

THE USS BONHOMME RICHARD



BACKGROUND

On Sunday, July 12, 2020, a fire broke out onboard the USS Bonhomme Richard (LHD 6) (BHR) in the lower vehicle storage compartment. The fire burned for five days, spread to 11 of 14 decks, and reached temperatures in excess of 1,400 degrees Fahrenheit. The fire resulted in more than \$3B dollars in damage and a later decision to decommission what would have been one of the US Navy's most combat-capable amphibious assault ships.

APPLYING NIMBLE™

If the Navy had NIMBLE™ they would have had improved real-time crisis information delivered via a sensor-base common operating picture and the ability to quickly detect, assess, and respond with the assistance of a digital twin. NIMBLE™ would have run collected data through its orchestration platform where an AI-engine would have rapidly assessed multiple causes and outcomes to assist the ship's force determine the best action to take. NIMBLE would have helped efficiently direct response and resulted in the fire being put out in 35 minutes.



End to End Enterprise Solutions Inc. provides innovative solutions to today's cybersecurity and crisis management challenges.

- ✓ SBA 8(a) Certified
- ✓ Small Disadvantaged Business
- ✓ Minority Owned
- ✓ Service-disabled Veteran Owned

CAGE: 6Q9Y9 | UEID: CT49EMG48HQ7
NAICS codes: 541519, 541511, 541512, 541513, 541611, 541614, 541618, 541990, 811212

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USS BONHOMME RICHARD

TIMELINE - Explosion after 3HRS

- 0750 - Fire starts (estimate)
- 0802 - Lower V looks foggy
- 0810 - Crewman reports to OOD
- 0814 - OOD reports to DC central
- 0815 - Investigator is dispatched
- 0817 - Investigator calls away incident to OOD
- 0818 - OOD tells DC Central to call it away
- 0822 - OOD hears nothing so is called away at QD
- 0826 - FEDFire is dispatched
- 0829 - FEDFire arrives at ship.
- 0829 - DC locker is manned and ready
- 0839 - FEDFIRE evaluates situation
- 0838 - Shipboard FF initial gets to lower V
- 0925 - SDFD tries to find fire
- 0930 - FedFire assumes control
- 0933 - SDFD finds fire
- 0935 - FEDFIRE & SDFD encounter each other in upper V (NO Water on fire)
- 0940 - EDO ordered IET to exit ...
- 0944 - SDFD reenters BHR Lower deck but leaves due to ship unfamiliarity
- 0944 - Aft shore power secured *integration point
- 0951 - FIRST AGENT ON FIRE - after 2hrs
- 1037 - Evacuation ordered
- 1050 - USS BONHOMME EXPLODES BURNS FOR APPROX 5 DAYS

TIMELINE WITH NIMBLE™

Fire Extinguished after 35 MINS

- 0750 - Fire starts (estimate)
- 0751 - Sensors detect Smoke
- 0751 - DC & OOD alerted
- 0751 - White Smoke called away investigator to depart DC Central
- 0756 - Investigator calls away
- 0756 - 1MC announcement made
- 0803 - Repair locker manned and ready
- 0805 - FedFire arrives on scene
- 0810 - Both Fire Teams dispatched
- 0814 - AGENT ON FIRE
- 0826 - FIRE EXTINGUISHED



NIMBLE™

With the NIMBLE™ system in place the fire would have been extinguished in 35 mins

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