


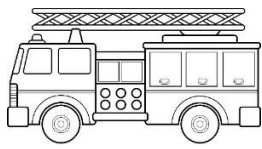

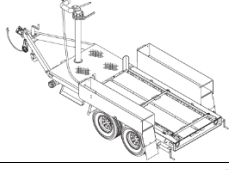
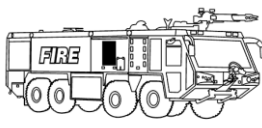
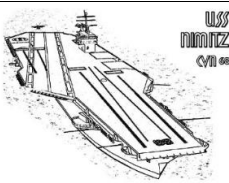


FIRE DEPARTMENT SERVICE ANNOUNCEMENT

Bulletin #23, Delivery Containers for Aqueous Film Forming Foam (AFFF), May 14, 2021

AFFF Containers, Water Contamination by Volume

<i>Item</i>	<i>Delivery System</i>	<i>Amount of AFFF</i>	<i>H₂O Contamination (gallons)</i>
	Fire extinguisher	9.3 oz	1.03 Billion
	5 Gallon Pail	5 Gallons	71.3 Billion
	55 Gallon Drum (11 5 gallon pails)	55 Gallons	427 Billion
	Fire Apparatus	30 to 50 Gallons	784 Billion
	Tote (53 5 Gallon pails)	265 Gallons	3.7 Trillion
	Foam trailers	250 to 3,000 Gallons	7.1 Trillion
	ARFFs	250 to 630 Gallons	8.5 Trillion
	Aircraft Carrier	> 20,000 Gallons	285 Quadrillion

"70 ppt is equivalent to about three-and-a-half drops of water in an Olympic-sized swimming pool" - - according to David Andrews of EWG, the fact PFAS are even measured in parts-per-trillion is a signal of the risk potential." [\[Why a 'safe' PFAS level in drinking water is so ambiguous. Mlive, Grand Rapids, MI, Jan 19, 2019. https://www.mlive.com/news/grand-rapids/2017/11/what_is_a_safe_pfas_level.html\]](https://www.mlive.com/news/grand-rapids/2017/11/what_is_a_safe_pfas_level.html)