

Emergency Preparedness: Amateur Radio Interface with Governmental Emergency Response Agencies

Frank Sebastian, K7FNS

Emergency Management Group -- Washington March 11, 2021





Preface

Emergencies come in all sizes and scope; clear and concise communications, both within the public safety community and externally with the citizens, is a critical function. Amateur Radio operators extend this capably and provide a resource to the incident command or emergency manager. The Federal Communications Commission (FCC) has authorized emergency management organizations to officially organize and employ radio amateurs to supplement state and local government communications systems during emergencies or disaster operations. The FCC advocates the principle that a fundamental basis and purpose of the is to provide voluntary noncommercial emergency communications to the public. Amateur radio operators are often needed to assist in communications during an planned or spontaneous emergency incident. This presentation will examine basic steps to integrate amateur radio operators in the emergency incident operations and special events.



EMG-WA Events

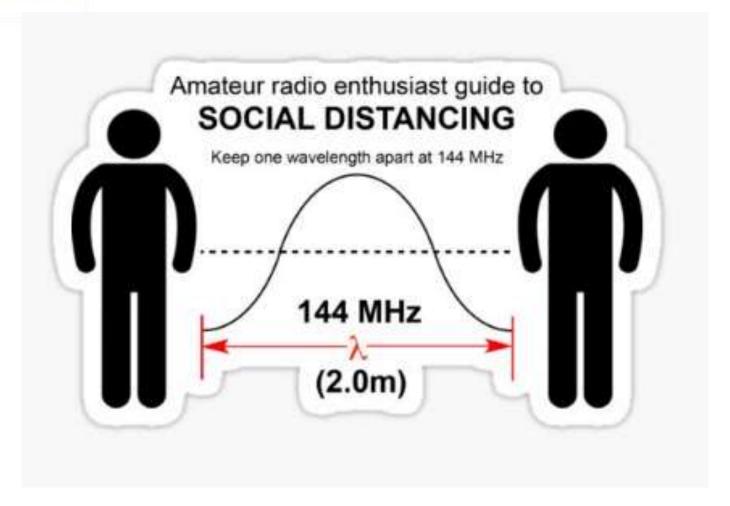
- Seafair major events July 4th, Torchlight, Hydros, Airshow
- Special Olympics Washington
- 2018 Special Olympics USA Games
- Seahawk Victory Parade
- Sounders MLS cup X2
- SR99 Tunnel Viaduct Opening Event
- WA7EMG ARC
- EMGWA ARES
- www.EMGWA.org



Tonight

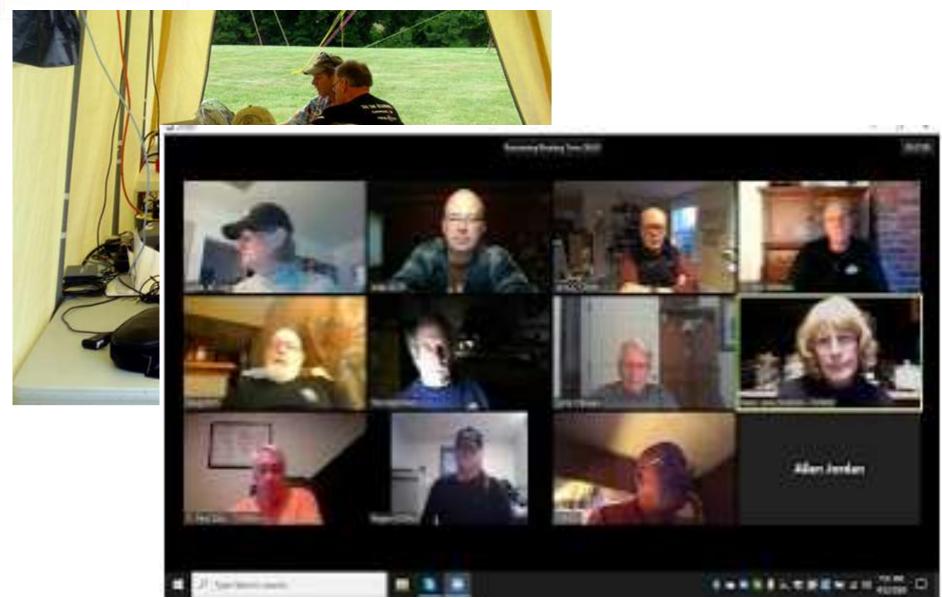
- SARS-CoV-2 (COVID 19) Where we are and future
- ARS: Augment emergency communications
- Special Event industry status and resumption
- Amateur Radio at Special Events
- Security Awareness for mass-gatherings
- New roles for ARS at Events





https://www.redbubble.com/i/sticker/Amateur-radio-Social-Distancing-by-Feek/46242603.EJUG5

