

Q: We would like the PMI of Fuels 3 and 4 expanded to a range of 0.2, say 1.5-1.7. Is that possible?

A: seems fine but would expand 0.05 units in each direction (1.45 - 1.65). Note that all fuels except F3 and F4 already use a range of 0.2. Also, it will be prudent to review and if necessary, update (tweak) the PMI and distillation specs with the latest RW 121 data, which I'm in the process of looking into

Q: We need some clarification on the two test methods that call for PME per NREL and YSI per NREL. Do we talk to NREL? Is there a contact to call?

A: The method that should have been cited here was [RW-107-3a](#). The contractor should use the [PME Calculator](#), (appendix A of to RW-107-3a) to calculate PME. Conveniently this calculator also has YSI terms, though mole fraction of each fuel component is needed to calculate a total YSI via

$$YSI_{mix} = \sum_j x_j \times YSI_j$$
. For reference NREL's, YSI database can be found here <https://ysi.ml.nrel.gov/>. Project leads can assist on the YSI calculation if needed.

Q: the SimDis Method has an asterisk that says to use "ASTM D7096 Enhanced SimDis method as laid out in the NPRM". Can we get more information on this method?

A: I believe the source NPRM supplement is EPA-420-R-23-009 <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P1017FSF.pdf>.

Q: For Lower Heating Value, we use ASTM D240mod. Will that be acceptable?

I am okay with D240mod since D240 has issues.

Q: Which metals by ICP-MS are required?

Since we are not dealing with one-off renewables, I am less concerned with metals testing and I don't recall using testing for metals (on fuels) in any of the recent gasoline studies in CRC.

For all 10 products, 4 drums will be produced along with 4 1-gallon containers.

Q: Will you need all drums shipped to NREL or will they need to be stored and shipped in segments? If shipped in segments how many will ship at a time?

A contractor has not been selected at this time to receive the fuels. Fuel Shipping details will need to be specified by the contractor selected. Please plan for possible shipping to Michigan, Texas, or California. We suggest planning a small cushion for potential fuel storage if needed by the contractor.

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Q: Where will all the 1-gallon containers be shipped to? Will they need to be stored and shipped in segments?

We expect the 1 gallon containers to be shipped to various member labs in Michigan, Texas, and Kentucky. These containers can be shipped as ready.