU, JoAnn Wren & Joe Fleishman, approve
CWI, Rosie Rosco, approve
CSI, John Miller

Final Determination:

Respectively submitted are 4 documents, 1 for each Year for all 4 years of the program. These documents now include content & objectives. The order is not mandatory, but the six PTE schools have agreed to follow it in this order. The textbooks listed are suggested, not mandatory.

Plumbing Apprenticeship Year 1

Revised June 2011

College of Western Idaho

in cooperation with

Idaho State Division of Professional Technical Education

Total Suggested Hours - 168

Each of the following subjects may take more or less time than is shown, but a minimum of 144 hours is required.

Suggested Materials:

- 30/60/90 degree angle
- Calculator (Home Project Calc or one that will add feet & inches)
- Architect Ruler
- Metal Tape Measurer -any size

Optional: T – Square (CWI provides)

Suggested Textbooks:

1. Uniform Plumbing Code 2003 Illustrated Training Manual, ISBN 1081-3802.
Web site: <http://www.iapmo.org>; Email address: iapmo@iapmo.org
2. Residential Construction Academy Plumbing Book, ISBN -1-4018-4891-5;
Web site: www.delmarlearning.com
3. Mathematics for Plumbers & Pipe Fitters, Delmar, ISBN -1-4283-0461-4
4. Current Copy of Idaho Code & Administrative Rules Pamphlet. Students may print it at www.Dbs.idaho.gov or call the Idaho Division of Building Safety for a copy.

Instructions:

This outline is organized by subjects. Each subject should be broken down into lessons. It may be more effective if the instructor combines a portion of each subject area together into a lesson. For example, you might break a three hour lesson into three one-hour sections, one hour on Safety, one hour on Math, and one hour on Codes. The instructor should concentrate on the student achieving the basic objectives stated. Suggested methods of instruction are lectures, worksheets, water and drainage drawings, power point presentations, and lab activities. At the end of each lesson the student should be quizzed and/or graded on his knowledge.

Introduction to the Plumbing Profession - 6 hours

- History of the Plumbing Profession
- Idaho State Plumbing Structure
- Basic Principles of Plumbing

Objectives:

- Describe the history of the plumbing profession
- Identify the state of Idaho's organizational structure
- Identify the basic principles on which the plumbing code is based

Plumbing Safety – 18 hours

- Basic Safety
- OSHA
- Lifting
- Ladder
- Fire
- Personal Protective Equipment

- Trench
- Lock out /tag out
- Confined Space

Objectives:

- Understand common unsafe acts and conditions that cause accidents and how to handle these situations to make them safer
- Identify job site hazards – work specific to plumbers
- Learn how to maintain your workplace safely
- Understand OSHA's involvement in the plumbing profession
- Understand how the cost of accidents and illnesses effect everyone on a job site
- Identify how to properly lift heavy objects to avoid injury
- Identify the proper procedures to safely work on and around ladders
- Identify the different types of fires and the proper extinguisher to use for each type
- Identify the types of personal protective equipment needed in the plumbing profession and when each type is required
- Understand how to work safely in and around a trench
- Understand the lock out/ tag out procedure
- Understand how to properly work in and around a confined space

Introduction into Hand Tools used in the Plumbing Profession - 6 hours

- Levels
- Tape Measure
- Screw Drivers
- Wrenches
- Plastic Pipe Cutter
- Saws
- Pliers
- Torch regulator assembly

Objectives:

- Identify the types of hand tools used in the plumbing profession
- Learn how to properly use and care for basic hand tools
- Visually inspect hand tools to determine if they are safe to use
- Identify the types of personal protective equipment required to be used with hand tools

Introduction into Power Tools used in the Plumbing Profession – 6 hours

- Power Drills
- Drill Bits
- Power Saws
- Air Compressor
- Pneumatic Tools
- Jack Hammers

Objectives:

- Identify the types of power tools used in the plumbing profession
- Learn how to properly use and care for basic power tools
- Identify which drill or saw is used relevant to the work location
- Identify which drill bit or saw blade is used relevant to a system installation
- Visually inspect power tools to determine if they are safe to use
- Identify the types of personal protective equipment required to be used with power tools

Identification of All Plumbing Fittings and Types of Pipe - 6 hours

Objectives:

- Identify and describe the various fittings used in the plumbing profession
- Understand that certain fitting materials and designs may only be used for specific systems
- Describe the relationship of fitting design selections and plumbing codes
- Identify and describe common types of pipes used in the plumbing profession
- Understand that certain types of pipes may only be used for specific systems
- Describe the relationship of pipe design selections and plumbing codes

Mathematics – 30 hours

- Review of Basic Math Fundamentals
- Area
- Volume
- Weight/Gallons of liquids

Objectives:

- Define the kinds of measurements used
- Demonstrate how to use a calculator to solve plumbing math
- Define the basic concepts to solve story problems.
- Demonstrate the use of a standard ruler and tape measure
- Recognize some of the basic shapes used in the plumbing industry and demonstrate basic geometry to measure them
- Solve problems for area and volume using appropriate formulas.
- Solve problems relating to area, volume, weights and gallons

Introduction to the Uniform Plumbing Code – 39 hours

- General Regulations
- Water System
- Drain, Waste and Vent System

Objectives:

- Apply general regulations related to water systems and drain, waste and vent systems
- Perform water pipe sizing exercises
- Describe the code requirements for the installation of water supply and distribution systems (materials, joints, connections, sizing, etc)
- Describe the code requirements for the installation of drain and waste systems (materials, joints, connections, sizing, etc)
- Perform drain and waste pipe sizing exercises

Isometric Drawings – 15 hours

- Plumbing Symbols and Abbreviations
- Three dimensional drawing

Objectives:

- Identify the various plumbing symbols and abbreviations used on a blueprint drawing

Lab – 42 hours - For those schools with a lab, these hours may be completed entirely in a lab setting. For those who do not, the instructor should make every attempt to use a company's space & equipment or the instructors may explain through lecture and demonstration.

- Plumbing Repairs and Troubleshooting
- Plumbing lay out for single bathroom group

Objectives:

- Identify and repair various plumbing fixtures needed in a bathroom group
- Given a plan view of a bathroom group, demonstrate the following:
 - Create an isometric drawing
 - Lay out the bathroom group in the lab
 - Plumb the bathroom group using fittings and piping to minimum standards of the UPC

Plumbing Apprenticeship Year 2

Revised June 2011

College of Western Idaho

in cooperation with

Idaho State Division of Professional Technical Education

Total Suggested Hours - 168

Each of the following subjects may take more or less time than is shown, but a minimum of 144 hours is required.

Suggested Materials:

- 30/60/90 degree angle
- Calculator (Home Project Calc or one that will add feet & inches)
- Architect Ruler
- Metal Tape Measurer -any size

Optional: T – Square (CWI provides)

Suggested Textbooks:

1. ***Uniform Plumbing Code 2003 Illustrated Training Manual**, ISBN 1081-3802; Web site: <http://www.iapmo.org>; Email address: iapmo@iapmo.org
2. **Uniform Plumbing Code 2003 Loose Leaf**, ISBN 0733-2335; Web site: <http://www.iapmo.org>; Email address: iapmo@iapmo.org
3. ***Residential Construction Academy Plumbing Book**, Published by Thompson Delmar Learning, ISBN - 1-4018-4891-5, Web site: www.delmarlearning.com
4. **Mathematics for Plumbers and Pipe Fitters** (6th Edition) ISBN -1-4283-0461-4 or the new 7th Edition (either will work)
5. **Current Copy of the Idaho Code & Administrative Rules Pamphlet**. Students may print it at this site or call the Division of Building Safety for a copy. Website: www.Dbs.idaho.gov

Interpretation and Application of the Uniform Plumbing Code and Idaho Statutes Title 54 - Chapter 26 – Plumbing and Plumbers

74 Hours

- Administration and Idaho Title 54
- General Regulations
- Plumbing Fixtures and Fixture Fittings
- Water Supply and Distribution
- Sanitary Drainage
- Building Sewers
- Indirect Wastes
- Vents
- Traps

Objectives:

- Identify the Uniform Plumbing Code and Idaho Law administrative and enforcements rules
- Explain when the general regulations apply to various parts of the plumbing system (water, drainage, venting, etc.)
- Describe how plumbing fixtures are roughed-in and installed
- Perform water pipe sizing exercises

- Describe the code requirements for the installation of water supply and distribution systems (materials, joints, connections, sizing, etc)
- Describe the code requirements for the installation of drain and waste systems (materials, joints, connections, sizing, etc)
- Perform drain and waste pipe sizing exercises
- Describe the code requirements for the installation of public and private building sewers
- Identify and install an indirect waste system
- Describe the code requirements for the installation of the vent systems (materials, joints, connections, sizing, etc)
- Perform vent pipe sizing exercises
- Describe where traps are required in the plumbing system

Understanding Blueprint Drawings – 24 hours

- Plumbing Symbols and Abbreviations
- Drain, Waste and Vent System Drawings
- Water Distribution System Drawings
- Drain, Waste and Vent System Material List
- Water Distribution System Material List

Objectives:

- Identify the various plumbing symbols and abbreviations used on a blueprint drawing
- Given various residential blueprint drawings. The student will complete to minimum UPC standards the following:
 - Identify various parts of the plumbing system
 - Isometrically draw the drain, waste and vent system
 - Isometrically draw the water distribution system
 - Make a material list for the drain, waste and vent system
 - Make a material list for the water distribution system

Safety – 12 hours

- Recognizing safe and unsafe working conditions in the work place environment

Objectives:

- Given various job site situations, explain proper safety procedures

Math Applications – 18 hours

- Review Area and Volume
- Elevation and Grade
- Pressure
- Standard Weight Pipe
- Allowances for Threaded, Copper and Plastic Fittings
- Equal Spacing
- Various Angles in Plumbing

Objectives:

- Calculate area for various geometric shapes
- Calculate water volumes, weights, and gallons for various geometric shapes
- Define Elevation and Benchmark
- Calculate Elevations
- Calculate pressure from height of water

- Recognize different pipe weights
- Calculate end-to-end and center-to-center measurements for threaded, copper and plastic fittings
- Compare the bend or fitting angle to a circle

Lab – 40 hours - For those schools with a lab, these hours may be completed entirely in a lab setting. For those who do not, the instructor should make every attempt to use a company's space & equipment or the instructors may explain through lecture and demonstration.

