



Inspection Report

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The Washington State Association of Fire Marshals is an organization comprised of seven divisions working on: National Codes, State Codes, Legislative Issues, Professional Development, Communications, Fire Prevention Institute, and Fire Investigation. Membership in the Washington State Association of Fire Marshals is open to individuals in four categories: Governmental, Associate, Educational and Retired. There are many benefits to membership for individuals in all categories.

WSAFM Vision and Mission Statement

Vision

To be a recognized leader and partner in fire prevention and community risk reduction.

Mission Statement

To provide leadership and professional development opportunities for our members and associates through communication, education, legislation and code development.

Exciting News New for 2020

Check your in-box for the 1st edition of the member booklet.
You should have received an email that looked like this:



Welcome to the Washington State
Association of Fire Marshals

Your 2020 membership application has been received and processed.
Attached you will find a copy of the WSAFM membership booklet outlining the benefits of membership.



If you did not receive an email please reach out to WSAFM or Washington Fire Chiefs

WSAFM President's Report – Dave Kokot, P.E.

Let us just say that this year has not gone as expected. We are currently involved in a worldwide crisis, and it is called COVID-19. I am hoping that all of you are keeping safe and healthy. In the past month, I have learned that having good backup is critical should something go wrong. Well, something did go a little sideways, as I was admitted to the hospital for 9 days with an infection in my ankle that quickly spread to other parts of my leg. It basically took me out of the day to day operation of WSAFM. Fortunately, the members of the Executive Committee jumped in and kept us moving. This was at a difficult time, as our code update classes are coming up, and we want to keep the dates working. As many other organizations do, we became flexible and looked at alternatives. Using an online meeting program, we can still offer the Code Updates. The Board itself

had to also become more flexible, as many of us are now working remotely from home, were temporarily assigned to other duties, or even pulled from their position to participate in local Emergency Planning. With all of that, there are still Committee meetings being held, the newsletter is still being done, planning for the upcoming and future FPIs is ongoing, and looking for more educational opportunities for the membership. I may have been sidelined, but the team kept us working, and I would especially like to recognize Tom Maloney, Jon Dunaway, Jon Napier, and Traci Harvey for their extra efforts over the past several weeks.

As for me, I have been through the worst of it, but am still under medical care to heal the wound and to be able to become more mobile. Strange as it is, I would be home whether the COVID-19 crisis occurred or not. My energy levels are starting to get better, so I will be assuming my role as President again to represent us in the best that I can.

Again, WSAFM hopes that you are all safe and healthy during this turbulent time. We will all be glad to have it done and then look ahead.

Code Corner – Traci Harvey, P.E., Spokane Valley Fire Department – SBCC Fire Service Representative

Both the National and the State code processes have wrapped up the last code cycle and are paused, though preparation behind the scenes is always moving towards the next code cycle.

The 2018 Update classes started as scheduled although it took some creative thinking given the Governor's 'Stay Home Stay Safe' order. The instructor Tony Doan took the update classes to the virtual world – way to go Tony. We code geeks need our fix.

Here is a summary some of the current code related happenings and schedules:

Washington State Codes

- *The adoption date for the 2018 Codes has been delayed until November 1st, 2020 by Governor Inslee.*
- *The Washington Codes; being offered by ICC; include our State amendments within the body of the code – no need to print the insert pages.*
- *The State code process will start 60 days after the ICC 2021 codes become available.*

ICC Codes

- The 2021 I-Codes are expected to be made available in August or September.
- The Code Action Committees (CAC) have met and elected Chairs & Vice-Chairs.
- Workgroups have been assigned to CAC's and meetings should begin soon.
 - Due to current events no face-to-face meetings are being planned.
 - CAC conference calls are being set up on a 2-week schedule (2-hrs per meeting).
 - Workgroups will set their own meeting schedule.

2020 SBCC meeting schedule:

- June 12th - Shoreline
- September 11th – Spokane area
- October 9th – DES Building
- November 6th – DES Building

SBCC = State Building Code Council

ICC Codes – Group A

- May 21st – FCAC conference call
- June 1st – deadline for receipt of application for all code committees

- Jan 11th, 2021 – Group A Code Proposal Deadline
- Mar 1st, 2021 – Web posting of proposed changes
- April 11 – 21 2021 – Committee Action Hearing

Interested parties are encouraged to sign up and get involved.

