



State of Utah

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Governor

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Lieutenant Governor

Department of
Environmental Quality

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Executive Director

DIVISION OF AIR QUALITY
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DAQE-IN100280020-25

November 13, 2025

Trevette Kuester
Vulcraft - Division of Nucor Corporation
1875 West Highway 13 South
PO Box 637
Brigham City, UT 84302-0637
tkuester@vulcraft-ut.com

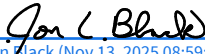
Dear Mr. Kuester:

Re: Intent to Approve: Modification to Approval Order DAQE-AN100280019-24 to Add a Tower and Structure Fabrication Plant along with other changes to the permitted equipment
Project Number: N100280020

The attached document is the Intent to Approve (ITA) for the above-referenced project. The ITA is subject to public review. Any comments received shall be considered before an Approval Order (AO) is issued. The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an AO. An invoice will follow upon issuance of the final AO.

Future correspondence on this ITA should include the engineer's name, **John Persons**, as well as the DAQE number as shown on the upper right-hand corner of this letter. John Persons, can be reached at (385) 306-6503 or jpersons@utah.gov, if you have any questions.

Sincerely,


[Jon Black \(Nov 13, 2025 08:59:57 MST\)](#)

Jon L. Black, Manager
New Source Review Section

JLB:JP:jg

cc: Bear River Health Department
EPA Region 8

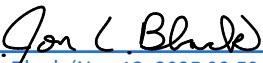
STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

INTENT TO APPROVE
DAQE-IN100280020-25
Modification to Approval Order DAQE-AN100280019-24 to Add a
Tower and Structure Fabrication Plant along with other changes to
the permitted equipment

Prepared By
John Persons, Engineer
(385) 306-6503
jpgersons@utah.gov

Issued to
Vulcraft - Division of Nucor Corporation - Steel Products Manufacturing

Issued On
November 13, 2025


Jon Black (Nov 13, 2025 08:59:57 MST)

New Source Review Section Manager
Jon L. Black

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GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name

Vulcraft - Division of Nucor Corporation

Source Name

Vulcraft - Division of Nucor Corporation - Steel Products Manufacturing

Mailing Address

1875 West Highway 13 South
PO Box 637
Brigham City, UT 84302-0637

Physical Address

1875 West Highway 13 South
Brigham City, UT 84302-0637

Source Contact

Name: Trevette Kuester
Phone: (435) 279-4921
Email: tkuester@vulcraft-ut.com

UTM Coordinates

411,363 m Easting
4,598,542 m Northing
Datum NAD83
UTM Zone 12

SIC code 3441 (Fabricated Structural Metal)

SOURCE INFORMATION

General Description

The Vulcraft - Division of Nucor Corporation - Steel Products Manufacturing (Nucor-Vulcraft) operations consist of five (5) steel processing and fabrication plants: 1) Vulcraft Joist Plant; 2) Nucor Wire Products Utah; 3) Nucor Building Systems; 4) Nucor Insulated Panels; and 5) Towers and Structures. The Vulcraft Joist Plant contains the Bridging Line System, Truck Stop, Steel Grating, and Joist and Truss Painting equipment. The Cold Finish Division encompasses the Wire Line, Coil Line, Bar Line, and Wire Mesh. The Nucor Building Systems includes the Built-Up Line, Purlin Line, Rod Line, Standing Seam Line (metal roofing), Accessory Dip Coating, and the Maintenance Shop. The Nucor Insulated Panels include the FOAM-1 Line.

NSR Classification

Minor Modification at Major Source

Source Classification

Located in Salt Lake City UT PM_{2.5} NAA
Box Elder County
Airs Source Size: A

Applicable Federal Standards

NSPS (Part 60), A: General Provisions
NSPS (Part 60), JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
MACT (Part 63), A: General Provisions
MACT (Part 63), ZZZZ: National Emissions Standards for Hazardous Air Pollutants for