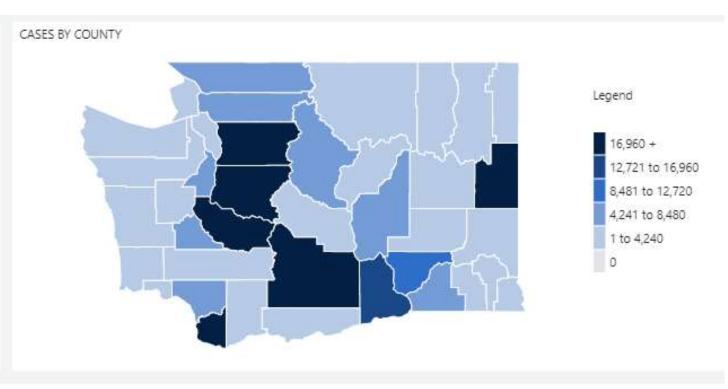




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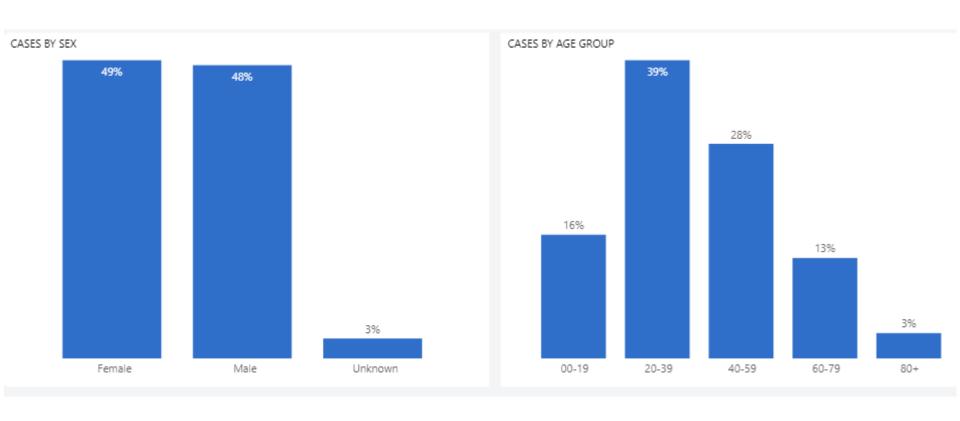


Confirmed Cases	324,469
Probable Cases	19,399
Total Cases	343,868
Hospitalizations	19,556
Deaths	5,041
Percent of Deaths (deaths/total cases)	1.5%
Total Molecular Tests	5,369,716
Number of Vaccine Doses Given	1,865,640



