

Bulletin 72

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## EI 1583 6<sup>th</sup> Edition Filter Monitor Elements

**This bulletin is issued as an update to Bulletin 49 of January 2012**

EI 1583 6<sup>th</sup> edition was issued in January 2011 and included additional tests for Super Absorbent Polymer (SAP) media migration and salt resistance. A September 2014 addendum to EI 1583 6<sup>th</sup> edition has now been issued by the Energy Institute. This addendum clarifies certain laboratory testing requirements, rather than introduces any technical changes, and therefore does not require any existing EI 1583 6<sup>th</sup> edition filter monitor models to be re-qualified.

2" Filter Monitor Elements qualified to the 6<sup>th</sup> edition of EI 1583 have been available since 2011 and were required to be used in JIG Joint Ventures before the end of December 2012.

6" Filter Monitor Elements of both out-to-in and in-to-out flow configurations qualified to the 6<sup>th</sup> edition of EI 1583 are now available from a number of manufacturers. Both JIG and IATA are supportive of the use of 6<sup>th</sup> edition elements as soon as possible.

The use of monitor elements requires that a number of conditions shall be in place:

- Monitor elements shall not be used where the fuel contains fuel system icing inhibitor (FSII).
- A filter monitor should be operated as closely as possible to its rated flow. Element and vessel sizing therefore needs to be carefully considered for each application.
- The move from EI 1583 4<sup>th</sup> edition elements to EI 1583 6<sup>th</sup> edition elements shall ensure that all elements in the vessel are EI 1583 6<sup>th</sup> edition after the change. There shall be no mixing of elements from different manufacturers.
- Monitor elements shall be replaced if the differential pressure reaches 1.5 bar (22psi) at any time during operation or when corrected to the maximum operating flow rate through the filter vessel as currently installed.
- Monitor elements shall also be replaced if the flow rate falls to an unacceptably low level; if filter membrane tests show abnormal results; if unusual sediment or more than a trace of water is found downstream of the vessel; if there is a sudden drop in differential pressure without any obvious cause being found; or after the maximum service life recommended by the manufacturer.

For further information, refer to the filtration appendix in the JIG Standards and EI 1550.

### Action for JIG Joint Ventures

JV Managers shall ensure that all filter vessels with 6" monitors (all flow formats) at their location are fitted with 6<sup>th</sup> edition monitor elements before the end of December 2014.

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