



State of Utah

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Governor

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Department of
Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN104830015-24

January 6, 2025

Jody Kinney
FC Printing, Inc.
2580 South Decker Lake Boulevard, Suite 200
Salt Lake City, UT 84119
jkinney@advantageinc.com

Dear Mr. Kinney:

Re: Approval Order: Administrative Amendment to Approval Order DAQE-AN104830014-22 to
Replace Existing Printing Presses under R307-401-12
Project Number: N104830015

The attached Approval Order (AO) is issued pursuant to the Notice of Intent (NOI) received on November 1, 2024. FC Printing, Inc. must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **Christine Bodell**, who can be contacted at (385) 290-2690 or cbodell@utah.gov. Future correspondence on this AO should include the engineer's name as well as the DAQE number shown on the upper right-hand corner of this letter.

Sincerely,

Bryce C. Bird
Director

BCB:CB:jg

cc: Salt Lake County Health Department

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

APPROVAL ORDER
DAQE-AN104830015-24
Administrative Amendment to Approval Order
DAQE-AN104830014-22 to Replace Existing Printing Presses
under R307-401-12

Prepared By
Christine Bodell, Engineer
(385) 290-2690
cbodell@utah.gov

Issued to
FC Printing, Inc. - Printing Facility

Issued On
January 6, 2025

Issued By

A handwritten signature in black ink, appearing to read "Bryce C. Bird".

Bryce C. Bird
Director
Division of Air Quality

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GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name

FC Printing, Inc.

Source Name

FC Printing, Inc. - Printing Facility

Mailing Address

2580 South Decker Lake Boulevard, Suite 200
Salt Lake City, UT 84119-2110

Physical Address

2580 South Decker Lake Boulevard, Suite 200
Salt Lake City, UT 84119-2110

Source Contact

Name: Jody Kinney
Phone: (801) 428-3927
Email: jkinney@advantageinc.com

UTM Coordinates

419,632 m Easting
4,507,460 m Northing
Datum NAD83
UTM Zone 12

SIC code 2752 (Commercial Printing, Lithographic)

SOURCE INFORMATION

General Description

FC Printing, Inc. (FC) is a printing facility located in Salt Lake City. FC operates five (5) printing presses at this location. On-site operations include prepping, cleaning, and coating printing plates with a water solution containing mild acids and wetting agents and then continuous application of inks. Sheet-fed cold-set printing occurs on both sides simultaneously. The final product dries chemically, without heat. There are VOC emissions from the printing inks and from the solvent used to clean the presses.

NSR Classification

Administrative Amendment

Source Classification

Located in Northern Wasatch Front O3 NAA, Salt Lake City UT PM_{2.5} NAA, Salt Lake County SO₂ NAA
Salt Lake County
Airs Source Size: B

Applicable Federal Standards

None

Project Description

FC is currently permitted to operate five (5) coldset sheet-fed printing presses (see Approval Order DAQE-AN104830014-22, Equipment ID II.A.2). FC is replacing the existing printing presses with four (4) new coldset sheet-fed printing presses. VOC and HAP emissions on site result from printing ink and solvent usage.

FC is not proposing to increase printing ink or solvent usage, nor is FC requesting to increase any production and/or operational limits. No emissions are increasing. This project meets the requirements of UAC R307-401-12 Reduction in Air Pollutants and does not require a public comment period.

SUMMARY OF EMISSIONS

The emissions listed below are an estimate of the total potential emissions from the source. Some rounding of emissions is possible.

Criteria Pollutant	Change (TPY)	Total (TPY)
Carbon Monoxide	0	0.00
Nitrogen Oxides	0	0.00
Particulate Matter - PM ₁₀	0	0.11
Sulfur Dioxide	0	0.00
Volatile Organic Compounds	0	7.25

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Generic HAPs (CAS #GHAPS)	0	54
	Change (TPY)	Total (TPY)
Total HAPs	0	0.03

SECTION I: GENERAL PROVISIONS

I.1	All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
I.2	The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
I.3	Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]
I.4	All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Director or Director's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401-8]
I.5	At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]

I.6	The owner/operator shall comply with UAC R307-107. General Requirements: Breakdowns. [R307-107]
I.7	The owner/operator shall comply with UAC R307-150 Series. Emission Inventories. [R307-150]
I.8	The owner/operator shall submit documentation of the status of construction or modification to the Director within 18 months from the date of this AO. This AO may become invalid if construction is not commenced within 18 months from the date of this AO or if construction is discontinued for 18 months or more. To ensure proper credit when notifying the Director, send the documentation to the Director, attn.: NSR Section. [R307-401-8]

