

# Don't Let Your Fleet Be Detained or Risk a More Serious Disaster!



## Firefighter ATEX Radio SOLAS Ch. II-2/10.10.4

EVERY SOLAS regulated vessel must have a minimum of two (2) explosion-proof & intrinsically safe, portable two-way radios for each fire-party **by the next inspection after July 1, 2018.**

- **Non-Compliant Daily Estimated Costs:** Port Fees USD\$20-30k+; Shipping Schedules \$100k
- **Key Factors Impact FireFighter UHF Radio Selection** (See Pg. 2, Radio Model Features)
- **Attractive Purchase Options – Mackay Offers Bulk, Fleet & Package Discounts**

## Best Practices Using Firefighter Radios to Avoid Potential Perilous Consequences

- **Use Dedicated UHF Firefighter Radios** which are Stored in Recharging Station; in a Central Location.
  - Don't Rely on Daily Radios - Risks Poor Functioning Devices & Worn Batteries
  - Fully Charged Batteries Enable Sustained Critical Communications
  - Avoids Scrambling to Find Radios During a Crisis
  - Hands-Free Accessories Permit Focus on the Crisis & Communication
  - Ensures Easy Passage of Flag and Class Inspections; Avoiding Costly Delays
- **UHF vs. VHF Radios** – Proven UHF Provides SUPERIOR Communication Between Decks in Steel Structures
  - See Firefighter Radio Product Comparison on Page 2.
- **Critical Firefighter Updates Impact Decision Making**  
(i.e., Fire Location, Firefighting Progress, Track Personnel, Monitor SCBA Air Pressure, Medical Needs; Real-time Status Can Aid in Vessel Position Decisions, How to Trim the Ballast Differently, etc.)
- **Minimal Investment in Firefighter-Specific Radios versus Major Costs if Not Prepared**
  - Equipment, Cargo and Structural Loss
  - Crew and Passenger Safety and Liability

***Fires Won't "Wait" for Teams "To-Get-Ready"***  
***Shipboard Fires Happen Each Year***  
***(2023 - 200+ incidents reported & 8 vessels lost; 64 vessels since 2018\*)***

# Key Factors Impact FireFighter Radio Selection

- **Required Radio Standard\*** for Vessels Depends on Flag State, Port Region, Cargo-Type
  - ATEX Approved IIA, IIB, IIC, or IECEx and UL913 SGS Approved (Non-ATEX)
- **Frequency Band (UHF)** – Customer Submits Frequency Table to Supplier to Pre-Program Radios
- **Vital Accessory Options**, such as:
  - Microphones: Skull or Throat (Bone-Conduction) w/ PTT; Speaker-phone & Headset
  - 2nd Primary Lithium Battery for Back-Up
- **Number of Onboard Fire-Parties** – **Mackay Fleet & Package Discounts Available**

										
										
Model	VX 451/454 (Display)	Sailor 3965	Sailor SP3560	DT 844FF Analog	DT 944FF Analog	DT 885FF Digital/Analog	DT 985FF Digital/Analog	JHS 431	Thor 1/2 TP9000EX (/2 Display)	R8F Smart Find
*Intrinsically Safe Rating	**UL953	ATEX IIB T4	ATEX IIC T4	ATEX IIB T4	ATEX IIC T4	ATEX IIB T4	ATEX IIC T4	ATEX IIA T3	ATEX IIC T4 & IECEx	ATEX IIB T4
Frequency	VHF/UHF	VHF/UHF	VHF/UHF	VHF	VHF	VHF/UHF	VHF/UHF	VHF/UHF	VHF/UHF	VHF/UHF
Battery Capacity	1300-2300 mAh	1800-3000 mAh	1650 mAh Recharg.	1800 mAh	1800 mAh	1800 mAh	1800 mAh	1850 mAh	3450 mAh	1800-3000 mAh
IP Rating	IP57	IP67	IP67	IP68	IP68	IP68	IP68	IP67	IP67	IP67
Power Output	Wattage Selectable 5W-2.5W to 1W-0.25W	Wattage Selectable 2W to 0.4W	Wattage Selectable 2W to 1W	3.9W Hi, 1 Watt Low	1 Watt	2 Watts	1 Watt	Wattage Selectable 2W to 0.2W	2W	Wattage Selectable 2W to 0.4W
Special Features	FCC Approved for US Waters	Large Buttons for Easy FF Use	Large Buttons for Easy FF Use	MIL-STD 810 C/D/E/F/G	MIL-STD 810 C/D/E/F/G	MIL-STD 810 C/D/E/F/G	MIL-STD 810 C/D/E/F/G	Small, Light, compact design	Man Down Function, Digital/Analog	Large Buttons for Easy FF Use

\*\* With intrinsically safe battery

## Mackay Marine Contact for Pricing & Availability:

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