Data as of 03/06/2021 WA Dept. of Health

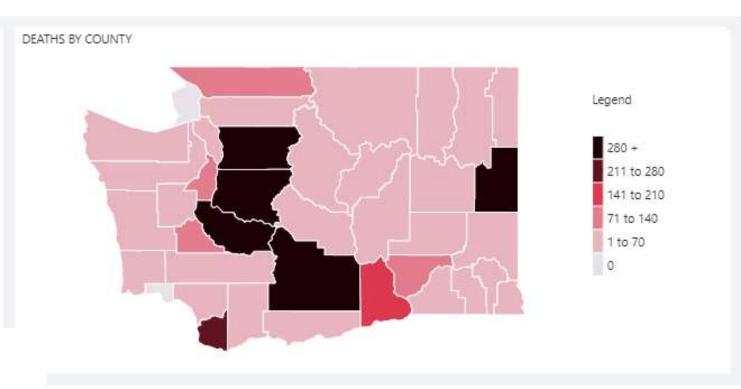




Data as of 03/06/2021 WA Dept. of Health

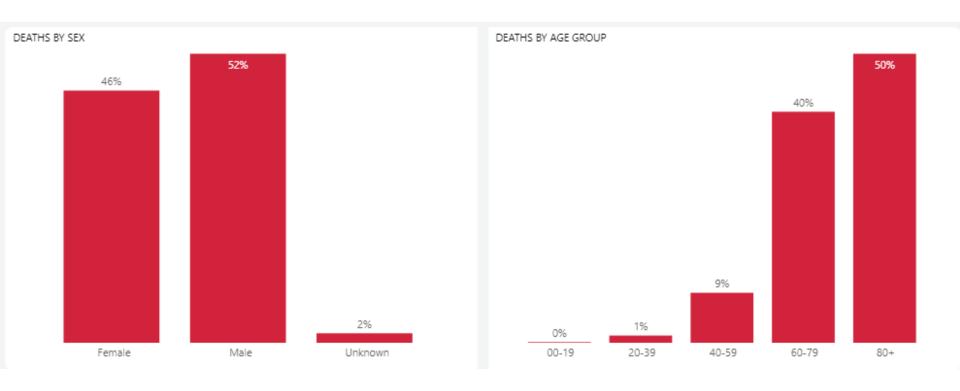


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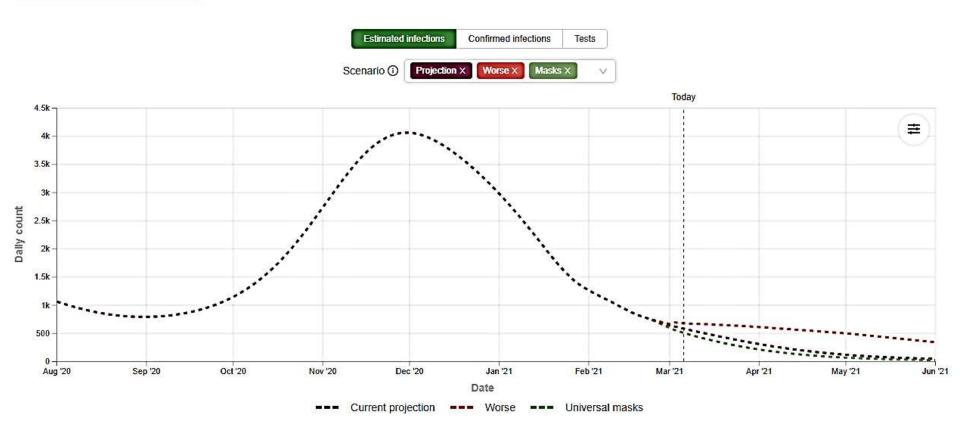
Data as of 03/05/2021 WA Dept. of Health





Data as of 03/052021 WA Dept. of Health





Data as of 03/05/2021 Institute for Health Metrics and Evaluation



WASHINGTON'S COVID-19 VACCINE PHASES

Phase 1 Estimated Start Dates (Tiers A and B) Find out if it's your turn at FindYourPhaseWA.org



DECECEMBER 2020 - PRESENT 2021

- High-risk health care workers in health care settings
- High-risk first responders
- Long-term care facility residents
- All other workers at risk in health care settings

- All people 65 years or older
- All people 50 years or older in multigenerational households (home where individuals from 2 or more generations reside such as an elder and a grandchild)
- Educators and staff for pre-K through 12th grade
- · Child care providers

EST. MARCH 22

- High-risk critical workers who work in certain congregate settings: Agriculture; fishing vessel crews; food processing; grocery stores; corrections; prisons, jails or detention centers; public transit; remaining first responders
- People 16 years or older who are pregnant or have a disability that puts them at high risk for severe COVID-19 illness.

EST. APRIL 12

 People 50 years or older with 2 or more co-morbidities or underlying conditions

EST. APRIL 26

 People 16 years or older with 2 or more co-morbidities or underlying conditions

EST. APRIL 26

 People, staff, and volunteers in congregate living settings: Correctional facilities; group homes for people with disabilities; people experiencing homelessness that live in or access services in congregate settings

SPRING / SUMMER

 Information on who is eligible for Phases 2, 3 & 4 coming soon.



