



Phoenix Mobile Automatic Fire System

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Phoenix 500 L CAFS Extinguisher



- Automatic UVIR Fire detection
- Excludes hot engines and surfaces
- GSM cell notification on activation
- Self contained Compressed air operated
- 20m hose for manual fire tender
- Dual oscillating nozzles
- Independent and mobile
- 500l CAFS produces 5000l foam
- Safeguard key vehicles, machinery, pumps, turbines and compressor sheds

Team Members & Brief Bios



- Ian J. Hanlon
- CEO
- Product Research and Development

- Work history: Geologist, Marine Geophysicist, High Performance Computing Systems developer, Electrical systems technician, Research Scientist (FWI & Compressive sensing, SLIM UBC), Project manager and Fire product developer
- Volunteer: Royal Canadian Marine Search & Rescue, registered Wildfire Urban Interface advisor with Canada FireSmart program

This is who we are



- Compressed Air Foam systems
- Designed for and Supplied to British Forces
- Robust, self contained and work in the harshest (battle) conditions
- 3000psi SCUBA tank provides regulated airflow into AFFF foam tank at 180psi
- Adding 2nd air input to the flow increases foam volume up to 10x
- Smothering fires and preserving expensive equipment

Remote Control Fire Fighting



- In the first slide we demonstrate the automated system which is used by the UK Royal Airforce to protect EuroFighters and C130's in the hanger.
- A significant upgrade is planned to provide gas detection, fuel detection, O2 monitoring, Temperature detection and communication via 3G LTE
- Audio Visual transmission and *remote operation* from external application.
- Providing simple effective fire suppression control from a *safe distance* for fire crews and company operators

This is our mission



- Update sensors & communication
- Implement remote operation
- New range of size & capacities
- 100 L = 1,000 L foam
- 250 L = 2,500 L foam
- 500 L = 5,000 L foam
- Overwatch Integration
- 72 Hour endurance drones

What we want to achieve



- Integrating the *smart* fire products
- Creating an Overwatch platform to relay communications and control up to 72 hours and 5 km
- Expansion of range and capacities
- Streamlining manufacture
- Expand markets

SWOT Analysis

- Established 16 years in the military market
- Strong design and leadership team
- Large potential market

- Markets: O&G, Marine, Military, Air Operations, Mining, Wildland-urban interface, Petroleum production field service, Gas compressor stations, Shipyards & port operations, Outposts beyond fire district jurisdiction, Flight line and aircraft maintenance areas, Flammable liquid storage and handling, Rack storage of Class A and Class B materials, Industrial fire and volunteer brigades, Wood processing and furniture production, Heliports, vehicles, Worker camps, Camping grounds, RV parks, and Marinas, Mining and below ground operations

- CAFS systems not generally understood
- Poor market penetration

- Cheaper alternatives that meet minimum requirements

Action Steps



- August 2019 - Planning meetings in UK
- September - New Project manager hire
- Recruit Technicians
- October - Current product sensor upgrades
- 1st Q 2020 - new products and sensor arrays
- 3rd Q 2020 - field testing

More information



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