- Plumbing Fixtures
- Lav, Water Closet and Urinal Carriers
- Various plumbing systems

Objectives:

- Investigate the various parts of plumbing fixtures by disassembling and assembling
- Assemble and set fixtures on carriers
- Given a drawing, assemble various types of plumbing systems using ABS and PVC pipe and fittings (example: wet vents, island fixture vents, DWV systems, etc)

Plumbing Apprenticeship Year 3

Revised June 2011

College of Western Idaho

in cooperation with

Idaho State Division of Professional Technical Education

Total Suggested Hours - 168

Each of the following subjects may take more or less time than is shown, but a minimum of 144 hours is required.

Suggested Materials:

- 30/60/90 degree angle
- Calculator (Home Project Calc or one that will add feet & inches)
- Architect Ruler
- Metal Tape Measurer -any size

Optional: T – Square

Suggested Textbooks:

1. ***Uniform Plumbing Code 2003 Illustrated Training Manual**, ISBN 1081-3802; Web site: <http://www.iapmo.org>; Email address: iapmo@iapmo.org
2. **Uniform Plumbing Code 2003 Loose Leaf**, ISBN 0733-2335; Web site: <http://www.iapmo.org>; Email address: iapmo@iapmo.org
3. ***Mathematics for Plumbers and Pipe Fitters** (6th Edition) ISBN 1-4283-0461-4 or the new 7th Edition (either will work)
4. Current Copy of the Idaho Code & Administrative Rules Pamphlet. Students can print it from www.Dbs.idaho.gov or call the Idaho Division of Building Safety for a copy.

Instructions:

This outline is organized by subjects. Each subject should be broken down into lessons. It may be more effective if the instructor combines a portion of each subject area together into a lesson. For example, you might break a three hour lesson into three one-hour sections, one hour on Safety, one hour on Math, and one hour on Codes. The instructor should concentrate on the student achieving the basic objectives stated. Suggested methods of instruction are lectures, worksheets, water and drainage drawings, power point presentations, and lab activities. At the end of each lesson the student should be quizzed and/or graded on his knowledge.

Interpretation and Application of the Uniform Plumbing Code and Idaho Statutes Title 54 - Chapter 26 – Plumbing and Plumbers - 60 Hours

- Administration and Idaho Title 54
- General Regulations
- Plumbing Fixtures and Fixture Fittings
- Water Heaters
- Water Supply and Distribution
- Sanitary Drainage
- Building Sewers
- Indirect Wastes
- Vents
- Traps and Interceptors
- Storm Drainage
- Fuel Piping

- Fire Stop Protection

Objectives:

- Identify the Uniform Plumbing Code that pertain to the above list.
- Explain Idaho Law administrative and enforcements rules
- Explain when the general regulations apply to various parts of the plumbing system (water, drainage, venting, etc.)
- Describe how plumbing fixtures are roughed-in and installed
- Explain the rules governing installation of water heaters
- Perform water pipe sizing exercises
- Describe the code requirements for the installation of water supply and distribution systems (materials, joints, connections, sizing, etc)
- Explain when and what type of backflow prevention devices, assemblies, and methods are required
- Describe the code requirements for the installation of drain and waste systems (materials, joints, connections, sizing, etc)
- Perform drain and waste pipe sizing exercises
- Describe the code requirements for the installation of public and private building sewers
- Identify and install an indirect waste system
- Describe the code requirements for the installation of the vent systems (materials, joints, connections, sizing, etc)
- Perform vent pipe sizing exercises
- Describe where traps are required in the plumbing system
- Identify and install an interceptor
- Describe the code requirements for the installation of storm drainage systems (materials, joints, connections, sizing, etc)
- Perform storm drainage pipe sizing exercises
- Describe the code requirements for the installation of fuel pipe systems (materials, joints, connections, sizing, etc)
- Perform fuel pipe sizing exercises
- Explain the general requirements for fire stop protection

Commercial Blueprint Reading (Fairmont Park Elementary) - 42 hours

- Introduction to Commercial Blueprints
- Basic Plumbing Symbols and Abbreviations
- Spec Book relationship to the plan
- Plumbing Rough-in
- Plumbing Fixtures
- Coordinate with other construction trades on the job

Objectives:

- Understand the Different Illustrated Views of a building
- Understand Basic Plumbing Symbols and Abbreviations
- Describe how the Spec Book relates to the plan
- Identify the requirements necessary for the rough in of the drain, waste, and vent system, water supply and distribution system, gas piping system, etc.
- Identify the necessary requirements and locations to properly install the plumbing fixtures and plumbing appurtenances
- Identify the reasons for coordination of trades on the job site

ADA Guidelines - 8 hours

- ADA Guidelines related to plumbing

Objectives:

- Identify and describe the necessary requirements to plumb according to ADA standards

Math Applications - 18 Hours

- Jumper Offsets
- Offsets in Parallel
- Rolling Offsets
- Cast Iron Assemblies with Various Bends
- Review of Area and Volume

Objectives:

- Describe a jumper offset
- Determine center-to-center and end-to-end lengths for parallel offsets
- Visualize a rolling offset
- Calculate the travel for a rolling offset
- Solve for e-e lengths of cast iron pipe
- Calculate area, water volumes, weights, and gallons for various geometric shapes

Lab - 40 hours

For those schools with a lab, these hours may be completed entirely in a lab setting. For those who do not, the instructor should make every attempt to use a company's space & equipment or the instructors may explain through lecture and demonstration.

- ADA bathroom groupings
- Cast Iron No hub Rough-in

Objectives:

- Layout lavs, water closets, tubs, kitchen sinks according to ADA requirements
- Given various bathroom blueprint layouts – rough in using cast iron no hub pipe and fittings

Plumbing Apprenticeship Year 4

Revised June 2011

College of Western Idaho

in cooperation with

Idaho State Division of Professional Technical Education

Total Suggested Hours - 168

Each of the following subjects may take more or less time than is shown, but a minimum of 144 hours is required.

Suggested Materials:

- 30/60/90 degree angle
- Calculator (Home Project Calc or one that will add feet & inches)
- Architect Ruler
- Metal Tape Measurer -any size

Optional: T – Square

Suggested Textbooks:

1. ***Uniform Plumbing Code 2003 Illustrated Training Manual**, ISBN 1081-3802; Web site: <http://www.iapmo.org>; Email address: iapmo@iapmo.org
2. **Uniform Plumbing Code 2003 Loose Leaf**, ISBN 0733-2335; Web site: <http://www.iapmo.org>; Email address: iapmo@iapmo.org
3. ***Mathematics for Plumbers and Pipe Fitters** (6th Edition) ISBN 1-4283-0461-4 or the new 7th Edition (either will work)
4. Current Copy of the **Idaho Code & Administrative Rules Pamphlet**. Students can print it from www.Dbs.idaho.gov or call the Idaho Division of Building Safety for a copy.

Instructions:

This outline is organized by subjects. Each subject should be broken down into lessons. It may be more effective if the instructor combines a portion of each subject area together into a lesson. For example, you might break a three hour lesson into three one-hour sections, one hour on Safety, one hour on Math, and one hour on Codes. The instructor should concentrate on the student achieving the basic objectives stated. Suggested methods of instruction are lectures, worksheets, water and drainage drawings, power point presentations, and lab activities. At the end of each lesson the student should be quizzed and/or graded on his knowledge.

Interpretation and Application of the Uniform Plumbing Code and Idaho Statutes Title 54, Chapter 26: Plumbing and Plumbers – 123 hours

- Administration and Idaho Title 54
- General Regulations
- Plumbing Fixtures and Fixture Fittings
- Water Heaters
- Water Supply and Distribution
- Sanitary Drainage
- Building Sewers
- Indirect Wastes
- Vents
- Traps and Interceptors

- Storm Drainage
- Fuel Piping
- Fire Stop Protection

Objectives:

- Identify the codes pertaining to the above list from the Uniform Plumbing Code
- Describe Idaho Law administrative and enforcements rules
- Explain when the general regulations apply to various parts of the plumbing system (water, drainage, venting, etc.)
- Describe how plumbing fixtures are roughed-in and installed
- Explain the rules governing installation of water heaters
- Perform water pipe sizing exercises
- Describe the code requirements for the installation of water supply and distribution systems (materials, joints, connections, sizing, etc)
- Explain when and what type of backflow prevention devices, assemblies, and methods are required
- Describe the code requirements for the installation of drain and waste systems (materials, joints, connections, sizing, etc)
- Perform drain and waste pipe sizing exercises
- Describe the code requirements for the installation of public and private building sewers
- Identify and install an indirect waste system in a lab. *See below.
- Describe the code requirements for the installation of the vent systems (materials, joints, connections, sizing, etc)
- Perform vent pipe sizing exercises
- Describe where traps are required in the plumbing system
- Identify and install an interceptor in a lab. *See Below.
- Describe the code requirements for the installation of storm drainage systems (materials, joints, connections, sizing, etc)
- Perform storm drainage pipe sizing exercises
- Describe the code requirements for the installation of fuel pipe systems (materials, joints, connections, sizing, etc)
- Perform fuel pipe sizing exercises
- Explain the general requirements for fire stop protection

Isometric Drawings and Material Lists – 21 hours

- Drain, Waste and Vent System Drawing
- Water Distribution System Drawing
- Drain, Waste and Vent System Material List
- Water Distribution System Material List
- Trim Material List

Objectives:

- Given a set of residential blueprint drawings (example: residence on plumbing street). The student will complete to minimum UPC standards the following:
 - Isometrically draw the drain, waste and vent system
 - Isometrically draw the water distribution system
 - Create a material list for the drain, waste and vent system
 - Create a material list for the water distribution system
 - Create a material list of the plumbing fixtures and trim

Safety – 6 hours

- Recognizing safe and unsafe working conditions in the work place environment

Objectives:

- Give examples of direct and indirect costs of workplace accidents
- Identify safety hazards of the construction industry

Math Applications – 18 hours

- Area
- Volume
- Pressures

Objectives:

- Calculate area for various geometric shapes
- Calculate water volumes, weights, and gallons for various geometric shapes
- Calculate pressure from height of water

***Lab** - For those schools with a lab, these hours may be completed entirely in a lab. For those who do not, the instructor should make every attempt to use a company's space & equipment or the instructors may explain through lecture and demonstration.