Use of Amateur Radio Operators to Augment Emergency Communications: Amateur Radio Operator Points of Contact (POCs)

Establish POCs with major ARS organizations capable to support emergency communications

Radio Amateur Civil Emergency Services (RACES)

When establishing a RACES unit, FEMA regulations require that the director or a designated representative of the state or local EMA or emergency operations center (EOC) appoint, in writing, a RACES officer.

RELATED TERMS

- HAM Radio
 Auxiliary
 Communications
- RACES
 ARES



PRIMARY DISCIPLINES

 Emergency Communications
 Emergency Management

BEST PRACTICE

Use of Amateur Radio Operators to Augment Emergency Communications: Amateur Radio Operator Points of Contact (POCs)

PURPOS

Emergency management agencies seeking to integrate amateur radio operators into emergency management communications should establish PCs with the major amateur radio organizations that can support emergency communications.

UMMARY

Emergency management agencies should establish relationships with existing amateur radio organizations through a designated POC. These amateur radio organizations can assist agencies during emergencies by providing auxiliary communications capabilities to local

DESCRIPTION

In order to successfully integrate amateur radio organizations into an emergency communications structure, emergency managers need to identify and establish a relationship with an experienced amateur radio operator in their area to serve as a POC. Emergency managers should seek out POCs from one of the major amateur radio organizations that specialize in emergency communications.

Radio Amateur Civil Emergency Services (BACES) is a volunteer organization of licensed amateur radio operators who provide communications to state and local government apendes during emergencies. RACES untils are organized and administrated at the state and local levels by civil defense or emergency management apencies and serve as official auxiliary communications systems for their supervisory government apencies and serve all Emergency Management Agency (FEMA) provides planning and technical assistance to state and local apencies to establish and integrate RACES units into communications protocols. Federal Communications Commission (FCC) regulations outline the specific operational and technical details for RACES communications.

A state or local emergency management agency (EMA), can organize its own PACES unit from the bottom up, can develop a non-governmental ameteur radio operator unit (e.g. ARES units) into a RACES unit, or can integrate existing PACES units into an emergency management communications system. To develop a non-governmental radio operator unit into a PACES unit or to incorporate an existing PACES unit, the state or local EMA should reach the POC from the nearest local or state amateur.

When establishing a RACES unit, FEMA regulations require that the director or a designated representative of the state or local EMA or emergency operations center (EOC) appoint, in writing, a RACES officer.

- The responsibilities of the RACES Officer are:

 To serve as a liaison between the RACES unit and the EMA/EOC; and
- To recruit other amateur radio operators int the RACES unit.



Use of Amateur Radio Operators to Augment Emergency Communications: Amateur Radio Operator Points of Contact (POCs)

Establish POCs with major ARS organizations capable to support emergency communications

Amateur Radio Emergency Services (ARES) is a group of FCClicensed amateur radio operators who volunteer their services and equipment to public or private agencies during emergencies. ARES units can perform similar emergency communications functions a sRACES units, but ARES units are not governed by the FCC's technical RACES guidelines or FEMA's operational RACES guidelines.

ARES units operate under the auspices of the American Radio Relay League (ARRL), a national, not-for-profit organization. The ARRL is a recognized affiliate program with the Department of Homeland Security's Citizen Corps initiative and is a member of the National Voluntary Organizations Active in Disasters (NVOAD).

BELATED TERMS

- Lessons Learned Auxiliary
 Communication
- * RACES · ARES



PRIMARY DISCIPLINES Communications Emergency

Management

BEST PRACTICE

Use of Amateur Radio Operators to Augment Emergency Communications: Amateur Radio Operator Points of Contact (POCs)

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CEMP and ARS Operators



- •Be registered emergency/disaster workers under state law;
- Possess certificates for (sometimes many) FEMA training classes;
- •Have passed law enforcement background checks; and
- •May be engaged in other volunteer activities such as Search and Rescue (SAR) or Community Emergency Response Teams (CERT).