Stationary Reciprocating Internal Combustion Engines
 MACT (Part 63), CCCCCC: National Emission Standards for Hazardous Air Pollutants for
 Source Category: Gasoline Dispensing Facilities
 MACT (Part 63), JJJJJJ: National Emission Standards for Hazardous Air Pollutants for
 Industrial, Commercial, and Institutional Boilers Area Sources
 MACT (Part 63), XXXXXX: National Emission Standards for Hazardous Air Pollutants Area
 Source Standards for Nine Metal Fabrication and Finishing Source Categories
 Title V (Part 70) Major Source

Project Description

Nucor-Vulcraft requested the addition of a new Towers and Structures fabrication facility. The Nucor Towers and Structures facility will consist of two (2) main processes: the Pole Building Process and the Pickling and Galvanizing Process. The Pole Building process will process 30,000 tons per year (tpy) of coiled sheet and plate. This process will also consume 30,000 gallons of polyurethane materials and 5,000 gallons of Roll-on UV protectant coating per year. The Pickling and Galvanizing process will throughput 100,000 tons of steel products per year. In addition to the T&S facility, Nucor-Vulcraft has also requested to add three (3) natural gas-fired make-up air (MAUs), one (1) natural gas-fired emergency generator engine at Nucor Building Systems, one (1) natural gas-fired generator engine at T&S, one (1) natural gas-fired generator engine at Vulcraft, and adhesive/wood glue operation at Vulcraft. Furthermore, all mentions of "TrueCore Insulated Panels Building" have been changed to "Nucor Insulated Panel Group," and mentions of the Cold Finish Plant have been changed to "Nucor Wire Products" at the request of Nucor-Vulcraft. Nucor has also requested to correct the size of the MDI tanks listed in II.A.29 and remove several pieces of equipment from the previous permit (DAQE-AN100280019-24).

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	20736	38901.00
Carbon Monoxide	14.97	18.91
Nitrogen Oxides	15.66	34.92
Particulate Matter - PM ₁₀	-3.09	32.24
Particulate Matter - PM ₁₀ (Fugitives)	-1.82	0.86
Particulate Matter - PM _{2.5}	0.44	26.30
Particulate Matter - PM _{2.5} (Fugitives)	-0.17	0.12
Primary PM ₁₀ , Condensable Portion Only	0.03	0.88
Primary PM _{2.5} , Condensable Portion Only	0.03	0.88
Sulfur Dioxide	0.11	0.20
Volatile Organic Compounds	6.04	193.14

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Chromium Compounds (CAS #CMJ500)	0	2
Generic HAPs (CAS #GHAPS)	740	18800
Hydrochloric Acid (Hydrogen Chloride) (CAS #7647010)		7260
Lead (CAS #7439921)	0	100
Manganese Compounds (CAS #MAR500)	0	620

Methylene Diphenyl Diisocyanate (MDI) (CAS #101688)	0	13
Nickel & Compounds (CAS #226)	0	2
	Change (TPY)	Total (TPY)
Total HAPs	4	13.40

PUBLIC NOTICE STATEMENT

The NOI for the above-referenced project has been evaluated and has been found to be consistent with the requirements of UAC R307. Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Director.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the intent to approve will be published in the Box Elder News & Journal on November 19, 2025. During the public comment period, the proposal and the evaluation of its impact on air quality will be available for the public to review and provide comment. If anyone so requests a public hearing within 15 days of publication, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated. The proposed conditions of the AO may be changed as a result of the comments received.

SECTION I: GENERAL PROVISIONS

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

I.1	All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC Rule 307 (R307) and Title 40 of the Code of Federal Regulations (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 in accordance with UAC R307-401. [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 five-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 five (5) 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. Inventories, Testing and Monitoring. [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. [R307-401-18]

SECTION II: PERMITTED EQUIPMENT

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

II.A THE APPROVED EQUIPMENT

II.A.1	<p>Steel Products Manufacturing – Brigham City Vulcraft Structural/Joist Plant, Nucor Wire Products, Nucor Building Systems (NBS), and Towers and Structures (T&S) Operation</p>
II.A.2	<p>Nucor and Vulcraft Site-Wide Equipment</p> <ul style="list-style-type: none"> A. Miscellaneous mobile equipment B. Handheld Plasma Cutters C. Multiple Welding Stations D. Fuel Tanks Outdoor gasoline or diesel fuel storage E. Compressor Building F. Miscellaneous Parts Washers G. Spray Painting Equipment H. Maintenance Shops

