

Fact Sheet



For Final Significant Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act

This Fact Sheet serves to address the changes specific to this Significant Modification, and shall be considered a supplement to the Fact Sheet corresponding with the Title V operating permit issued on January 10, 2017.

Permit Number: **R30-04100045-2017(SM02)**
Application Received: **November 19, 2020**
Plant Identification Number: **03-54-041-00045**
Permittee: **Latham Pool Products, Inc.**
Facility Name: **Viking Pools-WV/Jane Lew**
Mailing Address: **P.O. Box 550, Jane Lew, WV 26378**

Permit Action Number: *SM02* Revised: *May 24, 2021*

Physical Location:	Jane Lew, Lewis County, West Virginia
UTM Coordinates:	552.3 km Easting • 4328.1 km Northing • Zone 17
Directions:	From Interstate 79, take exit 105 and proceed west on WV County Route 7 for approximately 0.5 miles. Turn left on Lewis County Industrial Park Road (County Route 78) and proceed approximately 0.5 miles to the plant site on the left.

Facility Description

Viking Pool's Jane Lew facility manufactures swimming pools, spas, and related products made of reinforced plastic (referred to as reinforced plastic composite). There are two production lines at the facility (i.e. Blue Viking Building and Green CPC Building). The manufacturing process is a semi-continuous process consisting typically of between 6-10 steps. Actual number of steps can be more or less than this range. Pools and spas are manufactured by applying multiple layers of gel coat and resins to a plastic mold. Gel coats are used to provide color to the pools. Additional steps consist of the fabrication of structural layers which can be application of resins mixed with structural additives (e.g. ceramic powder, fiberglass strands or mat, etc.). The layers are sprayed in multiple steps with time allowed between sprays

for the coatings to “cure” (polymerization of the resin monomer contained in the coatings). The coating is cured at room temperature.

This modification is to add a rotary concentrator and regenerative thermal oxidizer (RTO).

Emissions Summary

This modification results in the following emission changes:

Pollutant	Change in Emissions (tpy)
CO	+0.37
NO _x	+0.43
SO ₂	+0.01
PM	+0.47
VOC	+0.03

Title V Program Applicability Basis

With the proposed changes associated with this modification, this facility maintains the potential to emit 178.13 tpy of VOCs, 141.5 tpy of Styrene, and 25.0 tpy of Methyl Methacrylate. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, over 10 tons per year of a single HAP, and over 25 tons per year of aggregate HAPs, Latham Pool Products, Inc. is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

The modification to this facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR6	To Prevent and Control Air Pollution From Combustion of Refuse
	45CSR13	NSR Permits
	45CSR30	Operating permit requirement.
	45CSR34	Emission Standards for Hazardous Air Pollutants
	40 C.F.R 63 Subpart WWWW	NESHAP: Reinforced Plastics Composites Production
State Only:	None.	

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

Active Permits/Consent Orders

The active permits/consent orders affected by this modification are as follows:

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit (<i>if any</i>)
R13-2332H	March 15, 2021	

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table," which may be downloaded from DAQ's website.

Determinations and Justifications

Regulatory Determinations

- **45CSR6** - 45CSR6 limits the particulate matter to be discharged from any incinerator into the open air in excess of the quantity determined by use of the following formula:

$$\text{Emissions (lb/hr)} = F \times \text{Incinerator Capacity (tons/hour)}$$

Where, $F = 5.43$ for an incinerator capacity less than 15,000 lbs/hr or 2.72 for an incinerator capacity of 15,000 lbs/hr or greater. The new RTO will burn a maximum of 190 lbs/hr of VOCs (well under 15,000 lb/hr) based upon a letter from the vendor, submitted by the applicant and dated November 12, 2020. Therefore, the allowable particulate emissions from the RTO are :

$$5.43 \times (190/2000) = 0.52 \text{ lb/hr.}$$

Particulate Matter emissions resulting from the combustion of the VOCs in the RTO were reported in the application to be 0.01 lb/hr. Therefore, the emissions limitations in 45CSR6 should be met by the RTO. Note that in making this determination "pass through" emissions (PM emissions not originating in the RTO but just routed through the RTO) were not counted. Those PM emissions will continue to be regulated by 45CSR7.

45CSR6 also has a visible emission limit of 20% opacity that the RTO is subject to.

