



Test Monitoring Center

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Sequence VID Information Letter 12-2
Sequence Number 10
July 30, 2012

ASTM consensus has not been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.

TO: Sequence VI Mailing List

SUBJECT: Restarting Stage Data Generation During BSFC Measurements

During the July 17, 2012 Sequence VI Surveillance Panel Conference call, the panel agreed to define the procedure for restarting a BSFC stage when data is projected to be outside the operating ranges, without shutting down the test. Section 11.6.5 has been revised and section 11.6.5.1 has been added to define when and how restarting a stage can be accomplished. In addition, definitions for stage restart and shutdown have been added to Section 3.2.

The attached changes to Test Method D 7589 are effective July 17, 2012.

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Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/vid/procedure_and_ils/il12-2.pdf

Distribution: Email

(Revises Test Method D7589-11a, as amended by Information Letters 11-2 and 12-1)

3.2.8 *stage restart, n--* re-initiate a stage while the engine is running.

3.2.9 *engine shutdown, n* – the engine is brought to a complete stop.

11.6.5 Stabilized BSFC Measurement Cycle—After the stabilization period of 1 h has elapsed for each stage, use data obtained every 1 s for each of six 5 min segments. Use the data obtained for each 5 min segment to provide average values for speed, torque and fuel flow for the 300 ± 10 samples. Use these values in the calculation of the BSFC for each segment. These 300 samples are snapshot readings and no averaging or filtering is allowed.

11.6.5.1 During the BSFC measurement cycle of a test, a stage restart may be conducted for any stage provided the average of any critical parameter, as detailed in Table 3, is projected to be out of the specified range for that stage, and provided the sixth reading of that stage has not been completed. If the sixth reading of any stage is completed, do not conduct a stage restart for that stage. Additionally, if the sixth reading of any stage is completed and a critical parameter average is out of the specified range for that stage, the test is considered invalid. Only one stage restart per stage as shown in Table 5 and no more than 4 stage restarts within a test are allowed. Document each stage restart in the comments section.