

AST Roof Safety Solutions



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<u>Solutions</u>	<u>Method</u>	<u>Costs</u>	<u>Advantages</u>	<u>Disadvantages</u>
Take tank out of Service	Drain, clean and gas free tank. Repair or replace roof as required	Very high! Requires cleaning and gas freeing	Total replacement is highly effective but very expensive.	Patch repairs involve significant risk of recurrent problems. Total cleaning and gas freeing required for hot work.
<u>Buoyancy Balls</u>	Pump liquid out of pontoons. Fill the at risk pontoons with <u>hollow plastic buoyancy balls</u> , to restore buoyancy	Moderate	Easiest repair to make. Only normal maintenance skills required. Can be done quickly with minimal service interruptions.	
Foam	Fill pontoons with foam	Moderate	Could restore buoyancy to pontoons that could not keep balls contained.	Requires handling of hazardous liquids, complex injection system, and hazardous waste disposal. Difficult to remove oil-soaked foam after service, and gas free pontoon for hot work. Weather dependent.
Liner	Insert inflatable liner into pontoons.	Moderate		Installation requires inserting liner in difficult places in pontoon. Single hole in liner stops installation and requires new liner to be purchased.