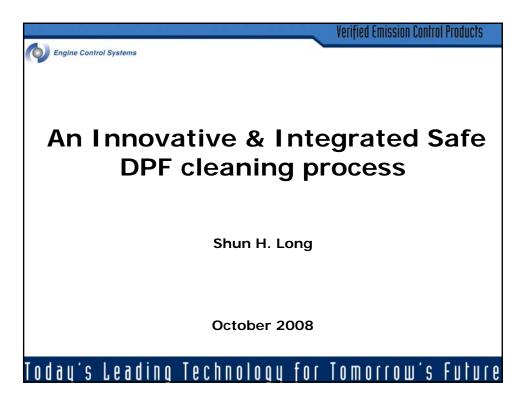
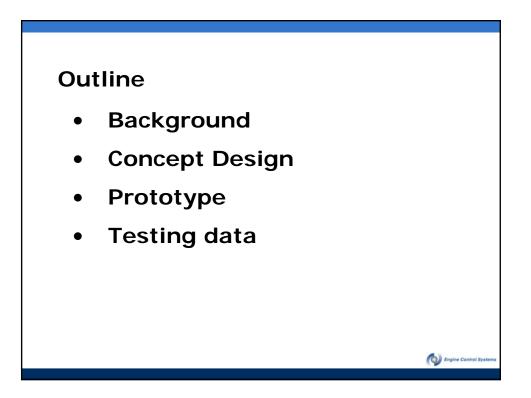
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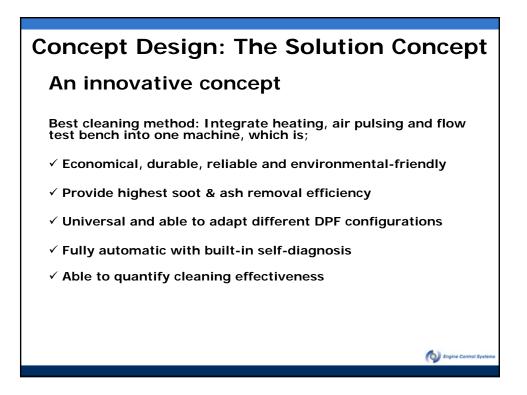
Engine Control System

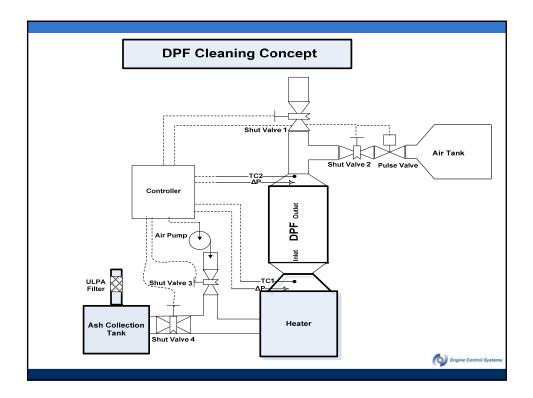
Background

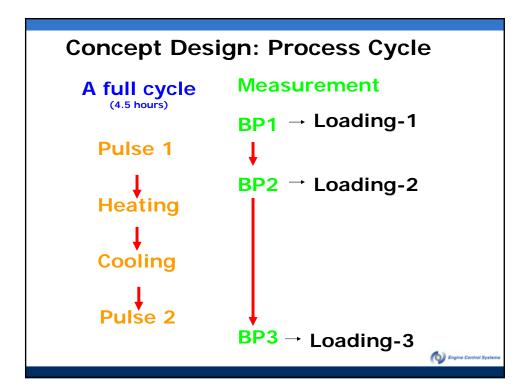
- Beside the growing DPF retrofit opportunities, 2007 On-Road and emerging Off-Road regulation have widely increased the utilization of DPF on 2007 year model vehicles and beyond. 1st wave of OEM production fitted with DPF will require a 1st cleaning or ash removal process by the end of 2008 or early 2009.
- Many studies concluded the impact of lube ash accumulation on DPF capacity and integrity under exothermic conditions.
- An End-User with multi vehicle makes require single method and process to clean various DPF configurations
- The cleaning process needs to be consistent & comprehensive;
 - Able to quantify DPF loading
 - Safeguard mechanical integrity of the DPF
 - Able to quantify cleaning efficiency

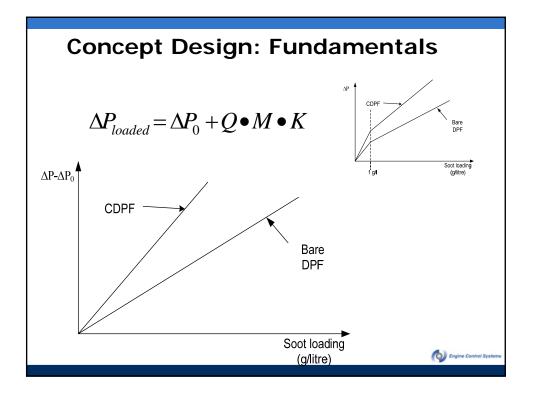
Background: DPF Cleaning Methods		
Method	Туре	Effect
Thermal	Electrical Heater	Effective on Soot No effect on Ash
Compressed Air	Back Flush	Limited effect on loose Soot & Ash
	Pulse	Better effect on loose Soot & Ash
	Vacuum	Improve compressed air method effectiveness
Wet	Water Flush	Limited use with non water soluble catalyst
		Impact mat durability
	Steam Flush	Limited use with non water soluble catalyst
		Impact mat durability
		Control

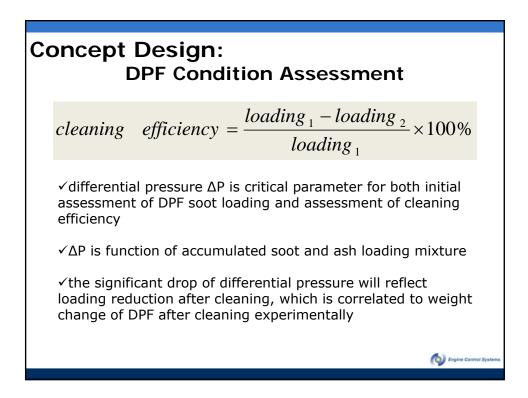












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