STATEMENT OF BASIS

For the issuance of Draft Air Permit # 1876-AOP-R13 AFIN: 60-00617

1. PERMITTING AUTHORITY:

Arkansas Department of Environmental Quality 5301 Northshore Drive North Little Rock, Arkansas 72118-5317

2. APPLICANT:

Dassault Falcon Jet Corp. 3801 East 10th Street Little Rock, Arkansas 72202

3. PERMIT WRITER:

John Mazurkiewicz

4. NAICS DESCRIPTION AND CODE:

NAICS Description: Aircraft Manufacturing

NAICS Code: 336411

5. ALL SUBMITTALS:

The following is a list of ALL permit applications included in this permit revision.

Date of Application	Type of Application	Short Description of Any Changes
	(New, Renewal, Modification,	That Would Be Considered New or
	Deminimis/Minor Mod, or	Modified Emissions
	Administrative Amendment)	
1/27/2020	Administrative Amendment	Add a Laser Cutter as an A-13
		Insignificant Activity
3/6/2020	Minor Modification	Split the existing Service Center—
		Mobile Paint Booth (SN-102) into the
		Service Center—Fuel Tank Coating
		with Mobile Paint Booth (SN-102) and
		Facility-Wide—Miscellaneous Touch-
		Up (SN-103) to allow touch-up painting
		operations to be performed throughout
		the facility.

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6. REVIEWER'S NOTES:

The application for Administrative Amendment was approved by the Division in a letter dated January 29, 2020. The Minor Modification was approved in a letter dated March 17, 2020.

7. COMPLIANCE STATUS:

The following summarizes the current compliance of the facility including active/pending enforcement actions and recent compliance activities and issues.

There are no active or pending air enforcement actions or issues at this time. The last inspection was conducted on October 10, 2019. No areas of concern or compliance issues were noted. A review of ECHO revealed no CAA violations in the last twelve quarters.

8. PSD/GHG APPLICABILITY:

- a) Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? No. If yes, were GHG emission increases significant? N/A.
- b) Is the facility categorized as a major source for PSD? No.
- Single pollutant ≥ 100 tpy and on the list of 28 or single pollutant ≥ 250 tpy and not on list

If yes for 8(b), explain why this permit modification is not PSD. N/A.

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
SN-80	PM_{10} , VOC, CO, NO_X , HAPs	NSPS IIII, NESHAP ZZZZ
SN-81	HAPs	NESHAP ZZZZ
SN-82	HAPs	NESHAP CCCCCC
Facility	HAPs	NESHAP HHHHHH
Facility	HAPs	NESHAP WWWWWW

10. PERMIT SHIELD – TITLE V PERMITS ONLY:

Did the facility request a permit shield in this application? No. (Note - permit shields are not allowed to be added, but existing ones can remain, for minor modification applications or any Regulation 18 requirement.)

11. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

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12. AMBIENT AIR EVALUATIONS:

The following are results for ambient air evaluations or modeling.

a) NAAQS

A NAAQS evaluation is not required under the Arkansas State Implementation Plan, National Ambient Air Quality Standards, Infrastructure SIPs and NAAQS SIP per Ark. Code Ann. § 8-4-318, dated March 2017 and the ADEQ Air Permit Screening Modeling Instructions.

b) Non-Criteria Pollutants:

The non-criteria pollutants listed below were evaluated. Based on Department procedures for review of non-criteria pollutants, emissions of all other non-criteria pollutants are below thresholds of concern.