IDAHO PLUMBING BOARD

Agenda Item No. 07

SureSeal Inline Floor Drain Trap Sealer

PRESENTER: John Nielsen

OBJECTIVE: To approve or disapprove the use of SureSeal Trap Sealers in Idaho.

ACTION: The Board to vote on whether to allow the use of the SureSeal product in the state of Idaho.

BACKGROUND: Donald Huber with SureSeal would like the Board to consider the use of SureSeal Trap Sealers in Idaho as an alternate method for maintaining floor drain trap seals.

At the July Board meeting, John Nielsen suggested, and Chairman Terrell requested additional information be brought to the October meeting on the SureSeal product. The Board will make a final decision whether to permit the use of the product in the state of Idaho at that time.

PROCEDURAL HISTORY:

ATTACHMENTS: SureSeal Brochure



Waterless Trap Primer

Cost Savings

- Initial cost plus installation is much less expensive than alternative solutions.
- Eliminates the need for complex, time consuming, and expensive repairs when trap primers fail. **No walls or floors to tear up to access the problem.**

Eco-friendly - Saves Water

- Reduces use of potable water – lowering water bills.
- Reduces flow of water through sewage treatment systems increasing existing plant capacity.

Application

- **New Construction:** Used in floor drains to provide protection against escaping sewer gases. Eliminates the need to use and/or repair/replace trap primers when they fail.
- **Retrofit:** Used in situations where trap primers have failed or where trap primers were never installed.

Stop floor drain odors before they start with waterless trap protection.



The Green Solution™ Inline Floor Drain Trap Sealer

(877) 201-2663 • (253) 564-0624

www.TheSureSeal.com

IAPMO Listed: 4165 • ASSE 1072 Approved
Patent US 6,273,124 B1 • CA Patent 2,450,304

Other Patents Pending



Stop floor drain odors before they start with waterless trap protection.



PRECISION ENGINEERED
ASSEMBLED IN THE
USA

The Green Solution™



Inline Floor Drain Trap Sealer

www.TheSureSeal.com

IAPMO Listed: 4165 • ASSE 1072 Approved
Patent US 6,273,124 B1 • CA Patent 2,450,304

Trap Primer Replacement

DRAIN SIZE FLOW RATE

2" ≥12 GPM



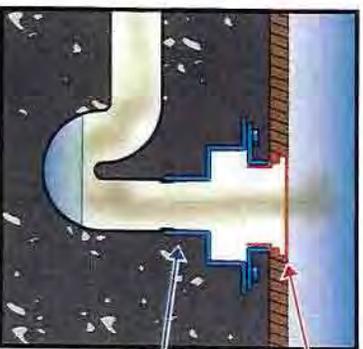
3" ≥34 GPM



3.5" & 4" ≥73 GPM

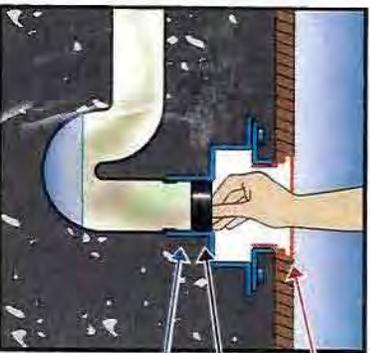


BEFORE



Strainer
Floor
Drain Outlet

AFTER



Strainer
Floor
SureSeal
Drain Outlet

New Construction & Retro-Fit

- Fast and Easy to Install
- No Special Tools Required
- Low Maintenance
- No Flow Restriction
- 100% Effective & Safe
- 10-Year Limited Warranty
- Eliminate Call-Backs

Visit TheSureSeal.com

for video demos, spec sheets, performance info, and much more.

The *SureSeal Inline Floor Drain Trap Sealer* is the green solution for replacing failed trap primers and quickly and easily solving problems associated with drains.

Saving the planet one drain at a time!



IDAHO PLUMBING BOARD

Agenda Item No. 08

Aquatherm

PRESENTER: John Nielsen

OBJECTIVE: To approve or disapprove the use of Aquatherm products for potable water systems in Idaho.

ACTION: The Board to vote on whether to allow the use of Aquatherm products in the state of Idaho.

BACKGROUND: Prior to the May 2011 Board meeting, Jim Paschal contacted Plumbing Program Manager John Nielsen about the use of Polypropylene for a future job in Idaho. Mr. Nielsen informed Mr. Paschal that since IAPMO has not approved it for use in potable water systems he would not approve it but could bring it before the Board and see if they would approve its use.

PROCEDURAL HISTORY:

ATTACHMENTS: Aquatherm Documentation



Welcome to Aquatherm

For nearly four decades, Aquatherm has been a global leader in polypropylene pressure piping systems. We pride ourselves on using the most advanced technology to provide the highest quality product manufactured anywhere in the world.

Aquatherm has attained international renown by always working to be the best. We relentlessly test our existing products to ensure that they continue to meet the highest performance standards. And we are constantly improving and innovating on our existing technologies, searching for ways to make them even better. Our piping systems are engineered to last for over 50 years without leaking, corroding, or wearing out.

And while we strive for excellence in performance, we also uphold the philosophy that production should never interfere with environmental responsibility. Aquatherm's products are manufactured to the highest ecological standards, leaving a smaller carbon footprint than other piping systems. Our polypropylene pipes and fittings are designed to outlast other materials and can be fully recycled when their service-life is complete.

We are a pioneer in polypropylene piping systems, working to bring people the quality, reliability, and performance they need for the most basic elements of their lives. From pure drinking water to efficient heating and cooling solutions, we provide systems that you can count on every single day. Take a look and see how Aquatherm's piping technology can help improve the quality of your life.



1973

Founding of Aquatherm by Gerhard Rosenberg

1978

Transfer to the first factory in Biggen, Attendorn

1985

Factory 1 in Biggen, Attendorn completed

1992

Founding of the branch in Radeberg near Dresden

1996

Founding of the metal processing company Aquatherm Metal in Attendorn

1998

Founding of a subsidiary in Carrara, Italy

1999

Main site in Attendorn completed as one complex (factories 1+2, production and storage, laboratory and training center)

2001

Extension of plant 2 in Attendorn completed

2001

Opening of the new training center in Radeberg

2002

Logistics center in Attendorn completed

2003

Renovation of the Attendorn training center completed

2005

Plant 1, extension of main office building

2005

Aquatherm launches in North America

2005/06

Completion of the 4-story hall in Attendorn

2008

Renovation of the new technology center completed

aquatherm greenpipe®

The ultimate in potable piping technology

The **aquatherm greenpipe®** system is a pressure pipe system with a wide range of applications. Exceptional chemical purity and revolutionary physical strength have made **aquatherm greenpipe®** successful in over 70 countries worldwide during the last 35 years.

The **aquatherm greenpipe®** system can be used in almost every aspect of the piping industry, but is best suited for potable and food-grade applications, where the combination of chemical safety and physical durability can truly perform. Aquatherm Greenpipe can also be used for multipurpose residential / domestic water applications per NFPA 13D.

More than 400 joining and connection elements, as well as valves and ball valves, complete the system. The dimensions range from $\frac{3}{8}$ " to 12" nominal diameter (N.D.). Aquatherm Greenpipe is also available with fiber-composite technology, which reduces linear expansion, and UV protection for outdoor installations.

climatherm®

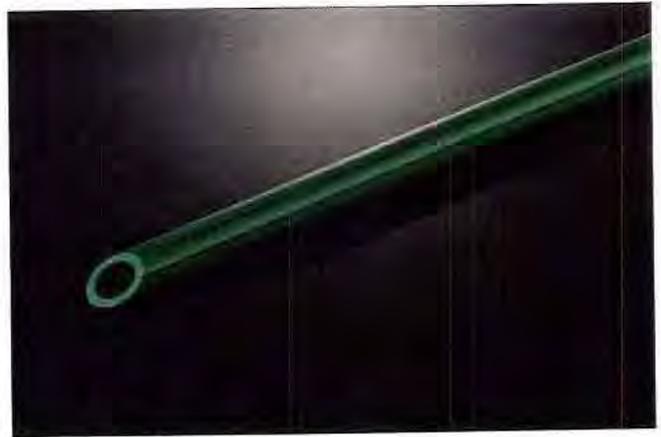
A better choice for hydronics, compressed air, and industrial applications

The **climatherm®** pipe system is engineered specifically for applications beyond potable water installations. It offers a tougher, longer lasting, more environmentally responsible solution to comparable non-potable pressure systems.

In addition to the general advantages of the **PP-R** pipe system **climatherm®** offers higher volumetric flow values due to smaller wall thickness, and is high-heat stabilized for short exposures to temperatures beyond the intended design. Climatherm is extremely resistant to impact, corrosion, and seismic stresses.

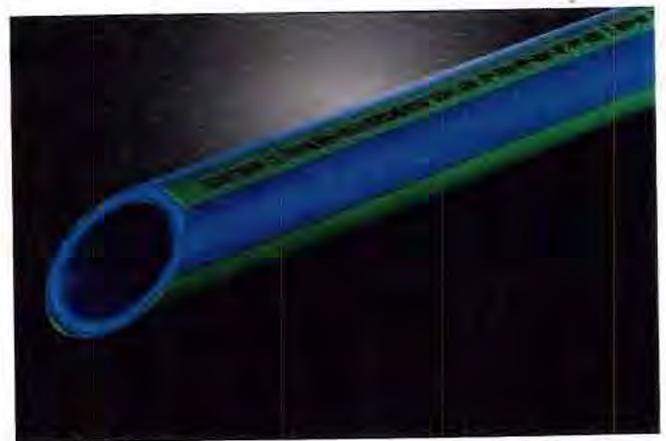
The **climatherm®** system uses the same fittings and tools as the **aquatherm greenpipe®** system, making installation simple and easy. The dimensions range from $\frac{1}{2}$ " to 12" nominal diameter. Climatherm is also available with fiber-composite technology, which reduces linear expansion, and UV protection for outdoor installations.

The conditions, regulations and recommendations, described in chapter 3 "Planning," chapter 4 "Installation Principles" and chapter 5 "Heat Fusion" apply to all Aquatherm piping systems. The fittings used with the pipe are listed in chapter 6 "Product Range."



