



# LESSONS LEARNED



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## Electrical Hazards (Working Spaces)

### TOWING HAWSER NEAR MISSES AND INJURIES AND LESSONS LEARNED

Electrical hazards often result in serious injuries or death. For this reason it is important to know the hazards and the steps that may be taken to correct them. Listed in this document are lessons learned for electrical hazards.

Injuries		
Category	Amount	Lessons Learned
Broken Equipment	3	Replace all broken and damaged immediately
		Maintenance frequency should be increased
Equipment Malfunction	4	Maintenance frequency should be increased
Improper Maintenance	18	Proper maintenance procedures must be taken
		All crew must be trained before performing maintenance tasks

Near Miss		
Category	Amount	Lessons Learned
Broken Equipment	45	Replace all broken and damaged immediately
		Maintenance frequency should be increased
Defective Design	3	Design differences between models should be investigated
		Some designs may be faulty
Employee Inattention	8	It is extremely important to pay attention to detail
Equipment Malfunction	89	Maintenance frequency should be increased and low quality replacement products should not be used
Improper Maintenance	79	Proper maintenance procedures must be taken and all crew must be trained

		Situational awareness must be taken when performing maintenance tasks
Incorrect Assembly	21	Crew must have proper equipment training
		Electrical wiring should only be performed by employees with necessary training
Missing Equipment	4	Inspections should be increased
		Equipment should be replaced to original location
Overloaded Circuits	46	Equipment ratings should be respected
		All crew should have electrical equipment training
Replacement Part Needed	9	Maintenance frequency should be increased
		Replace all broken and damaged immediately
		Equipment containing water should be disconnected from electrical sources
Wrong Equipment in Use	4	Crew must have proper equipment training

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