FOREWORD

This publication provides recommended minimum performance and mechanical specifications for the design of aviation fuel hydrant system pit valves and associated couplers.

This publication also specifies requirements that need to be met to achieve universal interchangeability between components of various manufacturers and requirements for optional features which component manufacturers may be requested by users to provide.

This publication has been produced by the EI Aviation Equipment Sub-Committee. It replaces EI Specification 1584 third edition, April 2001 and includes the EI Safety Bulletin EI08/026 *Aviation fuel hydrant pit valves and hydrant pit couplers*, October 2008.

The main revisions incorporated in this 4th edition of EI 1584 are:

- Providing greater emphasis on the need for universal interchangeability between hydrant pit valve and hydrant pit coupler combinations between any manufacturer.
- Including the requirement for the hydrant pit valve manufacturer to provide detailed instructions for the mounting of the valve to hydrant riser flanges.
- Specifying the maximum permissible wear measured across any point on the diameter of the hydrant pit valve adapter ring and the distance from the top seal face of the adapter ring to the underside of the 45 ° angled face that a pit valve wear gauge shall be able to assess.
- Clarifying that standard fittings are to be attached to the hydrant pit coupler during the hydrant coupler shock resistance test.
- An expansion of the requirements for production quality assurance, inspection and acceptance and shipment.
- Deletion of Annex C (post-impact recommendations can now be found in EI 1560).
- Deletion of Annex E inspection and testing of hydrant pit valves.

The qualification testing requirements that were included in the 3rd edition of this publication have not been significantly amended in this 4th edition. Therefore existing qualifications to the 3rd edition are recognised as also meeting the requirements of this 4th edition.

It is possible that this publication will have a wider scope of usage and will encompass differing operating practices and safety and environmental legislation. Therefore, this publication should be read in conjunction with appropriate national and local statutory operating requirements. It is recommended that, if procedures defined in this publication are more stringent than those at the point of use, then this specification should be followed.

Whilst the use of hydrant pit valve assemblies designed for use with 150 mm (6 in.) hydrant riser flanges is preferred, requirements for valves that are able to mate with other flanges are also included.

The requirements of this publication are not retroactive. Users of existing equipment should decide what action to take if equipment in current use does not conform to the requirements of this edition. Due consideration should be taken of the safety implications of non-conformance with this specification.

Note: It is recommended that pit couplers that conform to the requirements of this edition are only used in combination with pit valves that also conform to the requirements of this edition. At some locations into-plane refuelling companies may need to discuss this with hydrant operators.