

Aeroblaze Laboratory Inc.

12819 Harmon Rd. Bldg 575 Fort Worth, TX 76177 USA

## Report # 2722.1

Powerplant Fire Penetration Test Results								
Regulation:	14 CFR 25.1193(d)	Criteria:	Advisory Circula		Procedure:			
-		I				1		
Customer Information				Sample Notes				
CellBlock Fire Containment Systems 261 Maverick St Boston, MA 02128				CellBlock Fire Panel Substrate				
Flame Temperature: 2000 °F ± 100 °F   Heat Flux Density: 9.3 Btu/ft <sup>2</sup> -sec or 4,500 BTU/hr minimum								
Sample	Flame Time	e (min:sec)	Burnt	hrough? (Yes,	/No)	Backside Igniti	on? (Yes/No)	
1	30:0	0		No		No		
	Accontonce	Critoria			Pocult	9 Decignation		
Acceptance Criteria The sample must withstand flame penetration and not exhibit backside ignition for the required test time. »Fire-Resistant: 5 minutes »Fire-Proof: 15 minutes				X XF	Result & Designation      X    PASS    FAIL      X    Fire-Resistant    X    Fire-Proof			
Notes:								
	exposed to flame f oke during testing.	or double the	required 15 min	nutes for the	e fire proof de:	signation. Sampl	e did not	
The results of this test report have been obtained in compliance with the listed requirements and/or specifications. Amendment levels are that of the current amendments on the date testing was performed, unless otherwise specified. Aeroblaze applies a pass/fail criteria based on the outcome of the test regardless of the measurement uncertainty, except in cases where the customer specifically requests that measurement uncertainty be applied. This test report shall not be reproduced, except in full, without written approval from Aeroblaze Laboratory Inc. The test results relate only to the items tested.								
-	Tested by: Gregory Thomas 04- Lab Engineer			Approval		) <u> </u>	04-Feb-21	
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## **Powerplant Fire Penetration Test Results Regulation:** 14 CFR 25.1193(d) Criteria: Advisory Circular No. 20-135 **Procedure:** DOT/FAA/AR-00/12, Chapter 12 FLAME CALIBRATION SUMMARY Calibration Type: RTCA DO-160G AEROBLAZE **Result: Pass** Date / Time: 02/02/2021 14:09 Average of Flame Profile Flame Temperature (°F) all TCs (°F) 2200-2250-2250-2180-2200-2200at specified 2150-2150-2160-2100-2100-£ 2140-2050-2050-2000-2120-2000-2100-1950-1950-1900-1900-2080-2060-1850-1850-1800-1800-1750-1750 2040-2020 2078 2123 2112 2168 2139 2125 2111 2107 2000-Maximum 50 100 150 200 250 300 350 400 450 500 550 600 Average 2051 2095 2089 2138 2106 2089 2068 2091 ò Flame Position (in. x 1e-2) Minimum 2007 2062 2056 2107 2067 2044 2021 2065 2175 🗹 Hi Lmt 🖂 2150 🗹 Lo Lmt 2125 🗹 Avg ~ 2100 TC1 2075 ✓ TC2 £ 2050-🗹 ТСЗ 2025 ✓ TC4 2000-TC5 1975-☑ тс6 $\sim$ 1950 ☑ ТС7 1925 1900 1875-1850-7.5 10 12.5 15 17.5 20 22.5 25 27.5 30 32.5 35 37.5 40 42.5 45 47.5 50 52.5 55 57.5 60 2.5 5 Time (sec) Calibration Type: SAE AS5127-2B **AEROBLAZE** Result: Pass Date / Time: 02/02/2021 14:10 Heat Flux (BTU/ft<sup>2</sup>s) 12.25 13-12 11.75 12-11.5 11-11.25 Heat Flux (BTU/ft<sup>2</sup>s) 11 10-10.75 9-10.5 10.25 8-10 9.75 9.5 9.25-<sup>|-</sup>0 5 7.5 10 12.5 15 17.5 20 22.5 25 27.5 30 32.5 35 37.5 40 42.5 45 47.5 50 52.5 55 57.5 60 2.5 12.02 Maximum Time (sec) 10.65 Average 9.61 Minimum Upper Limit 🖂 🗹 Lower Limit 🖂 🗹 Heat Flux