The Greenpipe Advantage

- Leak-free connections
- Resistant against hard water aggressive chemicals
- Environmentally friendly material
- Reduced insulation requirements
- Higher flow speed
- Potable and food rated
- Fast and easy assembly
- Flame, smoke, and fume-free installation
- Reduced noise from water hammer and vibration



The Climatherm Advantage

- Resistant to most chemicals
- Increased flow rate
- Fast, welded connections
- Light, impact resistant material
- Corrosion-free pipe and fittings
- Natural sound and heat insulation
- Long lasting
- Fully recyclable

IDAHO PLUMBING BOARD

Agenda Item No. 09

Color Definition of Inspection Tags

PRESENTER: John Nielsen

OBJECTIVE: Remove color reference (red) and modify rule to reflect the language of current tags.

ACTION: Informational

BACKGROUND: DBS has recently changed inspections tags for uniformity amongst the trades.

PROCEDURAL HISTORY:

ATTACHMENTS: Current rules with proposed changes



Other Installations Including Industrial and Commercial.

The inspection fees listed in this Section shall apply to any and all plumbing installations not specifically mentioned elsewhere in this schedule. The plumbing cost shall be the cost to the owner of all labor charges and all other costs that are incurred in order to complete the installation of any and all plumbing equipment and materials installed as part of the plumbing system. (3-26-08)

a. Plumbing system cost not exceeding ten thousand dollars (\$10,000): sixty dollars (\$60) plus two percent (2%) of the total plumbing system cost. (3-26-08)

b. Plumbing system cost over ten thousand dollars (\$10,000), but not exceeding one hundred thousand dollars (\$100,000): two hundred sixty dollars (\$260) plus one percent (1%) of the plumbing system cost exceeding ten thousand dollars (\$10,000). (3-26-08)

c. Plumbing system cost over one hundred thousand dollars (\$100,000): one thousand one hundred sixty dollars (\$1,160) plus one half of one percent (.5%) of the plumbing system cost exceeding one hundred thousand dollars (\$100,000). (3-26-08)

d. All fees calculated under this schedule must be calculated on the total plumbing cost of the job and this figure must be shown on the permit. (3-26-08)

05. Requested Inspections. A fee of sixty-five dollars (\$65) per hour or portion of an hour shall apply, with the requesting party responsible for all costs incurred in out-of-state travel. (3-26-08)

06. Additional Fees and Re-Inspection Fees. A fee of sixty-five dollars (\$65) per hour or portion of an hour shall apply to: (3-26-08)

a. Trips to inspect when: (3-26-08) i. The submitter of the permit has given notice to the Division of Building Safety that the work is ready for inspection and it is not; or (3-26-08) ii. If the submitter has not accurately identified the work location; or (3-26-08) iii. If the inspector cannot gain access to make the inspection. (3-26-08)

b. Trips to inspect corrections required by the inspector as a result of the submitter improperly responding to a corrective notice. (3-26-08)

c. Each trip necessary to remove a red tag from the jobsite. (3-26-08)

d. When corrections have not been made in the prescribed time, unless an extension has been requested and granted. (3-26-08)

e. No permit - failure to post or send permit and required fee in the prescribed time will, at the discretion of the Division, result in the assessment of a double fee. (3-26-08)

07. Plan Checking Fee. Sixty-five dollars (\$65) per hour or portion thereof. (3-26-08)

08. Mobile Homes. Each connection or re-connection to existing sewer and water stubs shall be sixty-five dollars (\$65). (3-26-08)

09. Mobile Home Parks and/or RV Parks. Sewer and water service lines in mobile home parks and RV parks shall be classed as commercial. NOTE: This does not include or permit the connection of the mobile home. See Subsection 011.04, of these rules. (7-11-89)

10. Residential. Lawn sprinklers shall be sixty-five dollars (\$65). (3-26-08)

IDAPA 07 TITLE 02 CHAPTER 04

07.02.04 - RULES GOVERNING PLUMBING SAFETY INSPECTIONS

000.LEGAL AUTHORITY.

In accordance with Section 54-2605(1), Idaho Code, the Idaho Plumbing Board shall make, promulgate, and publish such rules as may be necessary for carrying out the provisions of this act in order to effectuate the purposes thereof and for the orderly and efficient administration thereof, and except as may be limited or prohibited by law and the provisions of this act, such rules so made and promulgated shall have the force of statute. (2-26-93)

001.TITLE AND SCOPE.

These rules shall be cited as IDAPA 07.02.04, "Rules Governing Plumbing Safety Inspections," Division of Building Safety. These rules prescribe the criteria for the inspections of plumbing installations and additional requirements. (2-26-93)

002.WRITTEN INTERPRETATIONS.

This agency has no written interpretations of this chapter. (2-26-93)

003.ADMINISTRATIVE APPEALS.

IDAPA 04.11.01, "Idaho Rules of Administrative Procedure of the Attorney General," govern license revocation/ suspension proceedings. (2-26-93)

004. -- 010.(RESERVED).

011.REQUIRED INSPECTIONS.

01. Ground Work Inspection Tags. For ground work to be covered, with acceptance by the inspector. A tag will be attached in a prominent location, preferably to a vertical riser. (5-8-09)

02. Rough-In Inspection Tags. For rough-in, prior to covering or concealing with acceptance by the inspector. A tag will be placed in a prominent location. (5-8-09)

03. Final Inspection Tags. For final, attached when the plumbing as specified on the permit is complete and conforms to the requirements of the code. (5-8-09)

04. Inspection Tags for Unacceptable Plumbing. Correction Notice: ~~Red: Not acceptable, and~~ when attached to the plumbing system means that the plumbing is not acceptable and that corrections will be required. **Also, a reinspection and reinspection fee shall be required. (6-4-76)**

012.REQUIREMENTS IN ADDITION TO THE PLUMBING CODE.

01. Cross Connection Control Manual. The "Cross Connection Control Manual" published by the Pacific Northwest Section of the American Water Works

Association (December, 1995 6th Edition) is hereby adopted as the standard for cross connection control and back flow prevention devices. (5-3-03)

02. Jurisdiction/Septic Systems. Septic tank and drain fields: Under the definition of a plumbing system as set forth in Section 54-2604(h), Idaho Code, the plumbing contractor's interest and responsibility ceases with the "connection" to the septic tank. (11-14-85)

03. Waste Disposal. The Department of Health and Welfare is the inspection authority on waste disposal. (6-4-76)

013. -- 999. (RESERVED)

IDAHO PLUMBING BOARD

Agenda Item No. 10

Schedule 2012 Meeting Dates

PRESENTER: Chairman Milford Terrell

OBJECTIVE: Schedule 2012 meeting dates

ACTION: Vote to accept or reject the 2012 meeting dates as addressed under "Background".

BACKGROUND: The following 2012 dates were selected for the Board's consideration: February 9th or 23rd -- May 10th or 24th -- July 26th -- October 11th or 25th

PROCEDURAL HISTORY:

ATTACHMENTS: 2012 Board Meeting Calendar



DBS BOARD MEETINGS - 2012

TENTATIVE

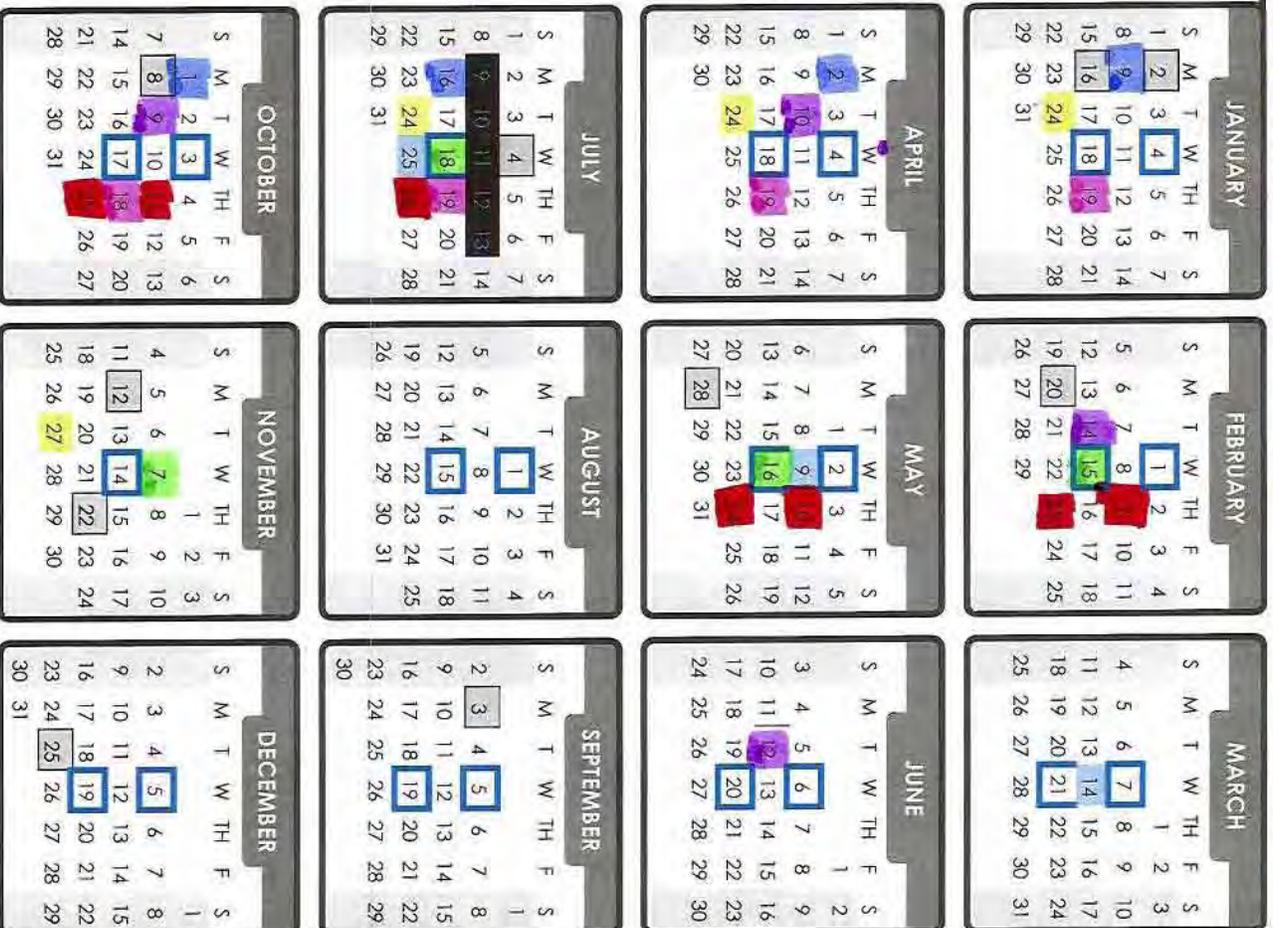
2012

Board Meetings will be held at each
 Division of Building Safety regional office
 either in person or through video conferencing

1090 E WATERTOWER ST SUITE 150 MERIDIAN, ID 836442	1250 IRONWOOD DR SUITE 220 COEUR D'ALENE, ID 83814	2055 GARRETT WAY BLD 2, SUITE 7 POCATELLO, ID 83201
--	--	---

Idaho Building Code Board	Feb 14 - Apr 10 - Jun 12 - Oct 9
Idaho Electrical Board	Jan 19 - Apr 19 - Jul 19 - Oct 18
Idaho HVAC Board	Feb 15 - May 16 - Jul 18 - Nov 7
Manufactured Housing Board	JAN 24 APR 24 JUL 24 NOV 27
Modular Building Advisory Board	MAR 14 MAY 9 JUL 25
Idaho Plumbing Board	Feb 9 or 23 - May 10 or 24 Jul 26 - Oct 11 or 25
Public Works Contractors Licensing Board	Jan 9 - Apr 2 - Jul 16 - Oct 1

Holidays outlined & highlighted in gray
 Management meetings outlined in blue
 Unavailable dates blacked out



IDAHO PLUMBING BOARD

Agenda Item No. 11

Schooling Update

PRESENTER: Irene Vogel, PTE

OBJECTIVE: To update the Board on Professional Technical Education's (PTE) current school activities, enrollments, etc.