1st Tier Screening (PAER)

Estimated hourly emissions from the following sources were compared to the Presumptively Acceptable Emission Rate (PAER) for each compound. The Department has deemed the PAER to be the product, in lb/hr, of 0.11 and the Threshold Limit Value (mg/m³), as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

Pollutant	TLV (mg/m ³)	$PAER (lb/hr) = 0.11 \times TLV$	Proposed lb/hr	Pass?
Acrolein	2.29E-01	2.52E-02	3.39E-04	Yes
Acetone	1.19E03	1.31E02	4.95E01	Yes
Arsenic	1.00E-02	1.10E-03	1.50E-05	Yes
Beryllium	5.00E-05	5.50E-06	9.00E-07	Yes
Cadmium	1.00E-02	1.10E-03	8.25E-05	Yes
Chromium Compounds	5.00E-01 ¹ 5.00E-02 ² 1.00E-02 ³	5.5E-02 5.5E-03 1.1E-03	1.05E-04 6.00E-03 1.50E-04	No
Cobalt	2.00E-02	2.20E-03	6.30E-06	Yes
Hexamethylene Diisocyanate	3.44E-02	3.78E-03	1.20E-02	No
Manganese	2.00E-01	2.20E-02	2.85E-05	Yes

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Pollutant	TLV (mg/m ³)	$PAER (lb/hr) = 0.11 \times TLV$	Proposed lb/hr	Pass?
Mercury	2.50E-02	2.75E-03	1.95E-05	Yes
POM	2.00E-01	2.20E-02	6.62E-06	Yes
Selenium	2.00E-01	2.20E-02	1.80E-06	Yes
Toluene Diisocyanate	3.56E-02	3.90E-03	3.24E-03	Yes

Metal and Cr III compounds

2nd Tier Screening (PAIL)

AERMOD air dispersion modeling was performed on the estimated hourly emissions from the following sources, in order to predict ambient concentrations beyond the property boundary. The Presumptively Acceptable Impact Level (PAIL) for each compound has been deemed by the Department to be one one-hundredth of the Threshold Limit Value as listed by the ACGIH.

Pollutant	PAIL $(\mu g/m^3) = 1/100$ of Threshold Limit Value	Modeled Concentration (μg/m³)	Pass?
Chromium Compounds	5.00E-01*	9.77E-02	Yes
Hexamethylene Diisocyanate	3.44E-01	2.28E-01	Yes

^{*}Water-soluble Cr VI compounds

c) H₂S Modeling: N/A

CALCULATIONS: 13.

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
01	Mass Balance	VOC 5.1 lb/hr			
08A 08B 08C 08D 08E 08F	Mass Balance	VOC 19.7 lb/hr			
09	Mass Balance	VOC			

Water-soluble Cr VI compounds
 Insoluble Cr VI compounds

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
		10.2 lb/hr			
10	Mass Balance	VOC			
		12.8 lb/hr VOC			
12	Mass Balance	14.4 lb/hr			
17	Mass Balance	VOC 2.2 lb/hr			
18	Mass Balance	VOC 2.2 lb/hr			
19	Mass Balance	VOC 2.2 lb/hr			
25	Mass Balance	VOC 59.3 lb/hr			
26A 26B	Mass Balance	VOC 5.0 lb/hr			
27	Mass Balance	VOC 1.7 lb/hr			
33	TANKS 4.0.9d	VOC 0.6 lb/hr			
34	TANKS 4.0.9d	VOC 0.6 lb/hr			
35	TANKS 4.0.9d	VOC 0.3 lb/hr			
37	Mass Balance	VOC 17.9 lb/hr			
39	Mass Balance	VOC 64.0 lb/hr			
40	Mass Balance	VOC 64.0 lb/hr			
42	Mass Balance	VOC 9.9 lb/hr			
43	Mass Balance	VOC 9.9 lb/hr			
45	Mass Balance	VOC 9.9 lb/hr			
46	Mass Balance	VOC 9.9 lb/hr			
48	Mass Balance	VOC 1.8 lb/hr			
49	Mass Balance	VOC 12.3 lb/hr			
50	Mass Balance	VOC 12.8 lb/hr			