ARS Opportunities to Service in EM

- Large-scale incidents with disruption of "normal" communications
- Emergency Operations Center (EOC) support
- Exercise execution FTX, Full-scale, Functional
- Special Events Runs, Sports, Fairs, Parades, Airshow, Races, Concerts
- Staff Augmentation
- NGO/FBO Support
- Situational Observers
- Crowd Observers
- EOC Training



ARS Opportunities to Service in EM

- Create communications links between similar agencies across political boundaries, especially where there are misalignments in frequency bands and modes;
- Create communications links between public service agencies and private sector stakeholders;
- Establish communications in locations outside the existing or operational coverage areas of public service and commercial communications systems;
- "Shadow" critical public officials and emergency management personnel to facilitate constant and rapid contact;
- Monitor crucial infrastructure (such as highways and bridges) and provide situation reports; and
- Staff observation posts (river levels, flooding, damaged areas) and provide situation reports



Disaster

- a sudden calamitous event bringing great damage, loss, or destruction
- a sudden or great misfortune or failure







City of Kirkland COVID-19 EVENT SAFETY PLAN GUIDE for OUTDOOR EVENTS

Pursuant to the Governor's order to allow public gatherings in Washington State, City of Kirkland Special Event Permit Applications will be considered for events that are able to meet all guidelines set forth by Washington State's reopening guidance. The City of Kirkland's ("City's") requirements will meet state and public health guidelines.

If Washington State or King County changes the guidance for events or reopening phase status for the County as a whole, Special Event Permits may be suspended.

According to Washington "Safe Start" Plan requirements, each business, entity or individual ("applicant" or "event organizer") must develop a written Safety Plan outlining how its workplace (i.e. event site/venue) will help prevent the spread of COVID-19 on a basis that is at least as protective as the requirements from the Department of Labor & Industry (L&I) and state and public health guidelines. This plan must be submitted with the Special Event Permit Application, must be retained on the premises of the event, and must be made available to the Washington State regulatory agencies or local health or safety authorities in the event of an inspection or other request. Applicants will be required to follow the state's industry specific guidance, once provided.

8.3	BAUKSI	MATERIAL	1712	LAMMING
Bet	fore you	oegin d	rafting y	our written
You	u are req	uired to	adhere	to Washine

plan, you are required to review the established guidelines below

	Review the following established guidance:		
ESTABLISHED	Washington State COVID-19 Reppening Guidance for Businesses and Workets L8i General Requirements and Prevention Ideas for Workplaces (https://ini.wa.cov/forms-publications/F414-164-000.pdf)		
GUIDANCE	Washington State Department of Health Workplace and Employer Resources & Recommendations [https://www.doh.wa.gov/Coronavirus/workplace]		
	 Public Health – Seattle & King County COVID-19 Resources (https://www.kingcounty.gov/depts/health/covid-19.aspx) 		
L&I and Public Health REQUIREMENTS	Event Organizers must adhere to L&I and public health COVID-19 requirement to protect workers and volunteers, including: Write a COVID-19 Safety Plan that outlines procedures for operations the		

CDVID-19 Event Safety Plan Guide for Outdoor Events Created October 2000

comply with all safety and health requirements per the guidance above.



City of Seattle SPECIAL EVENT PUBLIC SAFETY & EVENT MANAGEMENT PLAN

Return To:

Seattle Special Events Office Chris Swenson, Special Events Committee Chair PO Box 94708, Seattle, WA, 98124-4708

specialeventsoffice@seattle.gov

Office Use Only

Phone: 206-733-9245 Fax: 206-684-7025

This template has been produced to aid event organizers in planning safe and exciting events with 1,000 or more attendees. This document, along with the Special Event Application, are reviewed by the Seattle Special Event Committee to ensure that all safety aspects have been met.

If any section duplicates information provided in the Special Event Application submitted for your event, please refer to that information in the applicable section. Please attach supporting documents and addendums as needed for each section. Please note that not all parts of the template may be relevant for every event.

Once reviewed by the Special Events Committee, conditions and requirements will be set by the Seattle Fire Marshal, Seattle Police Department, and Special Events Office and shared with you. Thank you for hosting your event in Seattle!

1. EVENT OVERVIEW		
EVENT NAME		
EVENT DATE		
AUDIENCE	The event's audience profile is essential when planning for risks and ensuring that appropriate control measures and facilities are in place for the event. Include previous history, entertainment type, and ticket sales to help in indicating the audience profile.	