II.A.3	<p>Four (4) Cold Finish Area Shot Blasters</p> <p>Controls:</p> <ul style="list-style-type: none"> A. Coil Line dust collector Maximum Airflow: 5,500 scfm B. Bar Line dust collector Maximum Airflow: 16,000 scfm C. Wire Line Baghouse (Dust Collector) Maximum Airflow: 2,800 scfm D. NCF Plasma Cutter Table Control: Water Table
II.A.4	<p>Structural/Joist Plant</p>
II.A.5	<p>Eight (8) surface coating dip tanks</p>
II.A.6	<p>Bridging Paint Line System One (1) electric oven and enclosed paint spray box Included for informational purposes</p>
II.A.7	<p>One (1) Structural Products Plasma Cutter Control: water table</p>
II.A.8	<p>One (1) Steel Grating Plasma Cutter Dry Plasma Cutter Control: Baghouse</p>
II.A.9	<p>One (1) Steel Grating dip tank</p>
II.A.10	<p>Four (4) Heaters Maximum rating: 6.48 MMBtu/hr each Fuel: Natural Gas</p>
II.A.11	<p>One (1) Emergency Engine Rating: 150 kW Fuel: Natural Gas/Propane NSPS Applicability: Subpart JJJJ MACT Applicability: Subpart ZZZZ</p>
II.A.12	<p>Nucor Building Systems</p>
II.A.13	<p>Built-Up Line</p>
II.A.14	<p>Two (2) Plasma cutters Control: water table</p>
II.A.15	<p>Two (2) Spray Booth Areas Includes: Two (2) separate Spray Booth Bays Each (four (4) bays total) Each bay vents to exhaust stacks Controls: Air collection system and fabric filters</p>

II.A.16	<p>Two (2) Drying Ovens Maximum Ratings: 3.0 MMBtu/hr & 4.1 MMBtu/hr Fuel: Natural Gas and Propane</p>
II.A.17	<p>Flange Line Includes Plasma Bevel Preparation Dry Plasma Cutter Control: Dust and Fume Collection System</p>
II.A.18	<p>Purlin Line</p> <ul style="list-style-type: none"> A. Roll-forming equipment B. Flow Coater Application Type: Automated/vacuum
II.A.19	<p>One (1) Shot Blaster Abrasive Blaster Manufacturer Name: Peddinghaus shot Blaster Control: Baghouse MACT Applicability: Subpart XXXXXX</p>
II.A.20	<p>One (1) Purlin Line Drying Oven Maximum Rating: 4.5 MMBtu/hr Fuel: Natural Gas and Propane</p>
II.A.21	<p>Rod Line Flow Coater Line Application type: Automated/vacuum</p>
II.A.22	<p>Accessory Dip Coating Two (2) open-topped dip tanks</p>
II.A.23	<p>Metal Roofing and Siding Panel Forming Various automated panel and trim roll forming equipment Incorporates: Highly evaporative lubricant application equipment</p>
II.A.24	<p>Two (2) Mastic-application Roll Formers</p>
II.A.25	<p>Nucor Insulated Panels Building</p>
II.A.26	<p>FOAM-1 Line Nucor Insulated Panel Group Building Vent: FOAM-1 Stack</p> <p>Includes: Double belt laminator and cross-cut/edge trimming saws Control: Baghouse (DC-01)</p>
II.A.27	<p>Mastic Applicator (MAST) Nucor Insulated Panel Group Building Vents Internally</p>
II.A.28	<p>One (1) Baghouse (DC-01) Maximum Air Flow: 3,800 CFM</p>

