

National Park Service – Corrective Action Plan Wilson Fire, Fire Use Module Vehicle Loss Report

REFERENCE TO VEHICLE LOSS REPORT	CORRECTIVE ACTIONS (Bolded text is the action item identified in the report. This is followed by the specific corrective action(s) that will be implemented.)	PERSON(S) RESPONSIBLE	DUE DATE
Factor 1, Item 1 & Item 3	<p>MTDC or other professional organization should be tasked to perform periodic testing of fusee/flammables to determine the fusee meets the fuel composition percentage requirements per 5100-360E, 3.2.4 (reference b) and further testing performed to determine if spontaneous ignition could occur at the less than or equal to temperatures when tested in accordance with 4.5.6.</p> <p>1) NPS will submit a memo to NWCG requesting that the Fire Equipment Working Team:</p> <ul style="list-style-type: none"> • Work with GSA to ensure that fusee vendors are in compliance with specification 5100-360E, sections 4.3 & 4.5.6, which requires that each lot of fusees be sampled and tested (particularly the spontaneous ignition test) and the laboratory results submitted to GSA. • Review the frequency, quantity and quality of fusee testing and adjust the requirements as warranted. • Report back to the NPS with their findings and recommendations by 08-28-09. 	NPS Wildland Fire Safety Manager, NPS Chief of Fire & Aviation	06-06-09
Factor 1, Item 2	<p>All Fire Use Vehicles transporting fusee/flammables and fusee Storage Facilities should inspect fusees for degradation due to movement, old fusees lot expiration dates in the compartment and physical condition of shipping containers.</p> <p>2.a) All fusees transported in NPS fire vehicles or stored in NPS fire facilities will be inspected by the identified due date and defective/damaged fusees removed from service. See Attachment 2 for additional fusee inspection information.</p>	<p>NPS Units</p> <p>NPS Units</p>	<p>06-22-09</p> <p>reoccurring</p>

	<p>2.b) Through the use of updated vehicle daily/weekly readiness checklists, park units will conduct regular inspections of fusees with particular attention to life-expectancy and visible degradation.</p> <p>2.c) The NPS-Fire Management Program Center (FMPC) will work to update interagency standard operating procedures to include direction for routine fusee inspections (e.g. add to appropriate interagency preparedness review checklists).</p>	NPS Wildland Fire Operations Program Leader	g 07-31-09
Factor 2, Item 1	<p>In the interim all holes through compartments leading to turn signal light clusters should be sealed.</p> <p>3.a) Park units will inspect all wiring associated with storage compartments in all fire vehicles to ensure protection of wiring (especially over metal edges), addition or replacement of grommets, and related conditions. By the identified due date, parks will send affirmative response of inspections and corrections to their Regional FMO by providing license numbers of inspected/corrected vehicles.</p> <p>3.b) Regional FMOs will advise the NPS-FMPC when inspections and corrections of all fire vehicles in their region have been completed.</p> <p>3.c) The NPS-FMPC will review and appropriately modify national vehicle purchase requirements to ensure that this possible risk does not continue on WCF purchased vehicles (also see corrective action # 4).</p> <p>3.d) The NPS-FMPC will work to update interagency preparedness review checklists for wildland fire vehicles and engines by including elements for protecting wiring through compartments and inspecting the condition of vehicle wiring.</p>	<p>NPS Units</p> <p>Regional FMOs</p> <p>NPS Capital Equipment/Facilities Specialist</p> <p>NPS Wildland Fire Operations Program Leader</p>	<p>06-22-09</p> <p>07-06-09</p> <p>07-06-09</p> <p>07-31-09</p>
Factor 2, Item 2	<p>Future installation of S&S Fire Support package should not be wired through storage compartments. Recommend to package manufacturer modification of the S&S Fire Support package.</p>	NPS Capital	

Attachment 1

	4) NPS-FMPC to revise national vehicle purchase requirements to ensure this possible risk does not continue on new purchased vehicles, regardless of contractor source.	Equipment/Facilities Specialist	07-06-09
Factor 2, Item 3	<p>Before, during and after deployment, ensure that all fuel spillage is promptly cleaned up.</p> <p>5.a) Park units will incorporate the immediate clean-up of any spilled flammable fuel in vehicle compartments into standard operating procedures associated with vehicle readiness, incident response, and post-incident refurbishing.</p> <p>5.b) NPS-FMPC will work to ensure that similar requirements are included in interagency operational and safety standards, preparedness checklists, etc.</p>	<p>NPS Units</p> <p>NPS Wildland Fire Operations Program Leader</p>	<p>06-22-09</p> <p>07-31-09</p>
Factor 2, Item 4	<p>All fuel containers (including SIGG™ bottles, Dolmar™ containers, etc.) should be stored in the upright position to prevent spillage.</p> <p>6.a) Park units will incorporate the secured and upright storage of all flammable/combustible liquids containers, especially in vehicles, into standard operating procedures. Parks will emphasize the importance of securing all containers so that they can withstand rigorous travel conditions, both on- and off-road, utilize spill proof containers, avoid overfilling, etc. Emphasis will be on actions to eliminate or minimize fuel spillage, (in concert with corrective action 5.a).</p> <p>6.b) Park units will ensure that fusees are transported in compartments that are separate from compartments containing flammable/combustible liquids. See Attachment 2 for additional information on ground transportation of fusees.</p> <p>6.c) NPS-FMPC will work to ensure that similar requirements are included in interagency operational and safety standards, preparedness checklists, etc.</p>	<p>NPS Units</p> <p>NPS Units</p> <p>NPS Wildland Fire Operations Program Leader</p>	<p>06-22-09</p> <p>06-22-09</p> <p>07-31-09</p>
Factor 2, Item 5	All electrical modifications and repairs should be made by certified personnel in consultation with vehicle manufacturer		

<p>and installed fire apparatus package.</p> <p>7.a) Park units will ensure that all <u>future</u> electrical modifications and/or repairs, including the installation of aftermarket devices be conducted by a licensed vehicle electrician, with an emphasis on ensuring the ability to withstand rigorous travel conditions, both on- and off-road within design limitations of the vehicle.</p> <p>7.b) Parks will seek inspection of existing electrical systems which have had aftermarket devices (e.g. radios, cell phones, charging outlets, etc.) installed, if the wiring was not completed by a licensed vehicle electrician. Standard devices plugged into cigarette lighters are exempt from this requirement.</p> <p>7.c) NPS-FMPC will recommend that similar requirements are included in interagency operational and safety standards, preparedness checklists, etc.</p>	NPS Units	06-01-09
	NPS Units	07-17-09
	NPS Wildland Fire Operations Program Leader	07-31-09