ACTION: Informational

BACKGROUND:

PROCEDURAL HISTORY:

ATTACHMENTS: No documentation



IDAHO PLUMBING BOARD

Agenda Item No. 12

Instructor Qualification and Certification

PRESENTER: Irene Vogel, PTE

OBJECTIVE: To inform the Board on the current qualification/certification process to become an instructor through PTE.

ACTION: Informational

BACKGROUND: At the July Board meeting, Milford Terrell stated he had received a letter from CWI in regard to instructor certification through PTE. Ms. Vogel was asked to respond, in writing, to DBS stating the qualification and certification process to become an instructor.

PROCEDURAL HISTORY:

ATTACHMENTS: No documentation



IDAHO PLUMBING BOARD

Agenda Item No. 13 Commercial Plumbing – Idaho Code § 54-2602

PRESENTER: John Nielsen

OBJECTIVE: To determine if the intent of Idaho Code § 54-2602 (e) is to allow an employer who regularly employs maintenance or construction plumbers to do any plumbing, as it is written, or if the intent is for repairs and replacements only.

ACTION: Informational

BACKGROUND: This topic was brought before the Board by the Plumbing Program Manager at the May 2011 Board meeting.

**PROCEDURAL
HISTORY:**

ATTACHMENTS: Idaho Code § 54-2602 “Exceptions”



ALTERATION:

- 1) The act or process of altering; the state of being altered
- 2) A change; modification or adjustment

ALTER:

- 1) To make different in some particular way, as size, style, course or the like.
- 2) To change; become different or modified

§ 54-2602. Exceptions

(1) Certificate of competency requirements of this chapter shall not be deemed to apply to:

(a) Any person who does plumbing work in a single or duplex family dwelling, including accessory buildings, quarters and grounds in connection with such dwelling; provided that such person owns or is a contract purchaser of the premises, and provided further that such person shall comply with the minimum standards and rules applicable to plumbing practices provided by this chapter.

(b) Farm buildings located outside the incorporated limits of any city unless such buildings are connected to a public water or sewer system; and a farm building is hereby defined to be a structure located on agricultural zoned property and designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products and includes sheds, barns, corrals, or fences. This definition does not include a place for human habitation or a place of regular employment where agricultural products are extracted, processed, treated, or packaged; a place used by the public; or conditioned livestock housing,

(c) Logging, mining or construction camps when plumbing installations are made to conform with the recommendations of the department of health and welfare.

(d) Piping systems in industrial processing plants located outside the incorporated limits of any city unless such systems are connected to a public water or sewer system.

(e) Work on plumbing systems on premises owned or operated by an employer who regularly employs maintenance or construction plumbers performing alterations, repairs, or replacements, provided that such alterations, ~~extensions and new construction~~ repairs or replacements, shall comply with the minimum standards and rules applicable to plumbing practices provided by this chapter.

(f) Nothing contained in this section or any other provision of this code shall be construed or applied to require a sewer contractor, sewage disposal contractor, or any excavating or utility contractor who generally engages in the business of installing, altering or repairing sewers, private and public sewage disposal systems, and water distribution and/or drainage lines outside the foundation walls of any building or structure, to obtain a valid contractor's certificate of competency or to employ only journeymen plumbers possessing a valid journeyman plumber's certificate of competency or registration, or to in any way require that his employees be registered, licensed or declared competent by the board.

(g) Water treatment installations and repairs when installed in residential or business properties, provided the same when installed, repaired or completed, shall be inspected by a designated, qualified and properly identified agent of the division of building safety as to quality of workmanship and compliance with the applicable provisions of this chapter.

(h) Plumbing work within modular buildings as defined in section 39-4301, Idaho Code, that are constructed in the state of Idaho for installation on building sites outside the state; provided however, that no modular building shall be installed on a building site in the state of Idaho until it has been approved and bears the insignia of approval of the division as being in compliance with the requirements set forth in section 39-4304, Idaho Code.

(i) Individuals licensed pursuant to chapter 10, title 54, Idaho Code, or chapter 50, title 54, Idaho Code, as follows:

(i) Individuals holding a current HVAC or electrical license may install electrical circuitry from the disconnecting means to a water heater and electrical connections to the water heater as long as the disconnect is in sight from the unit and the circuit from the disconnecting means to the water heater is no more than fifty (50) feet long.

(ii) Individuals holding a current HVAC license may install gas piping and piping for hydronic systems.

(iii) Individuals holding a current HVAC license may install boilers that are not otherwise subject to inspection by the industrial commission or its authorized agent.

(2) To the extent that an electrical or HVAC installation permit issued by the Idaho division of building safety includes any part of a plumbing installation, the permit issued and inspection performed shall be sufficient to satisfy the permitting and inspecting requirements of this chapter if all required permit fees have been paid.

(3) Any person, firm, copartnership, association or corporation making water treatment installations and/or repairs in accordance with the provisions of this chapter shall maintain a surety bond in the amount of two thousand dollars (\$ 2,000).

IDAHO PLUMBING BOARD

Agenda Item No. 14 Definition of Plbg. System-Liquid & Fuel Gas Piping

PRESENTER: John Nielsen

OBJECTIVE: To add 'liquid and fuel gas piping' to the statute defining a plumbing system.

ACTION: Informational

BACKGROUND: It has long been understood and accepted within the affected construction industries that fuel gas piping has always been a basic component of the plumbing trade; however, such installations are not currently part of the definition of a plumbing system in Idaho statute. The topic was brought up at the July, 2011 meeting and suggested the statute be amended to legally provide a basis for plumbers to make such installations, and for it to more accurately reflect current practices in the trade. This modification to statute would also align it with the definition of plumbing system contained in the Uniform Plumbing Code.

PROCEDURAL HISTORY:

ATTACHMENTS: Proposed statute modification



§ 54-2603. Plumbing

Plumbing 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, fixtures, appliances and appurtenances in connection with any plumbing system.

§ 54-2604. Plumbing systems

(1) A plumbing system, public or private, means and includes:

- (a) Plumbing fixtures, interconnecting system pipes and traps;
- (b) Soil, waste and vent pipes;
- (c) Building drains and building sewers;
- (d) Sanitary and storm water drainage facilities;
- (e) Liquid waste and sewerage facilities;
- (f) Water supply systems and distribution and disposal pipes of any premises;
- (g) Water treating and water using equipment attached to a plumbing system except for water conditioning equipment;
- (h) All the respective connections, devices and appurtenances of any plumbing system, public or private, within or adjacent to any building, residence, manufactured housing, or structure to and including a connection with any point of a public or private supply, distribution or disposal system or other acceptable terminal; and
- (i) Water heaters and all associated venting dedicated exclusively thereto.

(j) Liquid and fuel gas piping

(2) As used in this section, "water conditioning equipment" shall mean those devices necessary to remove impurities and sediment from water.

(3) A plumbing system does not include a single service integrated fire sprinkler system as defined in section 41-254, Idaho Code.

(4) It shall be unlawful for any person, firm, copartnership, association or corporation to do, or cause to be done, whether acting as a principal, agent, or employee, any construction, installation, improvement, extension or alteration of any plumbing system or water conditioning equipment in any residence, building, or structure, or service lines thereto, in the state of Idaho, without complying with the bonding provisions as provided by section 54-2602, Idaho Code.

IDAHO PLUMBING BOARD

Agenda Item No. 15

Listings and Standards

PRESENTER: John Nielsen

OBJECTIVE: To provide a quick overview of how IAPMO lists and approves products.

ACTION: Informational

BACKGROUND:

**PROCEDURAL
HISTORY:**

ATTACHMENTS: IAPMO Research and Testing documentation



IAPMO R&T

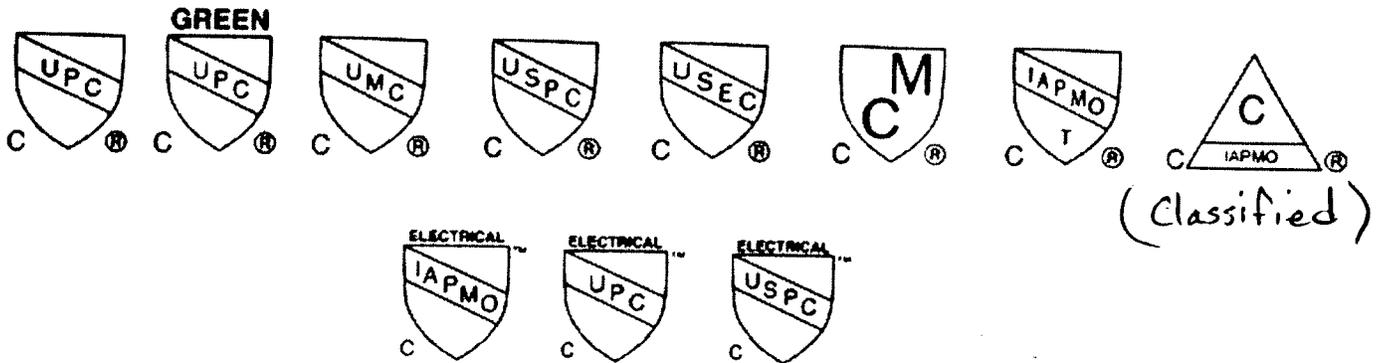
From Wikipedia, the free encyclopedia

IAPMO R&T was started in 1936 as a third-party listing agency specializing in plumbing and mechanical products. IAPMO R&T is accredited to certify products that meet the criteria of the Uniform Plumbing Code, Uniform Mechanical Code, Uniform Solar Energy Code, Uniform Swimming Pool, Spa and Hot Tub Code and other nationally recognized codes and standards in North America.