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SN	Emission Factor Source	Emission Factor	Control	Control Equipment	Comments
	(AP-42, testing, etc.)	(lb/ton, lb/hr, etc.)	Equipment	Efficiency	
50	Mass Dalaria	VOC			
59	Mass Balance	9.9 lb/hr			
60	Mass Balance	VOC			
		9.9 lb/hr VOC			
61	Mass Balance	9.9 lb/hr			
62	Mass Balance	VOC			
		9.9 lb/hr VOC			
63	Mass Balance	9.9 lb/hr			
64	Mass Balance	VOC			
	Wass Balance	9.9 lb/hr			
65	Mass Balance	VOC 42.6 lb/hr			
	M D 1	VOC			
66	Mass Balance	42.6 lb/hr			
67	Mass Balance	VOC			
		1.8 lb/hr VOC			
68	Mass Balance	1.8 lb/hr			
69	Mass Balance	VOC			
		0.2 lb/hr VOC			
70	Mass Balance	0.2 lb/hr			
71	Mass Balance	VOC			
/ 1	Wass Balance	3.4 lb/hr			
72	Mass Balance	VOC 3.4 lb/hr			
73	Mass Balance	VOC			
73	Wass Balance	3.4 lb/hr			
74	Mass Balance	VOC 2.9 lb/hr			
76	Mass Balance	VOC			
76	Mass Balance	0.2 lb/hr			
77	Mass Balance	VOC 0.2 lb/hr			
		PM/PM ₁₀			
		7.6 lb/MMcf			
	AP-42 Section 1 - Tables 1.4-1	SO ₂ 0.6 lb/MMcf			
78	through 1.4-4	VOC			
		5.5 lb/MMcf			
		CO			
		84 lb/MMcf			

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
		NO_X			
		100 lb/MMcf			
79	Mass Balance	VOC 42.6 lb/hr			
		PM/PM ₁₀			
		0.3 g/kW-hr			
		SO_2			
		0.00205			
		g/kW-hr			158 hp
80	AP-42 Section 3 - Tables 3.3-1,	VOC			500 hr/yr
	3.3-2, and certification	0.00205			operation
		g/kW-hr			operation
		CO			
		5.0 g/kW-hr NO _X			
		4.0 g/kW-hr			
		PM/PM ₁₀			
		0.0022 lb/hp-			
		hr			
		SO_2			
		0.00205			
		lb/hp-hr			Two Engines
81	AP-42 Section 3 - Table 3.3-1	VOC			183 hp, each
	and 3.3-2	0.00247			500 hr/yr
		lb/hp-hr CO			operation
		0.00668			
		lb/hp-hr			
		NO _X			
		0.031 lb/hp-hr			
82	TANKS 4.0.9d	VOC			
	TANKS 4.0.90	11.9 lb/hr			
83A	Mass Balance	VOC			
83B	Wides Bulance	1.4 lb/hr			
84A	Mass Balance	VOC			
84B		1.0 lb/hr			
85A 85B	Mass Balance	VOC 12.1 lb/hr			
86A		VOC			
86B	Mass Balance	12.1 lb/hr			
		VOC			
87	Mass Balance	1.9 lb/hr			
88	Mass Balance	VOC			
00	Mass Dalance	1.9 lb/hr			

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
89	Mass Balance	VOC 1.9 lb/hr			
90	Mass Balance	VOC 1.9 lb/hr			
91	Mass Balance	VOC 10.3 lb/hr			
92	Mass Balance	VOC 12.3 lb/hr			
93 94 95	Mass Balance	VOC 5.7 lb/hr			
96A 96B 96C 96D 96E	Mass Balance	VOC 2.8 lb/hr			
97	Mass Balance	VOC 4.9 lb/hr			
98	Mass Balance	VOC 4.9 lb/hr			
99	Mass Balance	VOC 1.0 lb/hr			
100A 100B	Mass Balance	VOC 2.0 lb/hr			
101A	AP-42 Section 12 - Table 12.20-2	PM/PM ₁₀ 4.2 gr/hr-ft ²			
101B	AP-42 Section 12 - Table 12.20-2	PM/PM ₁₀ 4.2 gr/hr-ft ²			
102	Mass Balance	PM/PM ₁₀ 0.01 lb/hr VOC 0.2 lb/hr	Mobile Paint Booth	PM/PM ₁₀ 99.78% VOC 90%	
103	Mass Balance	PM/PM ₁₀ 0.8 lb/hr VOC 0.7 lb/hr			

14. TESTING REQUIREMENTS:

The permit does not require stack testing.