- **40 CFR 63: Subpart WWWW** - Latham's operation is classified as an existing major source of HAPs under 40 CFR 63, Subpart WWWW - National Emission Standard for Hazardous Air Pollutants Reinforced Plastic Composites Production. Since there is no change in the methods of demonstrating compliance with the rule, the proposed changes do not affect the facility's ability to comply with this regulation.
- The new rotary concentrator (EP-12) and the RTO (EP-11) are part of EU-1B Manufacturing Process (Green CPC Building).

The following changes were made during this modification:

- Added Emission Points EP-12 (Rotary Concentrator) and EP-11 (RTO) to Emission Unit EU-1B of Section 1.1 Emission units and added CD-06 (RTO) and CD-05 (Fabric Filter) to the control devices for EU-1B. CD-05 is not listed in the R13-Permit emission unit table but is shown in the application's Emission Unit Table and Process Flow Diagram.

- Condition 4.1.1 was changed in two ways:
 - ❖ The emission limits were merged with the limits in 5.1.1 to establish one combined emission limit for both the manufacturing (EU-1B) and production (EU-1A) operations.
 - ❖ The period for determining compliance with the above emission limits was changed. Currently, compliance is based on a rolling 12 month total. With this modification, compliance for 2021 will be based on a calendar year total. However, it will revert back to a rolling 12 month total beginning in January of 2022. This will allow Latham to increase production while the RTO is being installed.
- New conditions 4.1.4, 4.1.5, 4.1.6, 4.1.8 were added. Old condition 4.1.4 was renumbered to 4.1.7.
- Condition 4.2.2 was modified to change the compliance period to be consistent as described above. Additional monitoring was added to condition 4.2.2 per 45CSR§30-5.1.c based on EPA comments (see Response to Comments).
- New condition 4.2.6 was added.
- Condition 5.1.1 was deleted since the emission limits were incorporated into 4.1.1.
- Conditions 5.1.2, 5.2.1 and 5.2.2 were modified to reference condition 4.1.1 instead of 5.1.1. Condition 5.2.2 was also modified to change the compliance period to be consistent as described above. Additional monitoring was added to condition 5.2.2 per 45CSR§30-5.1.c based on EPA comments (see Response to Comments).

Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

None.

Request for Variances or Alternatives

None.

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Beginning Date: April 14, 2021
Ending Date: May 14, 2021

Point of Contact

All written comments should be addressed to the following individual and office:

Robert Mullins
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: 304/926-0499 ext. 41286
Robert.A.Mullins@wv.gov

Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Response to Comments (Statement of Basis)

EPA Comments Received May 12, 2021:

Condition No's 4.2.2, and 5.2.2 contain monitoring requirements for determining compliance with the VOC emission limit contained in Condition No. 4.1.1, which is 177.4 tons/year for Emission Units EU-1A and EU-1B combined. The permit requires Latham Pools to determine compliance with the VOC emission limit on a calendar year basis for 2021, and beginning in January 2022, on a 12-month rolling basis.

Even though for calendar year 2021 compliance with the VOC emission limit is determined on a calendar year basis, and not a 12-month rolling basis, WVDEP should add monitoring that requires the facility to calculate the VOC monthly emissions on a tons/month basis and sum the tons/month with all of the preceding calendar year 2021 monthly emissions to determine compliance with the annual VOC limit on a monthly basis. Condition Nos' 4.2.2 and 5.2.2 as currently written in the draft permit only require Latham Pools to determine compliance with the annual VOC emission at the end of the calendar year 2021, which is not federally enforceable. Consistent with the U.S. EPA June 13, 1989, memorandum from John Seitz, "Guidance on Limiting Potential to Emit in New Source Permitting", emission limitations, in order to be enforceable as a practical matter, should be as short term as possible and should generally not exceed one month.

DAQ Response:

To address the above comment, the following monitoring language was added per 45CSR§30-5.1.c to conditions 4.2.2. and 5.2.2:

"The 2021 calendar year emissions shall be calculated monthly and be the sum of all previous tons/month emissions for 2021."

Additionally, the sentence in condition 5.2.2 which states "Calendar emissions for 2021 shall be determined by January 30, 2022" was not included because it contradicted the requirement added under 45CSR§30-5.1.c.