

# 2024 NDC Conference:

Advancing Naval Damage Control

Presented By  
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The Need for  
**SECURE**  
Hazardous  
and  
Flammable  
Storage







**EVERY MARINE A RIFLEMAN,  
EVERY SAILOR A FIREFIGHTER.**





The **morning** of **July 12, 2020**

Sunday 08:00 **smoke** was reported on

the **USS Bonhome Richard**

- Nearly completed \$249 million dollar 1.5 year Avail
- Fed Fire and SD Fire department arrived approx two hours after the fire had started
- Helicopters and tugs fought the fire four days later, the 1.2 billion dollar ship was lost



Tragedy is a  
**tool** for the  
living **to gain**  
**wisdom.**

-Robert F Kennedy





**"Keep  
them fit to  
fight"**



**NAVSEA mission statement**

**NAVSEA**

**NAVAL SEA SYSTEMS COMMAND**





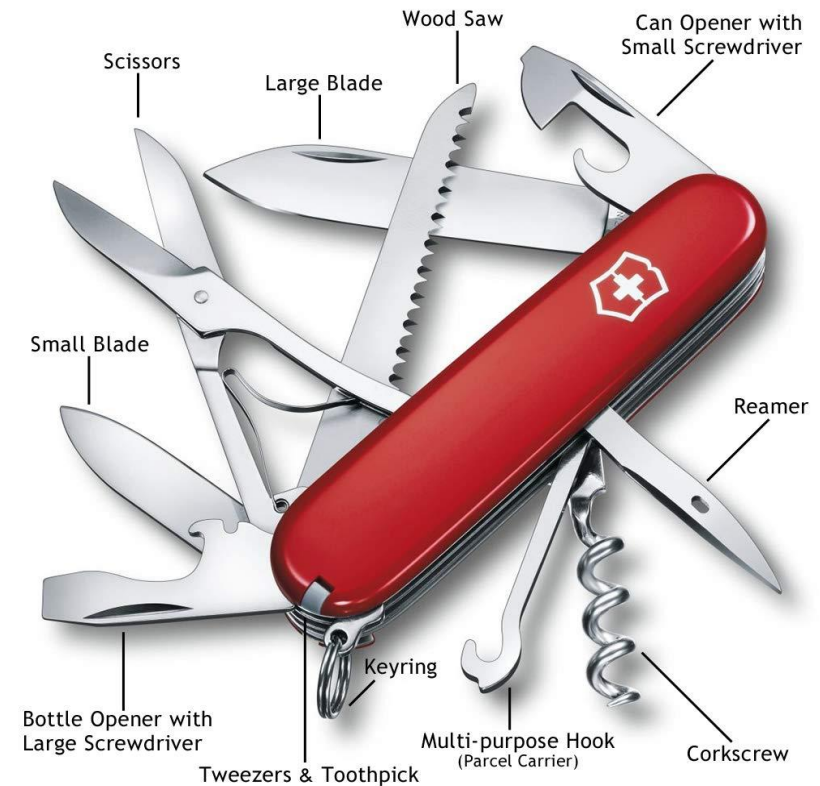
# DAMAGE CONTROL CONTAINER





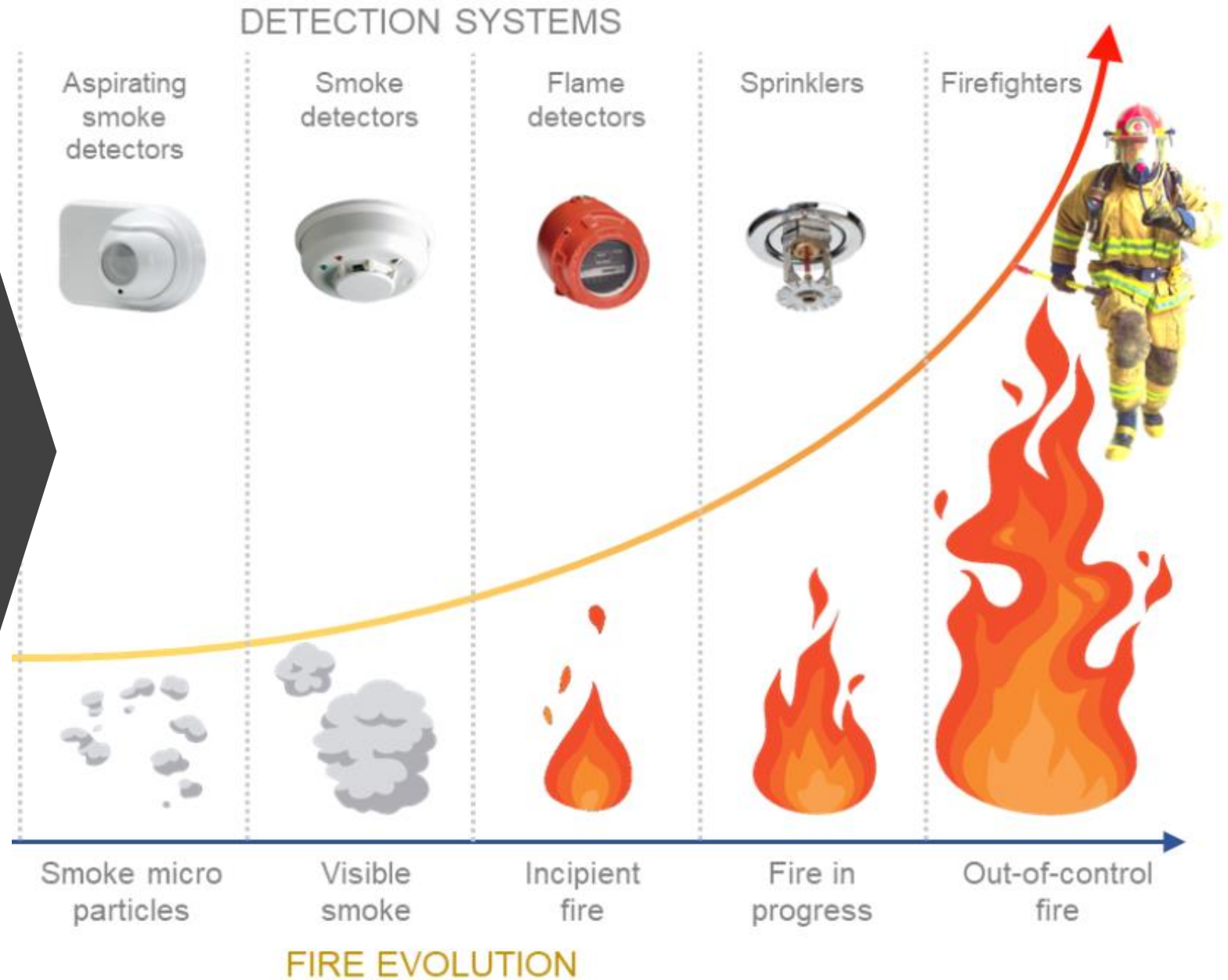
Every **thing** a place  
and **every** place a  
**thing**. -Soichiro Honda