SECTION II: PERMITTED EQUIPMENT

II.A THE APPROVED EQUIPMENT

II.A.1	FC Printing Facility
II.A.2	Four (4) Coldset Sheet-fed Printing Presses (New) Max Sheet Size: 720 mm x 1020 mm, each Max Sheet Rate: 15,000/hour, each
II.A.3	One (1) Paper Scrap and Dust Collection System Model: Torit DownFlo II

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	VOC & HAP Requirements
II.B.1.a	The owner/operator shall not emit more than the following from evaporative sources (painting, printing, coating, and/or cleaning) on site: A. 7.25 tons per rolling 12-month period of VOCs B. 0.027 tons per rolling 12-month period of all HAPs combined. [R307-401-8]
II.B.1.a.1	The owner/operator shall calculate a new 12-month total by the first day of each month using data from the previous 12 months. The owner/operator shall use a mass-balance method to calculate emissions from evaporative sources. The owner/operator may use the following equations with applicable units to comply with the mass-balance method: VOCs = [% VOCs by Weight/100] x [Density] x [Volume Consumed] HAP = [% HAP by Weight/100] x [Density] x [Volume Consumed] [R307-401-8]

II.B.1.a.2	The owner/operator shall use a mass-balance method to quantify any amount of VOCs and HAPs reclaimed. The owner/operator shall subtract the amount of VOCs and HAPs reclaimed from the quantities calculated above to provide the monthly total emissions of VOCs and HAPs. [R307-401-8]
II.B.1.a.3	<p>The owner/operator shall keep records each month of the following:</p> <ul style="list-style-type: none"> A. The name (as per SDS) of the VOC- and HAP-emitting material B. The maximum percent by weight of VOCs and each HAP in each material used C. The density of each material used D. The volume of each VOC- and HAP-emitting material used E. The amount of VOCs and the amount of each HAP emitted from each material F. The amount of VOCs and the amount of each HAP reclaimed and/or controlled from each material G. The total amount of VOCs, the total amount of each HAP, and the total amount of all HAPs combined emitted from all materials (in tons). <p>[R307-401-8]</p>
II.B.1.b	The owner/operator shall not cause VOCs to be spilled, discarded, stored in open containers, or handled in any other manner that would reasonably result in greater evaporation of VOCs. This shall include the requirement to store all VOC-laden cleaning rags in closed, fireproof containers at all times. [R307-325, R307-401-8]
II.B.1.c	The owner/operator shall comply with all applicable requirements of UAC Rule R307-351 (Graphic Arts), including material VOC content limits. [R307-351, R307-401-8]
II.B.2	Printing Facility
II.B.2.a	The owner/operator shall not allow visible emissions from any stationary point or fugitive emission source associated with the source or its control facilities to exceed 10% opacity. [R307-401-8]
II.B.2.a.1	Opacity observations of emissions from stationary sources shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9. [R307-401-8]

PERMIT HISTORY

This Approval Order shall supersede (if a modification) or will be based on the following documents:

Supersedes
Incorporates

AO DAQE-AN104830014-22 dated October 11, 2022
NOI dated November 1, 2024

ACRONYMS

The following lists commonly used acronyms and associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by Environmental Protection Agency to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CMS	Continuous monitoring system
CO	Carbon monoxide
CO ₂	Carbon Dioxide
CO _{2e}	Carbon Dioxide Equivalent - Title 40 of the Code of Federal Regulations Part 98, Subpart A, Table A-1
COM	Continuous opacity monitor
DAQ/UDAQ	Division of Air Quality
DAQE	This is a document tracking code for internal Division of Air Quality use
EPA	Environmental Protection Agency
FDCP	Fugitive dust control plan
GHG	Greenhouse Gas(es) - Title 40 of the Code of Federal Regulations 52.21 (b)(49)(i)
GWP	Global Warming Potential - Title 40 of the Code of Federal Regulations Part 86.1818-12(a)
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/YR	Pounds per year
MACT	Maximum Achievable Control Technology
MMBTU	Million British Thermal Units
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO _x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM ₁₀	Particulate matter less than 10 microns in size
PM _{2.5}	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO ₂	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
TPY	Tons per year
UAC	Utah Administrative Code
VOC	Volatile organic compounds