

**ENGINEERING INCIDENTS DURING DEFENCE NUCLEAR MATERIAL CONVOYS  
1 July 2007 - 31 December 2012**

Type	Date	Description & Cause	Outcome
ROAD	Jul-07	Convoy Support Coach clutch failure.	Vehicle replaced - convoy continued with minor delay.
ROAD	Sep-07	Convoy Command Vehicle (C2V) temporarily lost communications.	Checked at rest break - no fault found.
		Truck Cargo Heavy Duty (TCHD) cab overheating - fan faulty.	Convoy not affected - Fans subsequently replaced across fleet.
ROAD	Jan-08	Convoy Escort Vehicle brakes locked - 2 tyres damaged. Spares fitted.	Convoy recovery vehicle utilised - minor delay.
ROAD	Feb-08	Automatic Vehicle Location System (AVLS) not responding in Operations Centre.	Equipment Checked and rectified.
ROAD	Apr-08	TCHD oil leak discovered at rest break, followed by cab tilt switch warning light on subsequent leg.	Rectified at rest break - minor delay, followed by sensor failure - replaced after convoy completion.
		Convoy Escort Vehicle fuel leak discovered at rest break.	Vehicle replaced - convoy continued with no delay.
		Sporadic issues with AVLS failure.	Poor weather determined as the cause.
ROAD	May-08	MDP Traffic Motor Cycle break down - fuse box failure.	Vehicle recovered - convoy continued with minor delay.
ROAD	Sep-08	Convoy Escort Vehicle brakes overheating - brakes binding.	Convoy proceeded. Unserviceable vehicle recovered and rectified.
ROAD	Jul-08	Sparks observed coming from 2 x TCHD's during night time evolution. Convoy halted and issue identified as normal operation of the Jacob engine braking system.	Convoy continued. Personnel briefed on normal operating systems and production of sparks during engine braking - only visible at night. Minor delay.
		Convoy Support Coach non-specific break down en-route.	Vehicle left for recovery - load transferred to other vehicles and convoy continued. Minor delay Replacement programme initiated.
ROAD	Jan-09	TCHD Fuse box failure - unrepairable during operation.	TCHD spare tractor unit utilised - defective vehicle recovered to AWE. Minor delay.
ROAD	Dec-09	Convoy Escort Vehicle transmission failure - prop shaft angle too severe and causing transfer box failure.	Vehicle replaced and recovered to manufacturer. Fleet modification programme initiated.
ROAD	Mar-10	Convoy Escort Vehicle Puncture.	Wheel changed - minor delay.
		Misfuelling of 2 Escort Vehicles - Human Error.	Rectified at rest break - minor delay.
		Convoy Support Vehicle (CSV) generator overheated.	Rectified at rest break during delay.
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ROAD	Jul-10	Convoy Command vehicle experienced rear door opening whilst on the move. Defective rear door catch.	Temporary fix initiated and convoy continued without further incident. Problem rectified on return to AWE.

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ROAD	Sep-10	C2V EDC warning light and smell of burning - convoy halted.	No faults found - external smell suspected - minor delay.
ROAD	Sep-10	C2V Blue Lights inoperative.	Vehicle Reset required - convoy continued with minor delay.
ROAD	Nov-10	High Security Vehicle (HSV) clutch slipping - wear & tear.	Vehicle returned to AWE; spare vehicle utilised - minor delay.
		C2V EDC warning light.	Investigated - no fault found.
ROAD	Nov-10	Sporadic issues with AVLS failure - ageing system.	Replacement programme initiated.
		Convoy Escort Vehicle had issues with Tyre Pressure Warning System and EDC warning lights - both indicator errors.	Vehicle recovered by suspended tow using convoy assets - convoy continued with minor delay. Fault rectifications pursued with manufacturer under warranty.
		TCHD Spare Tractor unit - unspecified break down.	Convoy continued without spare due to proximity to destination.
ROAD	Dec-10	HSV tail lift inoperative.	Rectified prior to departure - minor delay.
ROAD	Dec-10	C2V Blue Lights inoperative.	Vehicle Reset required - convoy continued with minor delay.
ROAD	May-11	C2V Blue Lights & Sirens inoperative.	Vehicle replaced with Police Traffic Unit - C2V rectified at Destination - minor delay.
ROAD	Jul-11	C2V experienced fuel system failure - subsequently found to be manufacturing fault.	Convoy halted on M6 northbound resulting in minor obstruction to busy motorway. Delay to planned operation. Fuel systems checked and rectified across fleet following return to AWE.
ROAD	Jul-11	C2V Blue Light inoperative and puncture.	Vehicle replaced with Police Traffic Unit, wheel changed - minor delay.
ROAD	Sep-11	CSV speed sensor fault - sensor failure.	CSV trailer attached to recovery vehicle to assist in completion of planned operation. Subsequent replacement of speed sensors rectified problem.
		C2V Blue Lights inoperative.	Vehicle Reset required - convoy continued with minor delay.
		TCHD Auxiliary Alternator bracket failure.	Convoy continued as this is a secondary system. Fault rectified in return to AWE.
		TCHD Security System air leak.	Rectified during unloading.
		TCHD Trailer Heat Monitor alarm - caused by significant temperature difference between garaged area and outdoors.	Alarm reset - no impact. Further investigation and repeat occurrences whilst on base instigated a software upgrade to rectify the problem.
ROAD	Oct-11	C2V Blue Lights inoperative.	Vehicle Reset required - convoy continued with minor delay.