To keep up to date on both the State & National codes be sure to check out their respective websites:

- <https://apps.des.wa.gov/sbcc/default.aspx>
- <https://www.iccsafe.org>

2020 Legislative Update – Robert Bradley, WSAFM Board Member

The 2020 Legislative Session was a short session that ended on time, but it was full of activity that affected the fire service in general and WSAFM. I would like to thank the many Fire Marshals and other Fire Prevention personnel that helped this session. The WSAFM Board Members and Legislative Committee were barraged with emails relating to the various bills affecting fire and life safety. Additionally, our lobbyists, Dylan Doty and Bryan McConaughy were extremely busy helping us in our efforts.

A summary of this session’s major bills and impacts:

HB 1134 – Food Truck Safety: after lots of work by WSAFM members (Angela Barton of Renton and Karen Grove of Seattle) following the 2019 session, this one was not pushed hard by the Food Truck Association in 2020 and died.

HB 2783 – Mobile Fueling: This bill was an example of great collaboration between WSAFM and the group proposing mobile fueling trucks. Kudos to Seattle Fire (Karen Grove) and Puget Sound Fire (Jon Napier) Marshals for taking the lead on this bill. The bill passed and was signed into law.

HB 1023 – Adult Family Home: This bill increases the AFH capacity from six to eight clients. It was a “feel good” bill for representatives which made it difficult to achieve the WSAFM goal of requiring sprinklers outright. We did get language added which requires sprinklers if any of the residents are deemed non-ambulatory by DSHS. The bill passed.

SSB 6464 (HB 2372) – State Building Code Council membership: this bill attempted to change the makeup of the SBCC by allowing the ex-officio Legislative members to become voting members. The bill died.

HB 1754 – Homeless Shelters: This bill allows churches to host homeless shelters and was unanimously supported by the Legislature. WSAFM attempts to get sprinklers installed after five years was not part of the final bill. The bill passed.

SB 6090 – Smoke Detector Installation Liability: The bill limits the civil liability of a fire protection service agency that installs smoke detectors (smoke alarms), carbon monoxide detectors, or combination detectors. Record-keeping is required. Bill passed.

HB 2307 – Fireworks Prohibitions by cities or counties: The bill died.

I am quite sure that the 2021 Legislative Session will be just as busy (and it is a long session)!

2020 Fire Prevention Institute – Tom Maloney

Our lives are very different in these unusual times to say the least but the FPI is still on schedule for October 19-23. We are making the necessary changes to help with your safety in the new normal. Also, there was a decision to remain at Campbell's through at least 2022, as we continue to make changes to facilitate improvements for our attendees.

The topics for the FPI are based on the survey returns from the 2019 FPI. These surveys are very vital to us as we continue to meet your needs for great educational programs.

Topics this year will include report writing, social media and marketing, lessons learned from a MCI, fire inspections, energy storage, fire sprinkler installation, kitchen hood inspections, and relationships to name a few. A full schedule will be coming out with the registration in May.

We would like to announce our keynote speaker Chad Williams. As a former U.S. Navy SEAL Chad draws from his experience in the SEAL Teams to communicate an instructive perspective on teamwork, resilience, leadership and self-motivation.

With the goal of becoming a Navy SEAL Williams entered the world of the military's most difficult training known as BUD/S (Basic Underwater Demolition SEAL training). Out of a class of 173 men that all vowed they would die before ever quitting Chad would be 1 of only 13 that would make it through to graduation day.

Having served his country proudly through multiple deployments on SEAL Teams One and Seven. Today, Chad is a bestselling author and frequent guest on major news networks such as Fox News Channel, Anderson Cooper 360, CNN Newsroom and more.

Chad draws from his military experience to educate others of the Navy SEAL's mindset, providing insight to goal setting, effective leadership, teamwork, overcoming adversity and the ultimate motivation.

We look forward to seeing everyone and are very excited to have some of the best speakers in country coming to Lake Chelan to provide us we quality topics regarding fire prevention, education, and investigations.

Stay Strong and Healthy!

Commercial Kitchens and You – Steve Riggs, WSAFM Board Member

(Part 1 of a 3-part series)

I remember as a child eating at home for every meal, lunches made by mom for school and on special occasions getting to eat hot lunch at school. Today, I can count on one hand how many meals I eat at home in a week. Why is that? My best guess is our way of life! Moving kids from one event to another, our busy work schedules; and in many cases both adults working, spending time volunteering for sports, clubs, schools, church or whatever else we can fit in. By the end of the day who wants to cook!