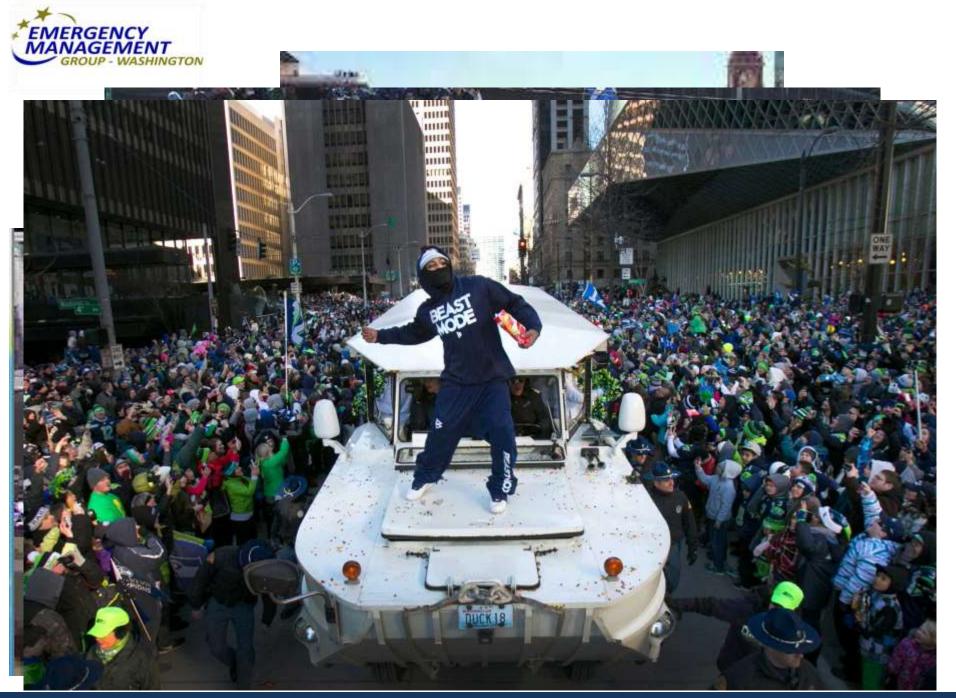
Special Event

A special event can be defined as any event where a large number of people are brought together to watch or participate. Some other characteristics of special events may include:

- Food services
- Alcohol services or illegal consumption
- Involvement of promoters or entrepreneurs
- Using temporary stands
- Setting off fireworks
- Use of temporary structures and wiring
- Impact on traffic flows or road closures
- Potentially creating dangers for spectators
- Use of volunteers to carry out the event



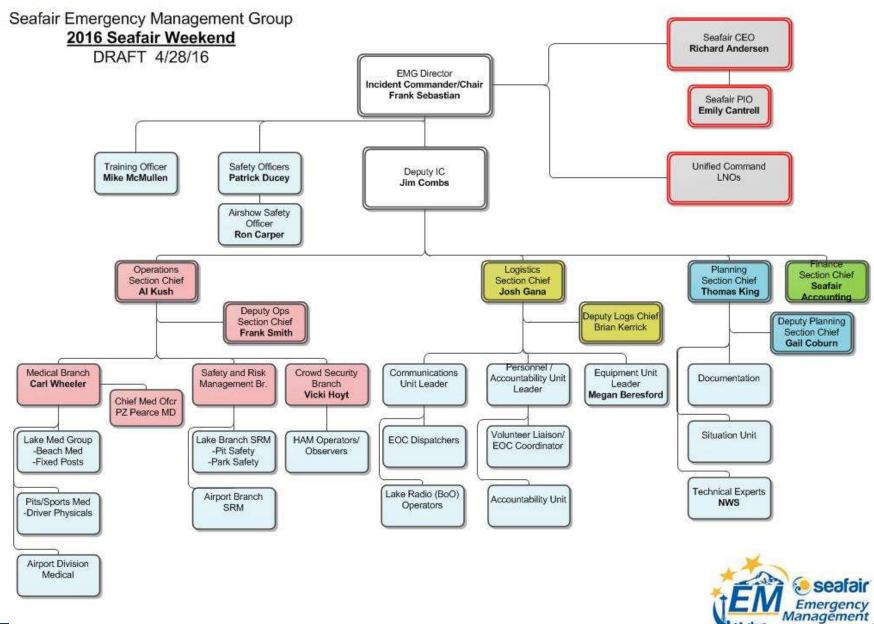
Examples of special events include summer festivals and concerts, races, running events, airshows, national celebrations, sporting competitions, exhibitions, tractor pulls and demolition derbies.