IAPMO R&T is accredited by the American National Standards Institute (ANSI) and Standards Council of Canada (SCC) to act as independent and authoritative conformity assessment body to operate a material and product listing and labeling (certification) system and is accepted globally by the Authorities Having Jurisdiction.

The product listing (certification) process includes initial and ongoing product testing, a periodic inspection on current production of listed products and making available a published report of the listed manufacturer and specific products that contain specific information regarding the material or product conformity to applicable standards and has been found safe for use in a specific manner.

IAPMO Marks of Conformity are widely recognized and represent the highest degree of integrity in showing compliance with established codes and standards including:



Recognizing the growing importance of water conservation, IAPMO R&T provides certification for the United States Environmental Protection Agency WaterSense program, as well as certification to the Green Plumbing and Mechanical Code Supplement.

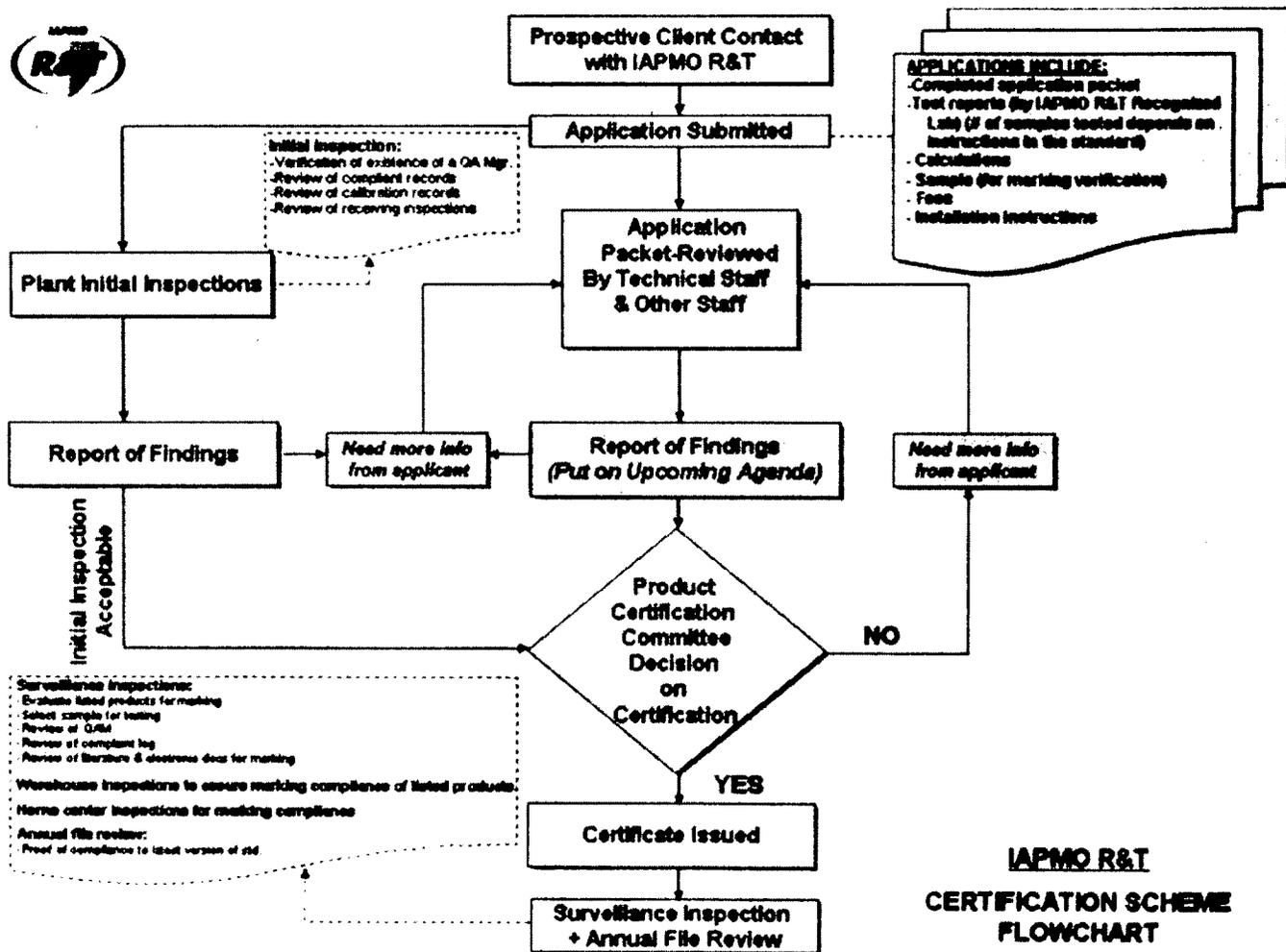


And in response to client demands, IAPMO R&T recently added two new services that include certification to other codes (e.g. International Plumbing Code) and the “two-in-one” certification for plastic pipes and fittings (NSF/ANSI 14 and equivalent ASTM standards).

Contents

- 1 Process
- 2 Customer Service
- 3 Scope of Products Listed Worldwide
- 4 Scope of Product Testing and Certification
- 5 Standards Development

Process



■ With Application, furnish one (1) copy of detailed, dimensioned engineering drawings (8½" × 11" in size) of the product, which includes the location, text and type of the required Certification Mark and all markings required by the product standard, i.e., etched, glass-over label, raised letters, etc. For showers and shower receptors, drawings to a scale of 1" = 1' are required.

■ Furnish one (1) copy of a test report(s) from an IAPMO R&T listed laboratory indicating compliance with the appropriate product standard. A list of IAPMO R&T listed laboratories is available at www.iapmo.org. Test reports shall not be more than one year old and must be in the required format. (Please note that the fees for testing are directly charged to you by your selected laboratory.)

- Deliver, prepaid and without charge to the attention of the Product Certification Committee (PCC) at the Association's office a sample or samples of the product. The exact number of samples will be determined by the IAPMO R&T technical staff. Samples must bear prototype marking of the IAPMO R&T Certification Mark. IAPMO R&T will not be responsible for loss or damage to any materials submitted. Unless samples are claimed within two weeks of notice of listing, IAPMO R&T may dispose of such materials. The Association may, at its discretion, permanently retain any sample.
- Furnish a normal size photograph of each product submitted for listing. Each photograph should contain as much marking and identification detail as possible.
- Furnish one (1) copy of the originals of the following: literature/brochures showing and describing the product, care and maintenance instructions, and installation instructions (color brochures may be used to satisfy this requirement).
- Furnish the street address, telephone number, name of the contact person at each plant and other information required in section 17 of the Listing Agreement for each location where the listed product is manufactured or warehoused or is to be manufactured or warehoused. This information is not required for component part manufacturing locations, but only for final assembly locations.

Acceptance by the Product Certification Committee (PCC) will be contingent upon the applicant furnishing to the Association's staff, appropriate production samples bearing the final appropriate markings prior to listing.

- For Electrical/Electro-Plumbing Product Certification: Provide 1 complete set of Bill of Materials, Electrical Schematics and Detailed Component List (Including: manufacturer, model, NRTL certification and complete electrical ratings).

Customer Service

IAPMO R&T works directly with the manufacturer during the certification process.

- Product testing at laboratories recognized to the requirements of ISO/IEC 17025
- Expert review by committee on U.S. and Canadian Plumbing Codes for compliance to these codes
- Test reports reviewed by qualified engineers covering every necessary discipline
- Continuous compliance reviews performed
- Review of drawings and supporting documentation at the manufacturing site
- Review of manufacturer's Quality Assurance system for compliance

Scope of Products Listed Worldwide

- Faucets
- Copper Tubing
- Toilets
- Backflow Preventers
- Drinking Water Treatment Units
- Electro-Plumbing Products

- Ducts, Boilers, Furnaces, Air Conditioners
- Swimming Pool, Spa and Hot Tub Products
- Solar-Energy Related Products: Photovoltaic and Thermal
- Precast Concrete Products
- Plastic Compounds
- Plastic Electrical Conduits
- Plastic Pipe Fittings and Compounds
- Manufactured Housing and Recreational Vehicle Product
- Product evaluation to ANSI/NSF 14 and ANSI/NSF 61 standards and the ability to have that compliance added to your company's certificate of listings
- An ISO 9001-2008 Program that can be customized to fit your company's unique needs—whether your company is small or large (IAPMO R&T is the only registrar dedicated to serving the plumbing industry)

Scope of Product Testing and Certification

- Uniform Plumbing Code (UPC)
- International Plumbing Code (IPC)
- National Plumbing Code of Canada
- NSF/ANSI 61
- NSF/ANSI 14
- All North American Plumbing Standards
- UL 1431
- UL 1795
- UL 1563 or equivalent Canadian Standards
- UL 1951
- AB 1953 California Lead Plumbing Law
- Vermont and Other Lead Test
- Green

Standards Development

For more than 30 years, IAPMO's standards-developing efforts have primarily focused on plumbing product standards. This concentration was primarily due to IAPMO members' expertise from more than 50 years of writing and updating the Uniform Plumbing Code (UPC).

Recently, IAPMO's efforts have broadened to include standards for mechanical products. Drawing on their years of experience, many IAPMO members have also contributed to the development of the Uniform Mechanical Code (UMC). Mechanical product standards cover heating, ventilation, cooling and refrigeration system products.

IAPMO also publishes standards covering products used in the Recreational Vehicle and Manufactured Housing Industry called IAPMO Trailer Standards.

The IAPMO Standards Department represents IAPMO in many standards-writing organizations throughout North America. These organizations include the American National Standards Institute (ANSI), the American Society for Testing and Materials (ASTM), the American Society of Mechanical Engineers (ASME), the American Society of Sanitary Engineering (ASSE), the Canadian Standards Association (CSA) and the Recreational Vehicle Industry Association (RVIA).

