



State of Utah

SPENCER J. COX
Governor

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Lieutenant Governor

Department of
Environmental Quality

Tim Davis
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN105100012-25

September 11, 2025

Lynn Grundvig
Deluxe Manufacturing Operations
5820 West Harold Gatty Drive
Salt Lake City, UT 84116
lynn.grundvig@deluxe.com

Dear Mr. Grundvig:

Re: Approval Order: Minor Modification to Approval Order DAQE-AN105100011-24 to Replace a
Printing Press
Project Number: N105100012

The attached Approval Order (AO) is issued pursuant to the Notice of Intent (NOI) received on May 7, 2025. Deluxe Manufacturing Operations must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **Mr. Enqiang He**, who can be contacted at (801) 556-1580 or ehe@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. No public comments were received on this action.

Sincerely,

Bryce C. Bird
Director

BCB:EH:jg

cc: Salt Lake County Health Department

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

APPROVAL ORDER
DAQE-AN105100012-25
Minor Modification to Approval Order DAQE-AN105100011-24
to Replace a Printing Press

Prepared By
Mr. Enqiang He, Engineer
(801) 556-1580
ehe@utah.gov

Issued to
Deluxe Manufacturing Operations - Coldset Printing Presses & Stamping

Issued On
September 11, 2025

Issued By



Bryce C. Bird
Director
Division of Air Quality

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GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name

Deluxe Manufacturing Operations

Source Name

Deluxe Manufacturing Operations - Coldset
Printing Presses & Stamping

Mailing Address

5820 West Harold Gatty Drive
Salt Lake City, UT 84116

Physical Address

5820 West Harold Gatty Drive
Salt Lake City, UT 84116

Source Contact

Name: Lynn Grundvig
Phone: (435) 830-0590
Email: lynn.grundvig@deluxe.com

UTM Coordinates

412,890 m Easting
4,515,000 m Northing
Datum NAD83
UTM Zone 12

SIC code 2761 (Manifold Business Forms)

SOURCE INFORMATION

General Description

Deluxe Manufacturing Operations (Deluxe) operates a check printing facility in Salt Lake City. All the printing processes use the offset lithography technique. Deluxe also operates natural gas combustion equipment. VOC emissions from the printing operations are limited to 20.45 tpy.

NSR Classification

Minor Modification at Minor Source

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

Deluxe has requested a modification to AO DAQE-AN105100011-24 to replace the four-color Heidelberg GTO 52 printing press listed in II.A.13 with a six-color Heidelberg speedmaster printing press. VOC emission increases as a result of the replacement have been added to the sitewide total. There are no emission changes in all other criteria pollutants or HAPs.

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) |
|--|---------------------|--------------------|
| CO ₂ Equivalent | 0 | 317.00 |
| Carbon Monoxide | 0 | 0.22 |
| Nitrogen Oxides | 0 | 0.13 |
| Particulate Matter - PM ₁₀ | 0 | 0.02 |
| Particulate Matter - PM _{2.5} | 0 | 0.02 |
| Sulfur Dioxide | 0 | 0.00 |
| Volatile Organic Compounds | 0.03 | 20.46 |

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] |

SECTION II: PERMITTED EQUIPMENT

II.A THE APPROVED EQUIPMENT

| | |
|---------|--|
| II.A.1 | Deluxe Manufacturing Operations Printing operations |
| II.A.2 | Digital Offset Press Two (2) HP 100K digital offset presses |
| II.A.3 | Digital Press One (1) HP 7900 digital press |
| II.A.4 | Printing Press One (1) HP T250 thermal inkjet printing press |
| II.A.5 | Printing Presses Five (5) two-color Heidelberg GTO 52 presses |
| II.A.6 | Printing Presses Nineteen (19) DCOP presses |
| II.A.7 | Printing Presses One (1) Heidelberg 6-color speedmaster printing press |
| II.A.8 | Printing Presses Two (2) Ryobi presses |
| II.A.9 | Printing Presses Three (3) Halm jet presses |
| II.A.10 | Machine Cleaners/Oilers Three (3) numbering machine cleaners/oilers |
| II.A.11 | Printing Press One (1) six-color Didde press |
| II.A.12 | Printing Press One (1) four-color Didde press |
| II.A.13 | Printing Press One (1) six-color Heidelberg speedmaster printing press - new |
| II.A.14 | Printing Press One (1) two-color super jet press |
| II.A.15 | Support Equipment One (1) folder |
| II.A.16 | Support Equipment One (1) collator |
| II.A.17 | Support Equipment One (1) Kodak plate maker |

| | |
|---------|--|
| II.A.18 | <p>Various Boilers Rating: < 5 MMBtu/hr each Fuel: Natural gas (Exempt equipment; for information only; boilers may be subject to R307-315)</p> |
| II.A.19 | <p>Finishing Area One (1) finishing operation area</p> |
| II.A.20 | <p>UV Curing Units Six (6) electrical UV curing units (for information only)</p> |

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

| | |
|------------|---|
| II.B.1 | <p>Site-Wide Requirements and Limitations</p> |
| II.B.1.a | <p>The owner/operator shall not allow visible emissions from any emission point to exceed 20% opacity. [R307-401-8]</p> |
| II.B.1.a.1 | <p>Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-401-8]</p> |
| II.B.2 | <p>VOC and HAP Limitations</p> |
| II.B.2.a | <p>The owner/operator shall not emit more than 20.45 tons of VOCs per rolling 12-month period from the printer presses, cleaning solvents, and associated operations. [R307-401-8]</p> |
| II.B.2.a.1 | <p>The owner/operator shall calculate a new 12-month total by the 20th 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:</p> $\text{VOCs} = [\% \text{ VOCs by Weight}/100] \times [\text{Density}] \times [\text{Volume Consumed}]$ <p>[R307-401-8]</p> |
| II.B.2.a.2 | <p>The owner/operator shall use a mass-balance method to quantify any amount of VOCs reclaimed. The owner/operator shall subtract the amount of VOCs reclaimed from the quantities calculated above to provide the monthly total VOC emissions. [R307-401-8]</p> |

| | |
|-------------------|--|
| <p>II.B.2.a.3</p> | <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-emitting material B. The maximum percent by weight of VOCs in each material used C. The density of each material used D. The volume of each VOC-emitting material used E. The amount of VOCs emitted from each material F. The amount of VOCs reclaimed and/or controlled from each material G. The total amount of VOCs emitted from all materials (in tons). <p>[R307-401-8]</p> |
| <p>II.B.2.b</p> | <p>The owner/operator shall not use any material containing HAPs in inks, fountain solutions, and cleaning solvents. [R307-401-8]</p> |
| <p>II.B.2.c</p> | <p>The owner/operator shall comply with the applicable requirements in UAC R307-325, Ozone Nonattainment and Maintenance Areas: General Requirements, and R307-351, Graphic Arts. [R307-325, R307-351]</p> |

PERMIT HISTORY

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

Supersedes
 Incorporates
 Incorporates

AO DAQE-AN1051000011-24 dated January 24, 2024
 NOI dated May 7, 2025
 Additional information dated May 8, 2025

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 |