The restaurant industry has become a billion-dollar industry serving millions of people each year. This can range from the small mom and pop diners to the large corporations and chain food type establishments; to mobile food vendors at special events all looking to make our crazy lives a little easier through readymade food.

Cooking fires in restaurants account for 61% of restaurant fires. Of that, 3 out of 5 cooking fires result in property damage. Deep fat fryers account for 21% of all kitchen fires with range tops next at 14%. 21% of the time the fire cause is failure to clean the appliance line, hood or duct system. More than 73% of the time when a restaurant has a kitchen fire that is not controlled by the extinguishing system, that restaurant will not recover.



This 3-part series is meant to help the AHJ understand the complexities of the systems, who can install, service and repair them and what to look for during plan reviews and inspections.

Part -1 “The System”: A commercial kitchen is comprised of three main working pieces: mechanical, cooking media and fire suppression. The mechanical starts with the proper type and size of hood. A Type I hood for cooking media that creates grease laden vapors or the Type II for appliances that create steam or heat, but not grease. The hood includes a duct system that exhausts particulates to the exterior of the building. This is accomplished with an exhaust fan rated for the cubic feet of the hood. Mechanical make-up air that replaces the air being removed by the hood exhaust. The mechanical requirements for the most part come from the International Mechanical Code and NFPA 96.

There are many different types of cooking media from griddles, fryers with or without drip boards, ranges from the stock pot style (single burner) to 12 and 14 burners for one appliance, cheese melters, salamanders, chain driven pizza ovens and my favorite, the WOK. These appliances are all grease producing and are required to be under a Type I hood with fire suppression.

There are 11 system manufacturers to choose from, ANSUL, Range Guard, Amerex, Kidde, Badger, Pyro-Chem, Kitchen Knight II, Monarch Buckey and Piranaha. All of which have their own requirements for installation and maintenance. All the systems are required to be UL300 compliant when installed per the manufacturer requirements.

What is UL300: It is a testing process focusing on the extinguishment of flammable liquids, specifically vegetable oils. The components and extinguishing agent must extinguish a fire completely and not permit re-ignition of the grease for 20 minutes for all cooking media except fryers, woks or until the grease temperature decreases to 60 degrees F (34 degrees C)

A large component of the UL300 listing is the parts and pieces of the fire suppression system. Systems are required to have both manual and automatic activation. The requirement for the manual activation device location is specifically listed in the IFC 904.12.1. The automatic activation (fusible links) are manufacturer and NFPA specific. The cooking media must be protected by the correct nozzle(s). The correct nozzle must be installed within the parameters of the listing; all extinguishing systems have piping requirements that include pipe lengths, pipe diameter and type. The

maximum number of elbows and tees are also system specific. The mechanical portion of the kitchen hood system such as exhaust, make-up air, shunts for gas and electrical is not a part of UL300 listing but is an integral part of the overall system and its function.

Who can install a fire suppression system? Per the manufacturer, only factory trained personnel can install fire suppression systems. The certifications issued are only good for three years and are **NOT** transferable from company to company. This creates a challenge for AHJ's. How do we determine who is certified? First reach out to the manufacturer. They have active lists on the companies and personnel that are currently certified for their product. Second, there is a current list of certified companies maintained by Fire Marshal Kelly Blaine with the City of Burlington: kblaine@burlingtonwa.gov.

Maintenance and repair of systems can be challenging. However, after meeting with most manufacturers a couple of key points were made. First, the manufacturers will not support their product if it was not installed or maintained by a factory certified company. This is very important if there is a fire. Secondly, most manufacturers will not allow third party parts to be installed. The only way to get approved parts for the various extinguishing systems is to be a certified distributor for the manufacturer.

AHJ's should look at who is installing and maintaining systems within their jurisdiction. Where non factory certified companies are installing or maintaining it is recommended that AHJ's check with their legal department to see what liability is being accepted by not following the manufacturer requirements.

Third party record keeping: In the past most AHJ's managed service records through hard copies randomly submitted by service companies. In recent years, cloud-based record management has become a major player in the fire service and record keeping. Multiple companies are now available for record management. These companies, each a little different, provide a platform for service records to be uploaded into the AHJ's profile where they can be reviewed, commented on and returned for further action. Overall AHJ's can use this tool to hold service companies accountable for the work and craftsmanship. If your organization is not currently using a records system for life safety systems, it is worth looking into.