The IAPMO Standards Department is also involved in its own standards work. IAPMO publishes more than 200 current standards. These standards have been developed through IAPMO's standards development process. Many IAPMO standards have been developed into nationally recognized consensus standards in conjunction with organizations such as ANSI, ASME, ASSE and ASTM. The IAPMO Standards Department is also an ANSI-accredited Standard Development Organization (SDO), which develops and publishes IAPMO/ANSI consensus standards such as the Z124 documents for plastic plumbing products and the Z1000 series documents for waste disposal products.

IAPMO Guide Criteria

The IAPMO Standards Department works with industry to provide an opportunity for the development of new standards when no applicable standard exists for a product. Often, new products or technologies surge ahead far faster than many standards can keep pace. Through the IAPMO Guide Criteria (IGC) procedure, IAPMO provides manufacturers and product developers an opportunity to draft IAPMO standards as a vehicle for introducing new products. Once an IGC is accepted, IAPMO R&T can list products manufactured in compliance with the new requirements.

IAPMO Standards Review Committee

The IAPMO Standards Review Committee meets monthly to review all proposed new standards and standards changes submitted to IAPMO. These meetings are open to members of industry and the public at large. All sides have the opportunity to present their views and supporting information on the proposals discussed at these meetings. Proposals voted on by the Standards Review Committee are posted for 20 days on the IAPMO Standards Development Program 20 Day Public Review Website (<http://www.iapmostandards.org/Pages/20DayPublicReview.aspx>) for public comment.

Revising or Developing IAPMO Standards

Proposals may be submitted to IAPMO's Standards Department for revisions to existing IAPMO Standards or to develop new standards if no applicable standard exists for a product. Applications and fee schedules are available at [iapmostandards.org](http://www.iapmostandards.org) (<http://www.iapmostandards.org/Pages/Downloads.aspx>). Proposals and Applications must be submitted before the 26th of the month and will be reviewed by the Standards Review Committee (SRC) at the following monthly meeting.

Retrieved from "http://en.wikipedia.org/wiki/IAPMO_R%26T"

Categories: Professional titles and certifications | Plumbing

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IDAHO PLUMBING BOARD

Agenda Item No. 16

Renting of Contractor Licenses

PRESENTER: John Nielsen

OBJECTIVE: To discuss whether plumbing contractors can legally allow an individual to rent their licenses, and if so, to come up with a solution to the issue.

ACTION: Informational

BACKGROUND: John Nielsen has received numerous calls from contractors wondering what, if any, the Division plans to do about Plumbing contractors renting out their licenses.

As discussed at the May 2011 meeting, the current rules do not prohibit a licensed plumbing contractor from renting his license. Although anyone can pull a permit on the license, the licensed contractor is still responsible for actions taken under the license.

Discussion was opened to the public for comments/suggestions. The majority agreed for restrictions to the renting of a contractor license.

The Board supported John Nielsen continue to research options to restrict the use of the license; coming back to the July meeting with additional information.

PROCEDURAL HISTORY:

ATTACHMENTS: No documentation



IDAHO PLUMBING BOARD

Agenda Item No. 17

CEU Training for Plumbing Contractors

PRESENTER: Gilbert Pond

OBJECTIVE: Identify the course types, i.e., plumbing code, industrial, and the required number of hours for each course to qualify as a continuing education unit.

ACTION: Informational

BACKGROUND: At the July Board meeting, Gilbert Pond noted IDAPA 07.02.05.016.02c, “Continuing Education”, only specifies the number of hours of continuing education required for contractors.

At the request of Milford Terrell, John Nielsen and Mr. Pond will create a proposed rule change; breaking down the types of continuing education; i.e., plumbing code update, industrial, etc.

PROCEDURAL HISTORY:

ATTACHMENTS: No documentation



IDAHO PLUMBING BOARD

Agenda Item No. 18

Plumbing Program Manager Report

PRESENTER: John Nielsen

OBJECTIVE: To update the Board on the Plumbing Program's current activities.

ACTION: Informational

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

**PROCEDURAL
HISTORY:**

ATTACHMENTS: No documentation



IDAHO PLUMBING BOARD

Agenda Item No. 19

Operational Report

PRESENTER: Steve Keys

OBJECTIVE: To update the Board on the operations of the Plumbing Program and Division.

ACTION: Informational

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

PROCEDURAL HISTORY:

ATTACHMENTS: No documentation



IDAHO PLUMBING BOARD

Agenda Item No. 20a

Financial Report

PRESENTER: C. Kelly Pearce and Kirk Weiskircher

OBJECTIVE: To review the Idaho Plumbing Board's Financial Report.

ACTION: Informational

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

PROCEDURAL HISTORY:

ATTACHMENTS: Idaho Plumbing Board's Financial Report





Division of Building Safety

IDAHO PLUMBING BOARD FUND

Fiscal Year 2012 Financial Statements

As of 8/31/2011

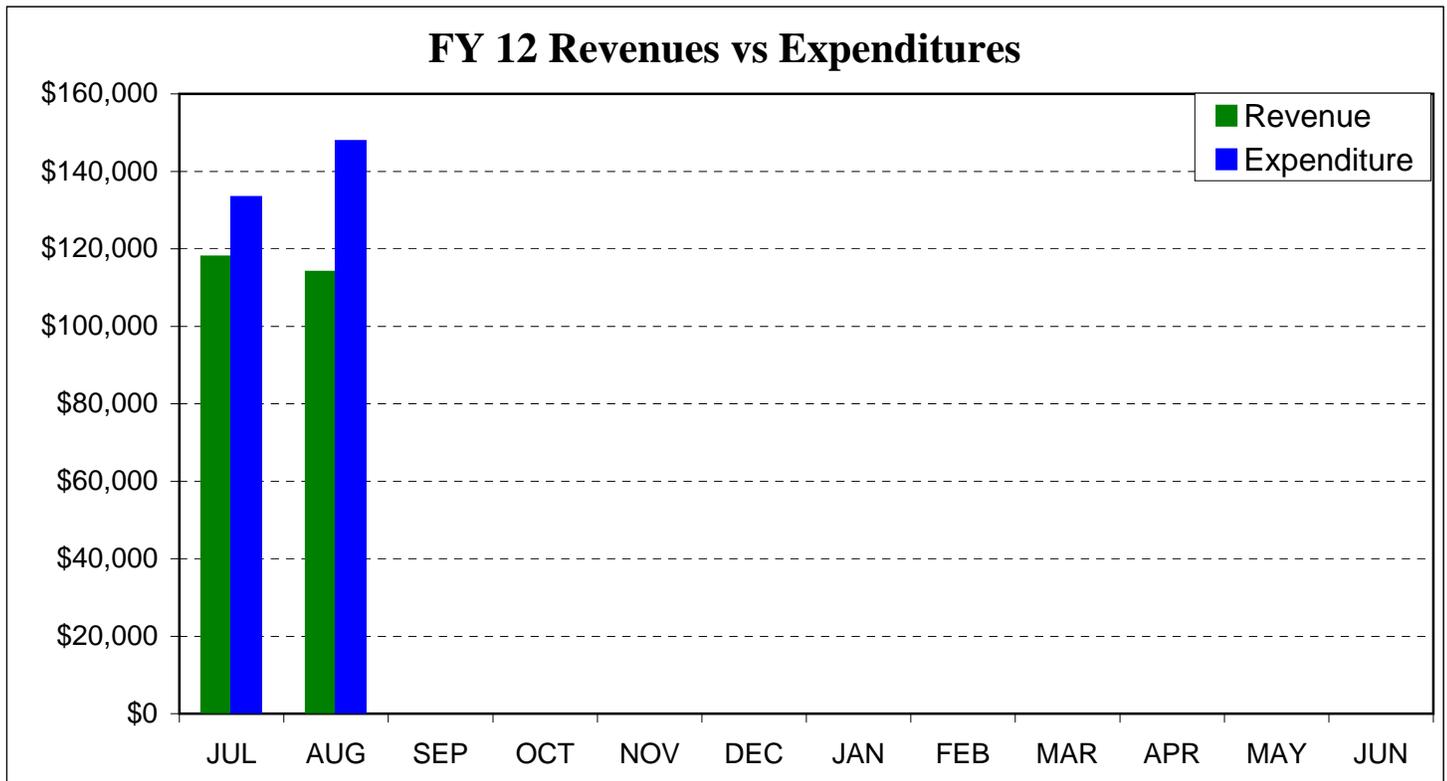
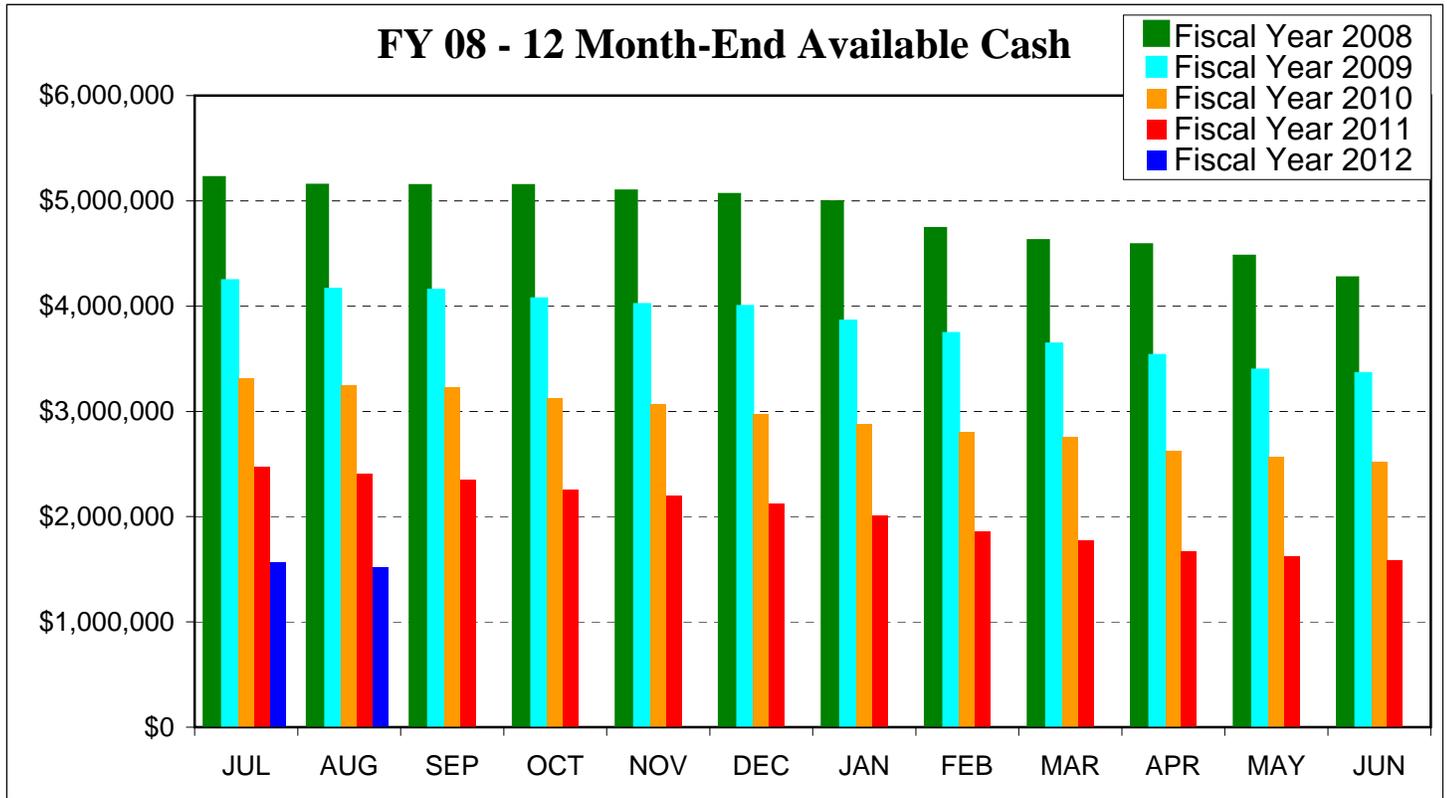
Statement of Revenues and Expenditures