<p>II.A.29</p>	<p>Tanks Nucor Insulated Panel Group Building One (1) n-Pentane Tank Capacity: 12,200 gallons</p> <p>Two (2) MDI Tanks Capacity: 10,202 gallons Each Two (2) Polyol Tanks Capacity: 10,202-gallons Each</p>
<p>II.A.30</p>	<p>Caustic Detergent Cleaning Operation Control: Scrubber Location: T&S</p>
<p>II.A.31</p>	<p>Sulfuric Acid Pickling Operation Control: Scrubber Location: T&S</p>
<p>II.A.32</p>	<p>One (1) Natural Gas-Fired Galvanizing Furnace Maximum Rating: 24 MMBtu/hr Fuel: Natural Gas Use: Zinc melting (with optional induction heating) Location: T&S</p>
<p>II.A.33</p>	<p>Flux and Galvanizing Process Control: Baghouse Location: T&S</p>
<p>II.A.34</p>	<p>Plasma Cutting Operation Two (2) cutting tables Control: Cartridge filters Location: T&S</p>
<p>II.A.35</p>	<p>Welding Operation Process Type: SAW and MCAW/GMAW Location: T&S</p>
<p>II.A.36</p>	<p>Shot Blasting Operation Control: Baghouse Location: T&S</p>
<p>II.A.37</p>	<p>One (1) Coating Booth Application: Polyurethane spray and roll-on UV coating Controls: Dry filters Location: T&S</p>
<p>II.A.38</p>	<p>One (1) Natural Gas-fired Boiler Maximum Rating: 11.8 MMBtu/hr Design: Fire-tube Use: Heat pickling and cleaning solutions Fuel: Natural Gas Location: T&S</p>

II.A.39	<p>One (1) Natural Gas-fired Dryer/Generator Maximum Rating: 10 MMBtu/hr Use: Supplemental steel drying heat Fuel: Natural Gas Location: T&S</p>
II.A.40	<p>One (1) Natural Gas-fired Heater Maximum Rating: 10 MMBtu/hr Use: Baghouse Room Fuel: Natural Gas Location: T&S</p>
II.A.41	<p>One (1) Cooling Tower Flow Rate: 1,000 gpm Type: Non-contact Location: T&S</p>
II.A.42	<p>T&S Haul Road Truck Traffic Location: T&S</p>
II.A.43	<p>Three (3) Natural Gas-Fired Make-Up Air Units Ratings: 6.5 MMBtu/hr, 3.5 MMBtu/hr, and 0.08 MMBtu/hr Fuel: Natural Gas Location: NBS</p>
II.A.44	<p>One (1) Emergency Generator Engine Rating: 500 kW Fuel: Natural Gas Location: T&S</p>
II.A.45	<p>One (1) Emergency Generator Engine Rating: 60 kW (80.46 hp) Fuel: Natural Gas Location: NBS</p>
II.A.46	<p>One (1) Emergency Generator Engine Rating: 40 kW Fuel: Natural Gas Location: Vulcraft</p>
II.A.47	<p>Wood Glue/Adhesive Operations Location: Vulcraft Joist Plant</p>

SECTION II: SPECIAL PROVISIONS

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	Site-Wide Requirements
II.B.1.a	<p>The owner/operator shall not exceed the following production limits:</p> <ul style="list-style-type: none"> A. 79,100 tons of production from the NBS operations per rolling 12-month period B. 154,200 tons of production from the Joist Plant and mini-joist operations per rolling 12-month period C. 18,854 tons of production from the Structural Products operations per rolling 12-month period D. 15,000 tons of production from the Steel Grating operations per rolling 12-month period E. 100,000 tons of production from the T&S operations per rolling 12-month period <p>[R307-401-8]</p>
II.B.1.a.1	<p>The owner/operator shall demonstrate compliance with the rolling 12-month total for each production limit. The owner/operator shall calculate and record a new 12-month total by the last day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production records shall be determined by examination of sales, billing records, or operation logs. The records of production shall be kept on a daily basis. [R307-401-8]</p>
II.B.1.b	<p>The owner/operator shall not exceed the following combined site-wide emissions of VOCs and HAPs from the dip tanks, paint booths, spray painting, degreasers, foaming operations, and parts cleaners used in operations at the facility:</p> <ul style="list-style-type: none"> 193.01 tons per rolling 12-month period for VOCs 4.77 tons per rolling 12-month period for any individual HAP 13.45 tons per rolling 12-month period for all HAPs combined <p>[R307-401-8]</p>
II.B.1.b.1	<p>Compliance with each limitation shall be determined on a rolling 12-month total. Based on the last day of each month, a new 12-month total shall be calculated using data from the previous 12 months. Monthly calculations shall be made no later than 20 days after the end of each calendar month. [R307-401-8]</p>