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**"THE  
CRITICAL  
GAP"**







**STANDING ON  
THE SHOULDERS  
OF GIANTS**





# DAMAGE CONTROL CONTAINER SPECIFICATIONS

- Meets all NFPA Standards
- Capable of Housing (18) Personnel Gear
- 25,000 BTU Air Conditioning, Heating and Dehumidification for Safe Gear Storage
- Secondary Rear Egress to allow quick personnel outfitting
- Convenient 240volt / 60amp Electrical Connection. Single or 3 phase available
- Main Entry Door with easy open oversized single door handle for easy open/close
- Additional Electrical Outlets in each locker for individual equipment charging such as Radio, Flashlight or Tool Charging





# DAMAGE CONTROL CONTAINER SPECIFICATIONS

- 2-part Epoxy Industrial Floor
- Energy Efficient LED lighting
- Marine Resistant Galvanized Steel Interior Shelving with 1/2 inch lip for secure Gear Storage at Sea or at Port
- Scuff-proof SCBA Bottle Storage for up to (20) 30 or 45 minute bottles
- 6-foot Industrial Work Bench with 110volt outlets for all your charging needs
- RacPac Utility Wall Board for equipment organization and quick access







# APRIL 2023 USS SAMPSON

INITIAL TRIALS



**JULY 20, 2024**

**NAVSEA SWRMC APPROVAL**









**DAMAGE  
CONTROL  
IS  
PREVENTION  
& RESPONSE**













# Hazardous Storage Containers







## REAL WORLD SCENARIO

- Nov 9, 2018 BHR avail received 9 Hazardous Materials Containers
- Nearly at the end of 2.5 year avail the units were close to max cap
- 50ft from the ship
- No fire was spread to the pier or Naval Facility
- Investigations found they operated above performance standards
- Job well done garnered the attention of NAVSEA



**OCT 16, 2024**

**NAVSEA SWRMC APPROVAL**





# DEMAND IN THE PUBLIC SECTOR

- SPACE X
- GULFSTREAM AERO
- BECHTEL
- THERMO FISCHER
- SOLVAY
- TESLA
- LUCID
- NAVISTAR
- INTERNATIONAL







# WEST TEXAS MANUFACTURING FACILITY



# THE ELECTRIC FUTURE

- Risks of battery power
- Steep learning curve
- Safety systems are still in their infancy
- Traditional prevention and response are not yet effective
- Battery driven damage control incidents are growing by the year





# IN THE PAST YEAR TWO MAJOR LITHIUM BATTERY PLANT **FIRES** IN SAN DIEGO

- **Escondido** Sep 5, 2024 Containerized Storage
  - burned for 48 hours
  - Estimated 8 million gallons of water
- **Otay Mesa May** 19, 2024 Warehouse
  - burned for 13 days
  - Estimated 20 million gallons of water



“We see **fires** involving **lithium-ion batteries** approximately *three times a week* in the city of San Diego alone”  
-San Diego Fire-Rescue Battalion Chief Rob Rezende





# HAZARDOUS STORAGE **CONTAINERS** CURRENTLY IN THE EV INDUSTRY





**Thank you for your time.**  
Come see us at booth 10



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**AHR**  
AMERICAN HAZMAT RENTALS