15. MONITORING OR CEMS:

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This permit does not require monitoring devices or CEMS.

16. RECORDKEEPING REQUIREMENTS:

The following are items (such as throughput, fuel usage, VOC content, etc.) that must be tracked and recorded.

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
facility wide	VOC content and purchases of VOC containing materials	165.0 tpy of VOC emissions	monthly	Y
facility wide	HAP content and purchases of HAP containing materials	9.6 tpy - single HAP 22.0 tpy - combined	monthly	N
facility wide	VOC and HAP credit, amount of VOC and HAP shipped off-site to a Hazardous Disposal Facility	There is no applicable limit for this requirement.	quarterly	N
facility wide	VOC and HAP credit, amount of VOC and HAP contained in materials that have exceeded their shelf life	There is no applicable limit for this requirement	monthly	N
facility wide	natural gas usage	150 MMscf per consecutive twelve month period	monthly	N
facility wide	Surface Coating Operation	Annual Notification of Changes Report	N/A	N
facility wide	Paint Stripping Operations	Less than 1 ton per year of methyl chloride	annually	N
facility wide	Records described in § 63.11177	N/A	as necessary	N
facility wide	Electrolytic Operations	Maintain tank cover 95% of	daily	N

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
		electrolytic process time		
facility wide	Polishing Operations	Capture and control system manufacturer's specifications and instructions and inspections	N/A	N
facility wide	Electrolytic Operations and Polishing Operations	Annual Compliance Certification Report	N/A	N
80	Hours of Operation	500 hr/yr	monthly	Y
	Fuel Specification	Maximum 15 ppm wt% S and either a minimum cetane index of 40 or a maximum aromatic content of 35% by volume	Per Fuel Shipment	N
81	Hours of Operation	500 hr/yr	monthly	Y
82	Monthly Throughput of Gasoline per MACT 6C	10,000 gal/mo 120,000 gal/yr	monthly	N

17. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
All Sources*	5%	§18.501	Natural gas only
80, 81	20%	§19.503(B)	Daily observation for events lasting 24 hours or more otherwise annual observation

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18. DELETED CONDITIONS:

Former SC	Justification for removal
	None.

19. GROUP A INSIGNIFICANT ACTIVITIES:

The following is a list of Insignificant Activities including revisions by this permit.

	Crown A			Emission	s (tpy)			
Source Name	Group A Category	PM/PM ₁₀	SO_2	VOC	СО	NO_x	HA	Ps
	Category	1 1/1 1/10	\mathbf{SO}_2	VOC	CO	NO _X	Single	Total
Mold Machine Shop (Manufacturing Shop) Nat. Gas Fired Curing Oven	A-1	0.02	0.002	0.02	0.25	0.30	0.02	0.02
Mold Machine Shop (Manufacturing Shop) Nat. Gas Fired Curing Oven	A-1	0.04	0.003	0.03	0.43	0.52	0.03	0.03
Machine Shop (Manufacturing Shop) Nat. Gas Fired Oven	A-1	0.03	0.003	0.02	0.36	0.43	0.02	0.02
Wastewater Evaporator	A-1	0.05	0.004	0.04	0.54	0.64	0.04	0.04
Wastewater Evaporator	A-1	0.02	0.002	0.02	0.27	0.32	0.02	0.02
Natural gas fired pressure washers (2)	A-1	0.03	0.002	0.02	0.30	0.36	0.02	0.02
Total	A-1	0.19	0.016	0.15	2.15	2.57	0.15	0.15
Diesel Storage Tank (1,000 gal)	A-3	0.001	-	-	ı	ı	0.001	0.001
FAA Burn Test Room	A-13	0.10	-	-	-	-	-	-
Cabinet Shop - Vacuum Filter No. 1	A-13	0.03	-	-	-	-	-	-