<p>II.B.1.b.2</p>	<p>The VOC and HAP emissions shall be determined by maintaining a record of VOC- and HAP-emitting materials used each month. The record shall include the following data for each material used:</p> <p>A. Name of the VOC-, or HAP-emitting material, such as paint, adhesive, solvent, thinner, reducers, chemical compounds, toxics, isocyanates, etc.</p> <p>B. Density of each material used (pounds per gallon)</p> <p>C. Percent by weight of all VOC, or HAP in each material used</p> <p>D. Gallons of each VOC-, or HAP-emitting material used</p> <p>E. The amount of VOC, or HAP emitted monthly by each material used shall be calculated by the following procedure:</p> <p style="padding-left: 40px;">VOC = (% VOC by Weight/100) x [Density (lb/gal)] x Gal Consumed x 1 ton/2000 pounds</p> <p style="padding-left: 40px;">HAP = (% HAP by Weight/100) x [Density (lb/gal)] x Gal Consumed x 1 ton/2000 pounds</p> <p>F. The amount of VOC, or HAP emitted monthly from all materials used.</p> <p>G. The amount of VOCs, or HAPs, reclaimed for the month shall be similarly quantified and subtracted from the quantities calculated above to provide the monthly total VOC, or HAP emissions.</p> <p>H. The amount of VOCs from Nucor Insulated Panel Group foam operations shall be calculated as follows:</p> <p style="padding-left: 40px;">VOC = Blowing Agent usage in the foam (tons/month) * %VOC Release Rate + PTE MDI emissions (tons/month)</p> <p>[R307-401-8]</p>
<p>II.B.1.c</p>	<p>The owner/operator shall not allow visible emissions from any fugitive dust source to exceed 20 percent opacity on site and 10 percent at the property boundary. [R307-401-8]</p>
<p>II.B.1.d</p>	<p>Opacity observations of fugitive dust from intermittent sources shall be conducted according to 40 CFR 60, Appendix A, Method 9; however, the requirement for observations to be made at 15-second intervals over a six-minute period shall not apply. The number of observations and the time period shall be determined by the length of the intermittent source. For fugitive dust generated by mobile sources, visible emissions shall be measured at the densest point of the plume but at a point not less than one-half vehicle length behind the vehicle and not less than one-half the height of the vehicle. [R307-401-8]</p>
<p>II.B.1.e</p>	<p>The owner/operators shall water spray and/or chemically treat all unpaved roads and other unpaved operational areas that are used by mobile equipment to maintain opacity limits unless the temperature is below freezing. [R307-401-8]</p>
<p>II.B.1.f</p>	<p>The owner/operator shall sweep all paved areas onsite to maintain the opacity limits listed in the AO. If chemical treatment is to be used, the plan must be approved by the Director. [R307-401-8]</p>

<p>II.B.1.f.1</p>	<p>Records of water and/or chemical treatment shall be kept for all periods when the plant is in operation. The records shall include the following items:</p> <ul style="list-style-type: none"> A. Date B. Number of treatments made, dilution ratio, and quantity C. Rainfall received, if any, and approximate amount D. Time of day treatments were made E. Records of temperature if the temperature is below freezing <p>[R307-401-8]</p>
<p>II.B.1.g</p>	<p>The owner/operator shall use only natural gas or propane as a fuel in the drying ovens. [R307-401-8]</p>
<p>II.B.1.h</p>	<p>The owner/operator shall keep all dip tanks and parts cleaners covered, except when they are in use. [R307-401-8]</p>
<p>II.B.1.i</p>	<p>The owner/operator shall maintain records of steel product operations associated with paint dip tanks. [R307-401-8]</p>
<p>II.B.1.i.1</p>	<p>Records shall include the following:</p> <ul style="list-style-type: none"> A. Dates and times when steel product assembly/painting commences and ends B. Verification that the dip tank covers are in a closed position within one (1) hr of when steel product assembly/painting ceased <p>[R307-401-8]</p>
<p>II.B.1.j</p>	<p>The owner/operator shall maintain visible emissions at or below the following values:</p> <ul style="list-style-type: none"> A. Baghouse and dust collectors - 5% opacity B. Steel Grating Plasma Cutter - 10% opacity C. All natural gas and propane fired equipment - 10% opacity D. All other points - 20% opacity <p>[R307-201, R307-401-8]</p>
<p>II.B.1.k</p>	<p>The owner/operator shall perform visual observations on the Bar Line dust collector, Coil Line dust collector, and Wire Line baghouse at least once during each week that they operate. [R307-401-8]</p>
<p>II.B.1.k.1</p>	<p>Visual observations shall be made by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified visible emissions observer (VEO). If any visible emissions are observed, an opacity determination shall be performed by a certified VEO in accordance with 40 CFR 60, Appendix A, Method 9. The opacity determination shall be made within 24 hours or at the beginning of the next day of dust collector/baghouse operation. [R307-401-8]</p>

