Appendix E
Aircraft Industries Internal Test Methods and Guidelines

As written, Federal Aviation Administration (FAA) test procedures for meeting the requirements set forth in Federal Aviation Regulation (FAR) 25 sometimes contain incomplete documentation (e.g., the firewall test). In order to establish standardized guidelines for these test procedures, including more detailed instructions and safety precautions, individual aircraft manufacturers have established some of their own internal documentation. This documentation, as well as having detailed instructions, is at times also used to certify different materials to applicable FARs. Table E-1 contains a listing of each FAR fire test and the equivalent company internal test method document number, as well as the applicable American Society for Testing and Materials (ASTM) standard, if any. Other testing related to fire safety (such as toxicity) is also listed. These documents are normally available from the listed company.

Table E-1. Industry Test Documentation

FAA Regulation		Industry Test Documentation						
Burn Test Description	**FAR Paragraph No.**	**Airbus**	**British Aerospace**	**Boeing**	**Douglas**	**Shanghai Aircraft Research Institute**	**Daimler-Benz Aerospace**	**ASTM**
Piping/hose assemblies	25.1183 (a)		ISO/DIS 2685					
Fire zone wire	25.1359 (b)		ISO/DIS 2685		MIL-C-25038			
Wire insulation	25.1359 (d)	ATS 1000.001	BACM 1555A		DMS 1501		ATS 1000.001	ASTM-F 777
60-second vertical	25.853 (a)	ATS 1000.001	BACM 1551A	BSS 7230 F1	DMS 1510		ATS 1000.001	ASTM F 501
OSU heat release	25.853 (a-1)		BAEP 4508	BSS 7322	DMS 2277		W-TE335-304/87	ASTM Modified E 906*
12-second vertical	25.853 (b)	ATS 1000.001	BACM 1555A	BSS 7230 F2	DMS 1511		ATS 1000.001	ASTM F 501
2.5-in/min horizontal	25.853 (b-2)	ATS 1000.001	BACM 1555A	BSS 7230 F3	DMS 1505		ATS 1000.001	ASTM F 776
4-in/min horizontal	25.853 (b-3)	ATS 1000.001	BACM 1555A	BSS 7230 F4	DMS 1507		ATS 1000.001	ASTM F 776
Oil burner seats	25.853 (c)		BAEP 4508	BSS 7303	DMS 2274	HB 7263	TBD	*
Fire containment	25.853(d)		BACM 1555A	Document No. D6T11679	DMS 1513			
3 second, 45 degree	25.855 (a)	ATS 1000.001	BACM 1555A	BSS 7230 F5	DMS 1508		ATS 1000.001	ASTM F 1103
Oil burner, cargo liner	25.855 (a-1)		BAEP 4508	BSS 7323	DMS 2273		TBD	*
Radiant heat test	TSO-C69a, Appendix 2	TSO		BSS 7315				ASTM F 828
Other NBS smoke	25.853 (a-1)	ATS 1000.001	BAEP 4625	BSS 7238	DMS 1500		ATS 1000.001	ASTM F 814
Toxicity		ATS 1000.001	BAEP 4623	BSS 7239	DMS 2294	HB 7066	ATS 1000.001	
Lot							ASTM D 2863	ASTM D 2863

*ASTM test method being written by subcommittee F7.06.