



USDA Forest Service Fire and Aviation Management



Date October 29, 2008

Topic: FS Fire Engine Standardization Project

Issue: Finalization of Proposed 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 has prepared a draft set of recommendations which were circulated amongst the regions for comment.

The Committee reviewed the comments received which were primarily addressing the engine identification and marking proposals. Overall the comments did not contain any concerns relative to the number of models, although there were a few comments concerning the options, tank capacity and pump.

Key Points:

- Committee reviewed each comment for potential adjustment and applicability for a national standard
- Testing was completed on the single-stage pump and compared to the two-stage pump in order to determine performance efficiency and the single-stage pump is recommended as the standard (**See Appendix Pump Report**)
- Identified additional work to be accomplished within the next six-nine months
- The Committee will draft responses to each region thanking them for the input and the disposition of their comments
- The Model Naming Conventions were selected so the new standards would not duplicate any existing models although the standards have adopted existing models

Final Recommendations for Engine Standards (See Appendix Engine Standards)

- Engine Types:
 - New Models 32P, 32U, 34P, 34U are Type 3
 - New Models 42P, 42U, 44P, 44U are Type 4
 - New Models 64P, 64U are Type 6
 - New Models 7SS, 7LS are Type 7
- Engine Option Packages:
 - Type 3: Crew Cab, 4X2 or 4X4, Second Hose Reel, Spare Tire
 - Type 4: Extended or Crew Cab, 4x2 or 4x4, Automatic or Manual Transmission, Second Hose Reel
 - Type 6: Single or crew cab, Automatic or Manual Transmission, Second Hose Reel
 - Type 7: 50 or 125 gallons, Foam Proportioner

- Engine Identification Standards:
 - Unit Designator – AA-BBB where AA=State and BBB= 3 alpha forest designator
 - Equipment Designator – WXYZ where W = equipment category (E=engine, P=Prevention, D=dozer, etc) X = equipment type (Type 3, Type 7, etc.), Y = district, Z = equipment number
- Naming Convention Standards:
 - Engine Type, Drive and Body are designated in the Model for Types 3, 4, 6 and 7
 - Engine Type, Tank Size, and Configuration are designated in the Model for Type 7
- Engine Marking Standards:
 - Roof – Standard White Reflective 18” on Green Engine
 - Side – 4” White Reflective Strip, 4” FIRE decal White Reflective, 6” Unit Designator and 8” Equipment Designator
 - Door, Rear and Front see appendix Marking Standard
- Engine Color:
 - Current Forest Service Fleet Green Color
 - Discussion – the standard is recommended to be green, however there are units that are blended with both BLM and FS. An option for these units could be to allow white as well as if Green is not available at the time of order to order in White. The Fire Director will need to identify what should be the standard and if an option is desirable or not.

Decision Needed: Adopt and Implement as Policy as proposed or Adopt and Implement as Policy with requested adjustments

Additional Information

- Will complete cost analysis once decision is made in order to display estimated costs per model for comparison to existing configurations
- Will develop an ordering guide that will include specifications which will contain details relative to size and location of boxes, gauges, panel, options to select from and visuals
- Will develop engine operator curriculum based on the standard engines
- Implementation of the new standards will be phased in as units replace or acquire new engines
- Will establish a web page for units to obtain information from
- Will present to Fleet BPR upon adoption by FAM

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