

USDA Forest Service Fire and Aviation Management Briefing Paper



Date January 18, 2009

Topic: FS Fire Engine Standardization Project

Issue: Specification Development of Adopted Engine Standards

Background: The Fire Vehicle Standardization Committee was established to develop recommendations for fire vehicle standardization policy and develop a series of common models to be used nationally. Efforts to date have included collecting engine and tender data from each region, cleaning the data, collecting any standards a region may have already in-place, collecting training and other policies. The Committee prepared a draft set of recommendations which were circulated amongst the regions for comment. Additional changes were made and final standards were presented to the Regional Foresters. The standards were accepted and approved by leadership.

New Engine Standards Specification Development Timeline

- Engine Type 3 (Models 3X6 and 3X8) Specification and drawings to be completed by January 31, 2009
- Engine Type 4 (Model 4X8) Specification and drawings to be completed by March 31, 2009
- Engine Type 6 (Model 643) Specification and drawings to be completed by February 27, 2009
- Engine Type 7 Slip on unit specification to be completed by April 30, 2009
- Ordering Guide will be developed in a progressive manner based on the engine specification timeline
- Specifications, drawings, and ordering guide will be posted to the Fire and Aviation Management Web site

Engine Requirements

General Requirements:

NFPA 1906 (with limited exceptions – separate attachment)	
per draft FS handbook supplement (based on R-5 requirements)	
Green	
Automatic	
Rear	
One	
20 gallons	
Foam proportioner: Automatic-regulating injection on discharge side of pump	
RLS: per 5120 and NFPA 1906	
Amber lighting: per NFPA 1906	

Specific Requirements by Engine Type:

Type 3 (Model 3X6)		
Chassis:	33,000 lb GVWR	
Body:	Crew cab utility body	
Tank:	600 gallons	
Pump:	PTO, single stage, 200 gpm @ 300 psi	
Options:	4x2 (model 326) or 4x4 (model 346) drive	
1		
Type 3 (Model 3X8)		
Chassis:	33,000 lb GVWR	
Body:	Single cab utility body	
Tank:	800 gallons	
Pump:	PTO, single stage, 200 gpm @ 300 psi	
Options:	4x2 (model 328) or 4x4 (model 348) drive	
Type 4 (Model		
Chassis:	33,000 lb GVWR	
Body:	Single cab, platform body with storage boxes	
Tank:	800 gallons	
Pump:	Auxiliary engine, 50 gpm at 250 psi	
Options:	4x2 (model 428) or 4x4 (model 448) drive	
Type 6 (Model		
Chassis:	17,950 lb GVWR	
Drive:	4x4	
Body:	Extended cab utility body	
Tank:	300 gallons	
Pump:	Auxiliary engine, 50 gpm at 250 psi	
Options:	Crew cab	
	Platform body	
Type 7 – Slip-on unit only		
Type $7 = \operatorname{Sup-0}$. Tank:	50 or 125 gallons	
Pump:	Auxiliary gas engine, 10 gpm at 100 psi	
Hose reel or bas		
Options:	50 or 125 gallons	
Foam proportioner		
roam proportioner		

Installation requirements: 50 gal: 9,700 lb GVWR min 125 gal: 12,000 lb GVWR min

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