What is next: Part 2 of the series will be plan review aspects for commercial kitchen systems. We will look at what should be on the plans, system layout, shunts and submitted data sheets.

WPFE News – Ben Scherer

2020 started on such an amazing note for Community Risk Reduction. January brought the first-ever CRR Week! Many towns and even the state proclaimed January 19th-24th as CRR Week. Designed to bring awareness to all the parts that make a Community Risk Reduction model. Each day, a different E was highlighted on fire department's social media, and some even managed to do events based around the E of the day. Firefighters and citizens gained insight about all the teamwork, planning, and programs that go into keeping a community safe. Some departments and organizations were starting to catch on. They started asking more questions about the what, and the how, that go into doing a Community Risk Analysis.

February was another highlight, with the Bi-annual Vision 2020 symposium. CRR staff from all over the country convened on Tennessee to hear about CRR programs that were bringing together outside partners and sometimes creative resources, to not just educate but reduce community risks! It should also be mentioned that Washington State

had one of the largest delegations at the symposium!

And then March... In the past, departments may have furloughed the educators and fire prevention staff. After all, there are no schools, a lot of businesses are closed, and the only risk anyone wants to hear about is COVID-19! But now these educators and fire prevention staff from Washington went to work and put all that networking into place. Some were working from home, helping with their department's COOP plans. Some went to work assisting Emergency Operations Centers to help with this new community risk. Some continued to work on their regular programs. They understood that with all these people at home, the potential for kitchen fires was going to increase.

Some say that CRR is just a new term for education. But take a moment with me and look at the way the country is handling this pandemic and see how CRR modeling has become the way to deal with community risks. I will start with EDUCATION. The "wash your hands/don't touch your face" message can be seen or heard in every community. ENFORCEMENT is the closing of restaurants and hair salons. ECONOMIC INCENTIVES in the form of stimulus checks and unemployment benefits. Of course, EMERGENCY RESPONSE is always there. While many have changed their response models, the community understands the need to ensure those assets are protected. Which takes us to the last E. ENGINEERING. While some may disagree with me on this one, Engineering is the science of changing something; in our case, to be safer. By asking people to stay home as much as possible, in effect, we have changed public areas to reduce the risk of catching or passing on the virus.

When life gets back to the new normal, what is your EVALUATION going to say about how your jurisdiction handled this event? Where you ready for it? Had you even considered a pandemic in your risk analysis? If not, do not despair. You are not the only one. The question is, do you pick up your Community Risk Analysis and rework it? Or do you decide that it was a once in a lifetime event and go back to "the way we have always done it"?

If you are not familiar with Community Risk Reduction, the National Fire Academy just came out with a free online class that is self-paced. <https://apps.usfa.fema.gov/nfacourses/catalog/details/10802> I encourage everyone to check it out as well as other CRR resources found at www.strategicfire.org

Upcoming Trainings:

2018 IFC Code Update Classes

EVENT FEE*: Members \$125 / Non-Members \$175* (includes lunch)

**includes Membership*

DETAILS:

Stay up to date with the latest changes to the Fire Code! As most of you are aware, the 2018 International Fire Code goes into effect July 1st, 2020 in the State of Washington. This one-day course will cover code changes from the 2015 to the 2018 edition of the International Fire Code. In addition, a review of the latest Washington State amendments to the Fire Code will be covered. This course is being offered online! 0.65 ICC Preferred Provider CEU's will be awarded to those attending! Lunch and some snacks will be provided. The classes will normally run from 9am thru 4pm. To register – go to wsafm.com and select the date you want under **Upcoming Events**.

Marysville – May 13, 2020 | Vancouver / Clark County – May 20, 2020 | Renton – May 27, 2020

Resources

There are many resources available at little to no cost to AHJs as well as to the public.

ICC has the current (and some historical) codes available online. There are limitations to what you can do with the codes, but they serve as a suitable location for reference. These are located at:

<https://codes.iccsafe.org/public/collections/I-Codes>

In addition, the State Building Code Council provides printable insert pages for the ICC Codes of the Washington State Amendments. These can be located at:

<https://fortress.wa.gov/ga/apps/sbcc/Page.aspx?nid=14>

Do you have a question on the code, or just want to be sure you have a consistent interpretation? We will be providing contacts of several members who participate in the National and State development of the Codes who can provide the information you need to make an informed code decision.