II.B.2	T&S Requirements
II.B.2.a	The owner/operator shall not operate the galvanizing furnace on site for more than 4,000 hours per rolling 12-month period. [R307-401-8]
II.B.2.a.1	The owner/operator shall: <ul style="list-style-type: none"> A. Determine hours of operation by keeping an operational hour's log B. Record hours of operation on a daily basis C. Use the hours of operation data to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months D. Keep the hours of operation records for all periods the plant is in operation [R307-401-8]
II.B.2.b	The owner/operator shall vent all emissions from the painting and coating operation at the T&S facility through a fabric filter rated to capture at least 99% of PM ₁₀ emissions. [R307-401-8]
II.B.2.b.1	The owner/operator shall keep records demonstrating that the fabric filters used to control PM ₁₀ emissions from painting and coating are rated to capture at least 99% of PM ₁₀ . [R307-401-8]
II.B.2.c	The owner/operator shall use low-VOC coatings and paints that do not exceed the VOC content limits listed in R307-304-5. [R307-304, R307-401-8]
II.B.2.d	The owner/operator shall only use high velocity low pressure (HVLP) or equivalently efficient spray guns at its coatings and painting operation at the towers and structure facility. [R307-350-6, R307-401-8]
II.B.2.e	The owner/operator shall vent all emissions from pickling through a scrubber. [R307-401-8]
II.B.3	Emergency Generator Engine Requirements
II.B.3.a	The owner/operator shall not operate each emergency engine on site for more than 100 hours per calendar year during non-emergency situations. There is no time limit on the use of the engines during emergencies. [R307-401-8]
II.B.3.a.1	To determine compliance, the owner/operator shall calculate a new calendar year total at the end of each calendar year. Records documenting the operation of each emergency engine shall be kept in a log and shall include the following: <ul style="list-style-type: none"> A. The date the emergency engine was used B. The duration of operation in hours C. The reason for the emergency engine usage [R307-401-8]
II.B.3.a.2	To determine the duration of operation, the owner/operator shall install a non-resettable hour meter for each emergency engine. [R307-401-8]
II.B.3.a.3	The owner/operator shall operate no more than one (1) emergency use generator at a time for non-emergency purposes. [R307-401-8]