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Organizational Structure





Seafair EMG Functional Areas

- Provisioning and staffing of Seafair Emergency Operations Center
- Training support for staff, event families, committees
- Communications infrastructure
- Emergency incident overhead team
- Crisis management team
- Accountability
- Geospatial mapping

Westlake Holiday Tree Lighting

November 27, 2015

Operational Period: 12:00 - 20:00 Local Time Seafair Emergency Management Group (SEMG)

EVENT/INCIDENT ACTION PLAN (IAP) Final









Frank Sebastian – SEMG incident Commander Thomas King – Planning Section Chief Gail Coburn – Deputy Planning Section Chief

This document, in entiring, contains confidential information intended only for those persons authorized to receive such durinest. Growing in entitle intended enoughest, contact. Thomas ting Planning Section (thef. Section 8MG at: 503-704-1900 or mail for planning Bendamment.)

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Organizational Structure

What Is Unified Command?

In incidents involving multiple jurisdictions, a single jurisdiction with multiagency involvement, or multiple jurisdictions with multiagency involvement, Unified Command allows agencies with different legal, geographic, and functional authorities and responsibilities to work together effectively without affecting individual agency authority, responsibility, or accountability.







Recommended ICS Courses for Special Events

- IS 100
- IS 200
- IS 700
- IS 15b



Available at training.fema.gov/nims/



CONFIDENTIAL – DO NOT DISTRIBUTE

The Seahawks Welcome Home Celebration

2015

(Aka: "The Victory Parade")



Seafair Emergency Management Group

EVENT/INCIDENT ACTION PLAN (IAP)

Event Date: 04 February 2015

Sheila Betts, Deputy Planning Section Chief – SEMG Thomas King, Planning Section Chief - SEMG

. Incident Sea haw k

ICS Form 2





Security Awareness

- See something; say something
- Safety is everyone's responsibility
- Know your location at all times
- Know how to report incidents

Seafair EOC 206-934-1075











FEDERAL BUREAU OF INVESTIGATION

SEATTLE DIVISION, INLAND JTTF, SPOKANE RESIDENT AGENCY

REQUEST FOR PUBLIC ASSISTANCE

THE FBI IS OFFERING A \$20,000 REWARD FOR INFORMATION LEADING TO THE ARREST AND CONVICTION OF INDIVIDUAL(S) RESPONSIBLE FOR PLACING A DESTRUCTIVE DEVICE IN SPOKANE, WASHINGTON ON MONDAY, JANUARY 17, 2011

On March 9, 2011 the FBI arrested Kevin William Harpham, 36, of Addy, Washington. On December 20, 2011 he was sentenced to 32 years in prison for the attempted bombing.



26 months later...



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What is Terrorism?

"The unlawful use of force or violence against persons or property to intimidate or coerce a government, the civilian population, or any segment thereof, in furtherance of political or social objectives."

Federal Bureau of Investigation (FBI)



8 Pre-Attack Indicators of Terrorism

- 1. Financing Activities
- 2. Surveillance
- 3. Active Elicitation
- 4. Probing Security
- 5. Acquiring Supplies
- 6. Impersonation
- 7. Rehearsal
- 8. Deploying Assets





How to get radio involved:

- Gain acceptance of event sponsors & incident commandres, and emergency managers
- Gain acceptance of police, fire, and emergency management
- Event sponsors, police and fire officials are cautious and skeptical of those who are not part of their profession
- They do not perceive the value in the level of discipline and expertise of amateur radio, as a resource
- Establish a track record of performance
- Demonstrate with examples
- Know your role; Don't exceed





How to get radio involved:

- Convince organizer or responsible official amateur radio offers a cost-effective substitute for paid (too expensive) function.
- Demonstrate reliability and clarity of amateur equipment.
- Offer how you can be of needed and valuable assistance.
- Demonstrate ability to be force multiplier in emergency situations.
- Demonstrate how easily amateurs and their equipment can interface into event and public safety efforts.
- Be realistic and objective on what you can do.
- Keep promises and competence.



