

**SIMPLIFIED ACQUISITION
BRAND NAME JUSTIFICATION FAR 13.106-1(b)
(\$3k to \$150K)**

NASA requires the use of a small turbo-shaft engine to couple with an electric motor-generator in order to perform hybrid electric research. NASA will utilize an existing test stand and facility infrastructure to host the hybrid experiments. The test stand can accommodate only a lightweight turbo engine in the range of 275 to 350 horsepower, with dimensions no bigger than 55”L, 30”W, 40”H, and weighing less than 200 lbs. The Allison 250 C18 was chosen because its performance, size and weight fit within the capability limits of the existing NASA test stand and no other companies’ similar products do not meet, or cannot be modified to meet, the agency’s needs. The test cell being procured can be any size, but the chosen engine for the test cell is the Allison 250 C18 because ultimately this engine will be removed from the cell and mounted onto the NASA test stand. The re-use of the stand reduces cost and fits within the budget requirements of the project. If any other turbo engine is used then a new test stand will have to be built along with a new concrete pad which will be out of scope of the project schedule and budget.

As the Contracting Officer I have determined that purchasing the Allison 250 C18 brand name item is justifiable under FAR 13106-1(b).

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07/10/2014

Rosalia Toberman, Contracting Officer

Date