II.B.4	Site-Wide Baghouse Requirements
II.B.4.a	<p>The owner/operator shall use a baghouse or dust collector to control all particulate emissions from the:</p> <ul style="list-style-type: none"> A. T&S Abrasive Blasting Operations B. T&S Plasma Cutting Operations C. T&S Shot Blasting Operations D. T&S Galvanizing Operations E. Wire Line F. Steel Grate Plasma Cutter G. Bar Line H. Coil Line I. DC-01 <p>[R307-401-8]</p>
II.B.4.b	<p>The owner/operator shall install a manometer, solid-state electric pressure gauge, or magnehelic pressure gauge to measure the static pressure drop across each baghouse and dust collector at the facility. [R307-401-8]</p>
II.B.4.b.1	<p>The owner/operator shall ensure all pressure gauges are located such that an inspector/operator can safely read the indicator at any time. [R307-401-8]</p>
II.B.4.c	<p>During operation of each baghouse and dust collector, the owner/operator shall maintain the static pressure drop within the range recommended by the manufacturer for normal operations. [R307-401-8]</p>
II.B.4.c.1	<p>The owner/operator shall record the pressure drop at least once per week while each baghouse and dust collector is operating. [R307-401-8]</p>
II.B.4.c.2	<p>The owner/operator shall maintain the following records of the pressure drop readings:</p> <ul style="list-style-type: none"> A. Unit identification; B. Manufacturer-recommended pressure drop for the unit, including the gauge measurement metric (kPA, mbar, inches of water, etc.) C. Date of reading; D. Daily static pressure drop readings <p>[R307-401-8]</p>
II.B.4.d	<p>At least once every 12 months, the owner/operator shall calibrate the pressure gauges in accordance with the manufacturer's instructions or replace the gauges. [R307-401-8]</p>
II.B.4.d.1	<p>The owner/operator shall maintain records of the pressure gauge calibrations and replacements. [R307-401-8]</p>

II.B.4.e	The owner/operator shall not allow visible emissions from any baghouse or dust collector to exceed 5% opacity. [R307-401-8]
II.B.4.e.1	Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-401-8]
II.B.5	Nucor Building System Requirements
II.B.5.a	<p>The owner/operator shall install a manometer or magnehelic pressure gauge to measure the differential pressure across the filter media of each spray booth bay. To ensure compliance the owner shall:</p> <ul style="list-style-type: none"> A. Use a portable anemometer during initial operation to determine a correlation between pressure drop and spray booth face velocity B. Use the correlation to set a reference mark on each manometer or magnehelic pressure gauge to show the point at which in the future, the face velocity will be assumed to have dropped to 100 fpm. C. Replace all or part of the filter media when the face velocity has dropped to 100 fpm. D. Maintain documentation of these measurements. E. Conduct inspections on a quarterly basis to verify adequate maintenance <p>[R307-401-8]</p>
II.B.5.a.1	Records of inspections and maintenance shall be maintained including at a minimum: spray booth identification, date of inspection, results of inspection, manometer or magnehelic gauge repairs, and other corrective actions taken. [R307-401-8]
II.B.5.b	The owner/operator shall ensure all visible emissions from the Spray Booth Exhaust do not exceed 5% opacity. [R307-401-8]
II.B.5.c	The owner/operator shall perform visual observations on the Spray Booth Stacks at least once during each week they operate. [R307-401-8]
II.B.5.c.1	Visual observations shall be made by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified VEO. If any visible emissions are observed, an opacity determination shall be performed by a certified VEO in accordance with 40 CFR 60, Appendix A, Method 9. The opacity determination shall be made within 24 hours, or at the beginning of the next day of Spray Booth operation. [R307-401-8]
II.B.5.d	The owner/operator shall install and operate low-NO _x burners (<30 ppm NO _x) on the 6.5 MMBtu/hr and 3.5 MMBtu/hr makeup air units (MAUs). [R307-401-8]
II.B.5.d.1	The owner/operator shall keep records demonstrating that the burners on the MAUs operate as low-NO _x (<30 ppm NO _x) at all times the facility is in operation. [R307-401-8]
II.B.6	Vulcraft Joist Plant Requirements
II.B.6.a	The owner/operator shall use low VOC adhesives in the wood glue adhesives operation that do not exceed the VOC content limits listed in R307-304-5. [R307-401-8]

PERMIT HISTORY

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

Replaces	AO DAQE-AN100280019-24 dated January 12, 2024
Is Derived From	NOI dated May 8, 2024
Incorporates	Additional Information dated August 1, 2024
Incorporates	Additional Information dated October 3, 2024
Incorporates	Additional Information dated October 24, 2024
Incorporates	Additional Information dated January 10, 2025
Incorporates	Additional Information dated January 24, 2024
Incorporates	Additional Information dated February 5, 2025
Incorporates	Additional Information dated March 4, 2025
Incorporates	Additional Information dated April 15, 2025
Incorporates	Additional Information dated May 19, 2025
Incorporates	Additional Information dated June 9, 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 ₂ e	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