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ROAD	Nov-11	HSV Minor Fuel Leak - wear &tear.	Rectified and convoy continued - minor delay.
ROAD	Jan-12	Fire Tender brake fault discovered on arrival at northern Termini.	Replacement vehicle utilised - no delay to southbound departure. Tender recovered and repaired.
		TCHD Fuse box failure.	Fuses replaced during operation an no further fault found - minor delay.
		C2V experiencing reduced braking - convoy halted and no fault found.	Minor delay to planned operation. Subsequent investigation discovered minor design fault with mechanical safety system - fleet modification programme initiated.
		TCHD Security System air leak. Minor but repeat issue and therefore further investigation deemed necessary.	Tractor unit swapped prior to departure - minor delay.
		Convoy Escort Vehicle gun port flap opened inadvertently - convoy halted to resolve issue. No fault found.	Minor delay to planned operation.
ROAD	Mar-12	Load securing system damaged during offload - bolt siezed and damaged during rectification.	Trailer returned to manufacturer for assessment and repair.
ROAD	Apr-12	Load securing system alignment issue discivered during loading.	Issue investigated and resolved with manufacturer.
		TCHD Trailer Heat Monitor alarmed during transit.	Investigated - no fault found. Reset and convoy continued - awaiting software upgrade initiated from previous incidents. Minor delay.
ROAD	Jun-12	HSV Battery Flat.	Slave started - minor delay.
ROAD	Jun-12	Convoy Escort Vehicle suspension system defect. New vehicle issue. Cause unknown.	Vehicle load reduced and convoy continued. Vehicle rectified and fleet checked with no further issues found.
		During unplanned stop to investigate above incident - a manhole cover collapsed under a further escort vehicle.	Vehicle inspected for damage but cleared to continue. Minor delay.
		TCHD Trailer Heat Monitor alarmed during transit.	Investigated - no fault found. Reset and convoy continued - awaiting software upgrade initiated from previous incidents. Minor delay.
		TCHD Auxiliary Alternator bracket failure.	Discovered in Termini location - fault rectified. 2nd incident - Component redesign instigated fleet wide.
ROAD	Sep-12	Convoy Escort vehicle reported smoke and fumes in cab. No immediate cause found.	Convoy halted for investaigation. Spare vehicle utilised. Minor delay.

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		2 x Vehicles from MDP Operational Support Unit (non convoy vehicles) providing support to the operation, reported battery fires. Both vehicles had recently been serviced and a	Vehicles returned to unit for investigation. No impact to convoy operation.
		MDP Traffic vehicle break down - Clutch failure. Wear & tear.	Vehicle recovered to nearest MoD establishment. Convoy continued - no impact to operation.
ROAD	Nov-12	HSV Alternator Failure.	Divert to MoD establishment and replaced. Delay (50 Mins).
ROAD	Dec-12	TCHD Trailer Heat Monitor alarmed prior to departure.	Investigated - no fault found. Reset and convoy continued - awaiting software upgrade initiated from previous incidents. Minor delay.
		Convoy Command vehicle reported non-specific fault on-route. Convoy halted initially on A46 south, then moved to better location off main highway for more detailed inspection. No faults found.	Convoy proceeded following investigations with no further issues. Minor delay. Vehicle examined in detail on return to AWE. No faults found.