From: Graham Noyes
To: WIND Cory Ann
Subject: Re: Clarifying question
Date: Tuesday, October 02, 2018 13:10:48

Cory-Ann,

Here is technical information regarding the specifications issue from a CAAFI summary of this subject. This is from a document that was updated in March 2018 so is current, and can be accessed
at http://www.caafi.org/tools/docs/Path_to_Aviation_Alternative_Fuel_Readiness_v24.pdf

> The most crucial documents for understanding qualification and production requirements for synthetic jet fuel are the ASTM standards. The ASTM Standard Practice for qualification of "drop-in" aviation fuels is D4054, "Guideline for the Qualification and Approval of New Aviation Turbine Fuels and Fuel Additives." The ASTM specification for petroleum-based Jet A/A-1 jet fuel is D1655, "Standard Specification for Aviation Turbine Fuels." and the specification for synthetic jet fuels is D7566, "Standard Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons." D7566 specifies the performance properties and other criteria for individual alternative jet fuel synthetic blending components in annexes that specify unique properties for each blending component. Links to these ASTM documents can be found on CAAFI's website, caafi.org, as can a list of fuel production processes that have been approved as blending components for use in jet fuel. New classes of synthetic fuel blending components can be added to the specification by annexation. Getting through the ASTM approval process is a critical step on the path to getting the aviation community to accept a new alternative fuel because aviation regulatory authority approval is automatically granted once a fuel is incorporated as an annex into D7566, enabling it to be cross-registered with D1655 and allowing its use in all existing commercial aircraft as jet fuel.

Best Regards,

Graham

On Tue, Oct 2, 2018 at 11:29 AM WIND Cory Ann <Cory.Ann.WIND@state.or.us> wrote:

> Hi Graham,
>
> We received a comment during the comment period that ASTM D7566 should apply to the finished blended jet fuel (convention + alternative). I don't have access to the actual standard so can you provide me with your input on this comment?
>
> *Cory-Ann Wind*
>
> Oregon Clean Fuels Program Manager

wind.cory@deq.state.or.us

503-229-5388

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