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SEQUENCE VE INFORMATION LETTER 99-1

March 1 , 1999

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

**APPROVED BY ASTM D02.B** 6/23/99 **(DATE)**

TO: Sequence VE Mailing List

SUBJECT: Revised Flow Specifications for Fuel Injectors

At the February 11, 1999 Sequence VE Surveillance Panel meeting, the panel approved a motion to revise the fuel flow limits for fuel injectors and to decrease the pressure at which the fuel injectors are flow tested. Sections 7.6.11.3, 7.6.11.6 and 7.10.4.1 have been revised accordingly. These changes are effective February 11, 1999.

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Attachment

7.6.11.3 Using a rig as described in Section 7.5.18.5, place the injector(s) in the rig and turn on the pressure source. After the pressure source is turned on, the test fluid (see 7.7.1) will start to flow through the injector(s). Maintain the test fluid pressure supplied to the injector(s) at 39 ± 0.5 psi (269 ± 3.4 kPa) during the entire test. The maintenance of this pressure is critical because a small change in pressure will have a dramatic effect on the flow rate and spray pattern. Once pressure is set, zero the volume measuring device.

7.6.11.6 The total flow for each injector after the 60 s test shall be between 3.7 and 4.5 oz (109 and 134 $cm^3$) at 39 ± 0.5 psi (269 ± 3.4 kPa) of test fluid pressure. Discard any injector that flows above or below this range.

7.10.4.1 *Fuel Rail Assembly*

(a) The fuel injectors may be used for several tests, provided the spray pattern and flow rate are checked (see 7.6.11). There is currently no specified life of the fuel injectors. Use only fuel injectors which have demonstrated flow rates of 3.7 to 4.5 oz (109 to 134 $cm^3$) at 39 ± 0.5 psi (269 ± 3.4 kPa) for 60 s.