Class	Budget	Fiscal Year To Date	YTD as a % of Budget *	Remaining Budget	Projected for Remainder of Projected Year	Projected End Totals	Projected Total as a % of Budget
Revenues:	1,065,000	231,892	21.8%	833,108	708,000	939,892	88.3%
Expenditures							
Personnel:	870,000	205,644	23.6%	664,356	734,600	940,244	108.1%
Operating:	230,000	75,484	32.8%	154,516	170,000	245,484	106.7%
Capital:	38,500	-	0.0%	38,500	38,500	38,500	100.0%
Total Expenditures	1,138,500	281,129	24.7%	857,371	943,100	1,224,229	107.5%
Net for FY 2012	(73,500)	(49,237)			(235,100)	(284,337)	

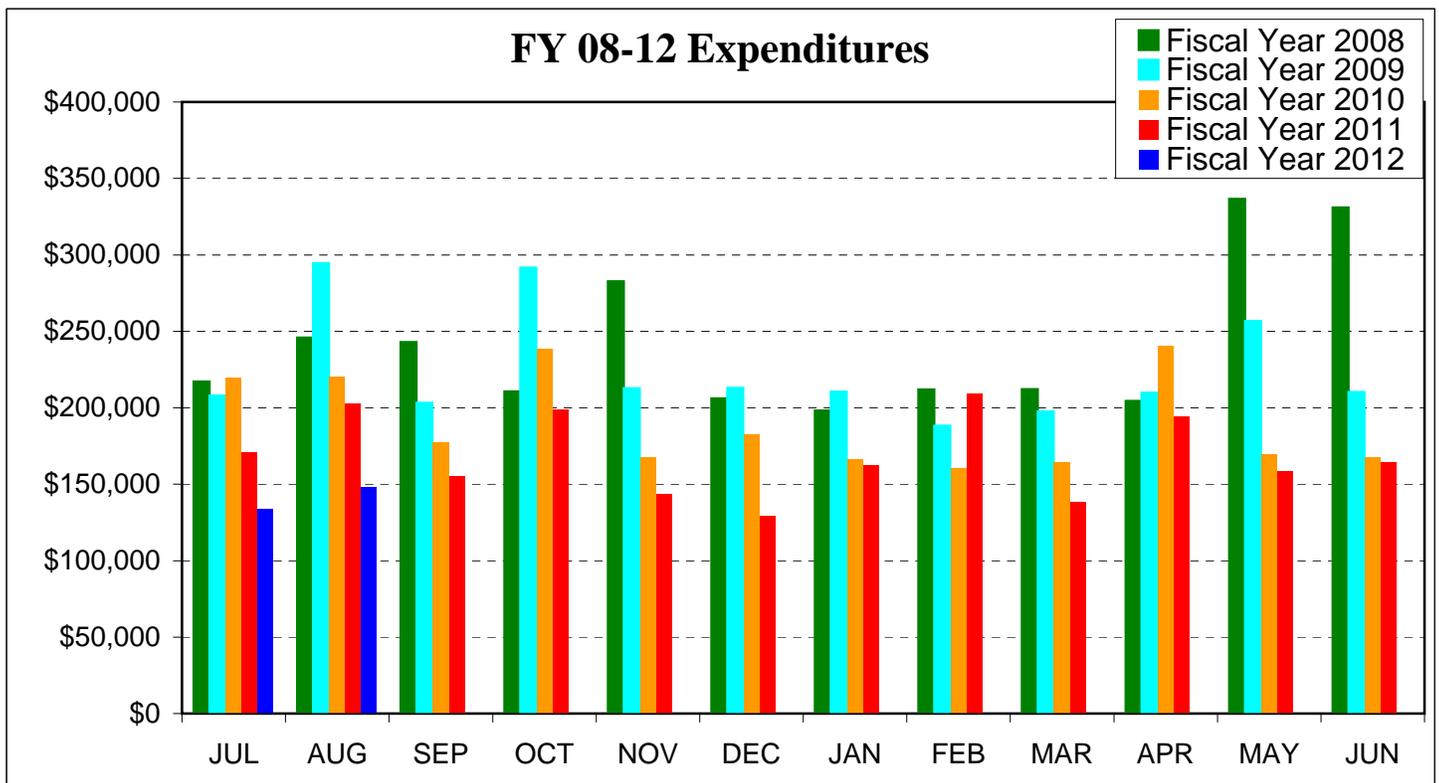
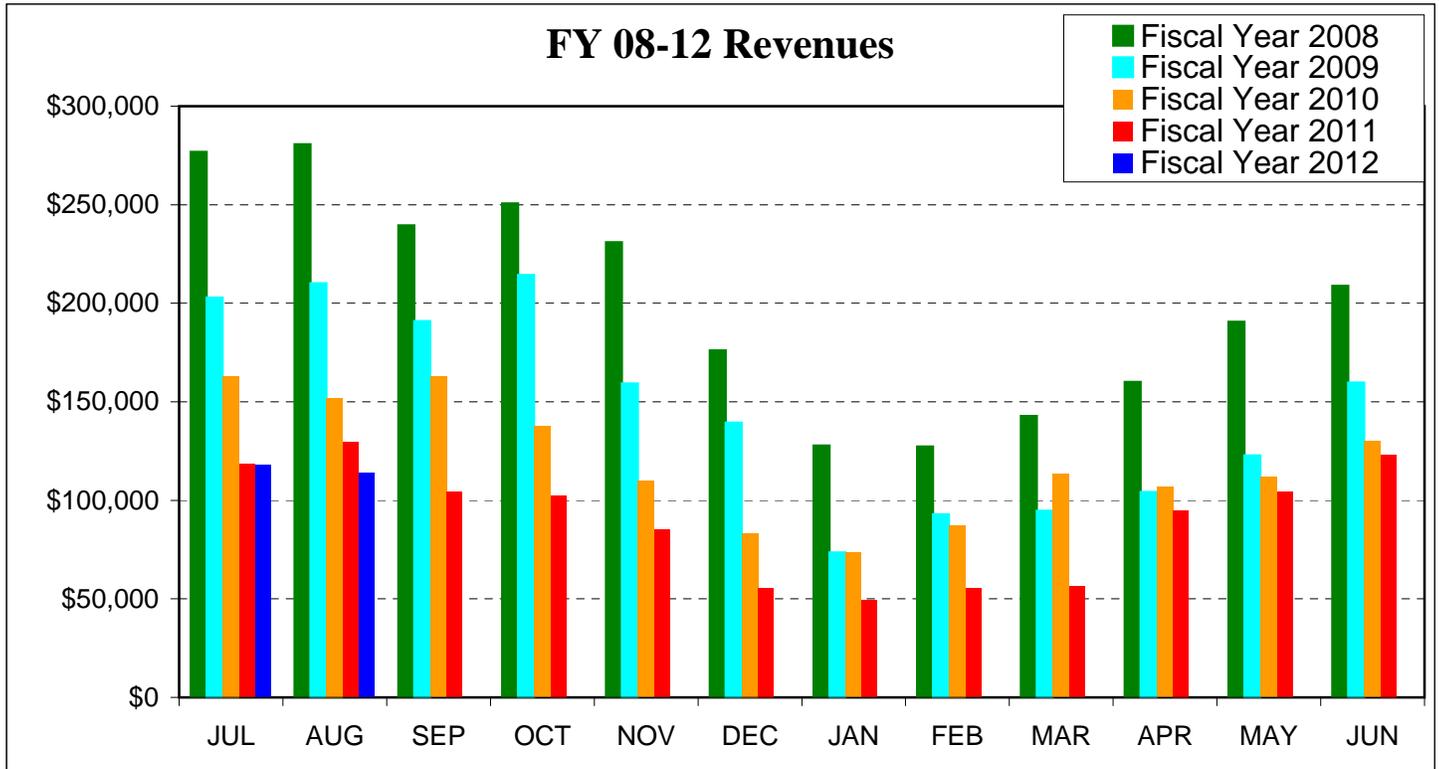
Statement of Cash Balance

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
1,573,644	231,892	(281,129)	(11,101)	1,513,307	(235,100)	1,278,207

IDAHO PLUMBING BOARD FUND



IDAHO PLUMBING BOARD FUND



IDAHO PLUMBING BOARD

Agenda Item No. 20b

Administrator

PRESENTER: C. Kelly Pearce

OBJECTIVE: To provide the Board with an overview of the Division's current activities.

ACTION: Informational

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

**PROCEDURAL
HISTORY:**

ATTACHMENTS: No documentation