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	Caova A			Emission	s (tpy)			
Source Name	Group A Category	PM/PM ₁₀	SO_2	VOC	СО	NO _x	HA	
	Cutogory	1 112/1 11110	302	, 50		110 _X	Single	Total
Cabinet Shop - Vacuum Filter No.2	A-13	0.03	-	-	-	-	-	-
Production Warehouse - Vacuum Filter	A-13	0.03	-	-	-	-	-	-
Machine Shop (Manufacturing Shop) drilling and cutting	A-13	-	-	0.28	-	-	-	-
Gel-Coat Booth	A-13	-	-	1.86	-	-	0.63	0.96
Cabinet Shop - Polish Room, Detail Polish Room and Buffing Room	A-13	0.08	-	-	-	-	-	-
Welding Inspection Booth	A-13	-	-	0.09	-	-	-	-
Wastewater Aeration	A-13	-	-	-	-	-	-	-
Machine Shop (Manufacturing Shop) Welding	A-13	-	-	-	-	-	-	-
Plating Shop - Diffuse Particulate Filter	A-13	Filtered air is blown back into the Plating Shop. No emissions are released to the atmosphere from the diffuse particulate filter.						
Service Center- Dust Collector/Filter	A-13	Filtered air is blown back into the Service Center. No						

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	Cassa A			Emission	s (tpy)			
Source Name	Group A Category	PM/PM ₁₀	SO_2	VOC	СО	NO _x	HA	Ps
	Calegory	F 1 V1 / F 1 V1 ₁₀	302	VOC		NO _x	Single	Total
		emissions are released to the atmosphere by the dust collector/filter.						
Cabinet Shop - Sanding Room Baghouses (2)	A-13	0.25	-	-	-	-	-	-
Cabinet Shop - Six Diffuse Particulate Filters	A-13	Filtered air is blown back into the Cabinet Shop. No emissions are released to the atmosphere from the diffuse particulate filters.						
Cabinet Shop - Dust Collector with Fabric Filter	A-13	0.15	-	-	-	-	-	-
Manufacturing Area- Dust Collector with Fabric Filter	A-13	0.04	-	-	-	-	-	-
Headliner Shop - Sanding Booths (2)	A-13	0.08	-	-	-	-	-	-
OptiFlex Laser Cutter	A-13	0.78	-	0.23	-	-	0.23	0.23
Total	A-13	1.57	-	2.46	-	-	0.86	1.19

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20. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

The following is a list of all active permits voided/superseded/subsumed by the issuance of this permit.

Permit #
1876-AOP-R12



Facility Name: Dassault Falcon Jet Corp.

Permit Number: 1876-AOP-R13

AFIN: 60-00617

\$/ton factor	23.93	Annual Chargeable Emissions (tpy)	250.5
Permit Type	Minor Mod	Permit Fee \$	500
Minor Modification Fee \$	500		
Minimum Modification Fee \$	1000		
Renewal with Minor Modification \$	500		
Check if Facility Holds an Active Minor Source or	Minor		
Source General Permit			
If Hold Active Permit, Amt of Last Annual Air Permit Invoice	\$ 0		
Total Permit Fee Chargeable Emissions (tpy)	3.1		
Initial Title V Permit Fee Chargeable Emissions (t	py)		

HAPs not included in VOC or PM:

Chlorine, Hydrazine, HCl, HF, Methyl Chloroform, Methylene Chloride, Phosphine, Tetrachloroethylene, Titanium Tetrachloride

Air Contaminants:

All air contaminants are chargeable unless they are included in other totals (e.g., H2SO4 in condensible PM, H2S in TRS, etc.)

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
PM		1.3	4.4	3.1		
PM_{10}		1.3	4.4	3.1	3.1	4.4
PM _{2.5}		0	0	0		
SO_2		0.4	0.4	0	0	0.4
VOC		165	165	0	0	165
СО		7.4	7.4	0		
NO_X		10.7	10.7	0	0	10.7
Total HAPs		22	22	0		

Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
~	70	70	0	0	70