How to get radio involved:

- Event organizers must want you there.
- Event organizers and operators must agree in advance on Amateurs role in the operation.
- Operations must be planned and organized.
- Determine what the event's needs are and how you can provide.
- Set objectives and tactics.
- Follow the guidance for agreed objectives and tactics.
- Stay "in your lane"





Your role:

- All event officials need to have a clear and absolute understanding of the roles of amateur radio operators. Be clear on what you can and cannot do. Amateurs are trained communicators, not crowd control, traffic control, medical providers, parking lot attendants.
- Have an operational plan. Know you role in the plan.
- Have appropriate event credentials, issued by event official.
- Do not abuse your credential no assumed privileges.
- Be prepared!!!
- Don't do anything your are not competent or authorized to do.



Your Assignment:

- Shadow/adjunct of officials
- Crowd observer
- Public Health Monitor
- Timer/spotter
- Safety observer
- ComT/ComL
- Net control
- EOC operator
- Forward Observer
- Logistics





Equipment:

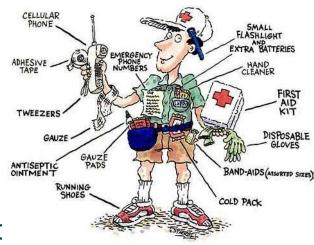
- Bring portable or mobile, as directed.
- Know frequencies used and how to program radio.
- Know "net" protocol in place.
- Follow "net" protocol.
- Don't program or use non-ham frequencies unless authorized.
- Bring the "right" equipment.
- Have spare batteries.
- Use ear-piece.
- Use tactical calls.
- APRS if authorized.





Personal Preparation:

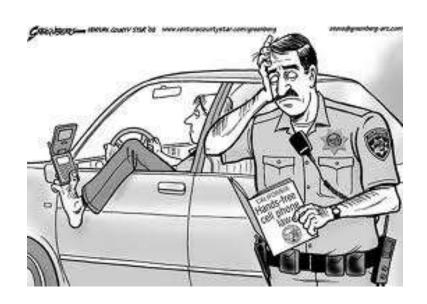
- Physical capacity to complete assignment
- Proper clothing for expected environment
- Stay hydrated
- Rest breaks
- Know who your supervisor is and how to co
- Ask for assistance early
- ICE on cell phone.
- Use only event authorized apparel or branding
- Maintain operational security social media
- Stay safe!





Is it Legal?

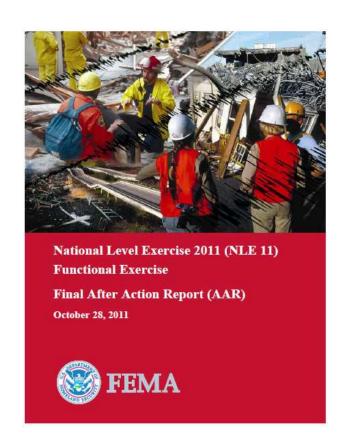
- Yes!
- Do not accept payment donation to club is OK
- Use assigned call in addition to tactical call
- Do not rebroadcast public programing
- Do not rebroadcast any non-amateur signals
- Protect PII
- Follow traffic and event rules





After the Event

- Maintain log
- Share your experience with organizer
- Make positive suggestions
- Offer solutions
- Recruit for next event





New Role: SARS-CoV-2 Officer



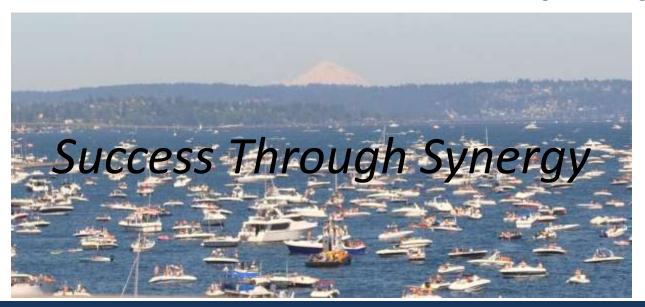
Photo credit – 2021 Ryan McCormick



Final Thoughts

"Final thoughts are so, you know, final. Let's call them closing words."

-Craig Armstrong



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Contact:

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EMG-WA EOC 253-666-8340



