



Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

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MAY 12 2016

Mr. Mark Hyde
 Plant Manager
 CertainTeed Corporation
 100 CertainTeed Drive
 Jonesburg, MO 63351

RE: New Source Review Permit Amendment - Permit Number: 072015-014A
 Project Number: 2016-04-004; Installation Number: 139-0052

Dear Mr. Hyde:

This amendment is in response to CertainTeed's request to reroute emissions from the flux and mix tanks mist eliminator CTRL-5 rather to be controlled in series by mist eliminator CTRL-5, mist eliminator CTRL-11, and RTO CTRL-12. A table summarizing the affected units is below.

Emission Unit	Description	Existing Control	Existing Emission Point	Proposed Control	Proposed Emission Point
TK-0310	Flux asphalt tank	mist eliminator CTRL-5	S-02	mist eliminator CTRL-5, mist eliminator CTRL-11, RTO CTRL-12 all in series	S-21
TK-0320	Flux asphalt tank				
TK-0410	Recycled oil tank				
TK-0510	Mix tank				
TK-0520	Mix tank				
TK-9420	Flux mist eliminator condensate tank				

As the emission units are subject to an additional mist eliminator and the RTO then additional control efficiency was added. An additional 50% control was added for PM, PM₁₀, and PM_{2.5}. An additional 90% control was added to VOC and volatile HAPs. SO₂ and HCL emissions may increase since the asphalt fume emissions are now subject to combustion. Other combustion emissions don't show a permitted increase. Project emissions are summarized below. CTRL-12 will see an emissions increase. However, installation-wide emissions show either a decrease or no change. Emission rates will be confirmed by testing.

Pollutant	Installation-Wide Emission Change (lb/hr)
PM	-0.216
PM ₁₀	-0.216
PM _{2.5}	-0.186
SO ₂	0.459
NO _x	N/A
VOC	-0.371
CO	N/A
CO ₂	N/A
CH ₄	N/A
N ₂ O	N/A
GHG (mass)	N/A
GHG (CO ₂ e)	N/A
H ₂ S	-0.458
Combined HAPs	-0.199

Ambient modeling was conducted for several criteria and HAP pollutants in the original permit. Revised modeling is required after stack testing is completed in the next few months. Since this amendment either shows emission decreases, no change, or a small SO₂ and HCL increase, and revised modeling will be completed shortly, then modeling was not conducted for this amendment.

The emission rerouting affects Special Conditions 12, 14, 18, and 19 in the existing permit. For clarity all special conditions have been restated in this amendment. Table 18 has also been revised and is included below.

Table 18: Emission Unit Summary

Emission Unit	Control Device	Emission Point	Description	Short Term MHDR	Long Term MHDR
Natural gas combustion (mmbtu/hr input)					
F-3201	N/A	S-05	Steam boiler 1	confidential	
F-8001		S-06	Steam boiler 2		
F-0313		S-24	Asphalt heater at tank TK-0310		
F-0323		S-25	Asphalt heater at tank TK-0320		
F-0807		S-26	Asphalt heater at tank TK-0810		
F-3800		S-07	Thermal fluid heater 1		
F-4200		S-08	Thermal fluid heater 2		
H-4		S-15	Mat preheater		

H-31			Office HVAC	
H-32			Office hood	
H-33			Office lab gas	
H-39 to H-44		S-39 to S-44	Office air handling	
H-46			Front office water heater	
H-35, H-45			Manufacturing make-up air	
H-36			Maintenance water heater	
H-37			Boiler room HVAC	
H-38			Boiler room laboratory gas	
F-3711		S-03	Blow stills thermal oxidizer CTRL-7	
B-6005		S-21	Regenerative thermal oxidizer RTO CTRL-12	
Limestone, sand, granules, polymer receiving (tph)				
TK-1510	CTRL-2	S-04	Pneumatic limestone receiving and silo 1	confidential
TK-1520			Pneumatic limestone receiving and silo 2	
TK-1610	CTRL-4	S-13	Limestone cold filler bin	
U-1605	CTRL-3	S-14	Limestone fluidized bed heater	
TK-1602			Limestone hot filler bin	
TK-1710	CTRL-1	S-01	Pneumatic sand receiving and silo	
U-1309	CTRL-14	S-10	Polymer supersack receiving 1, for laminate	
U-1109	CTRL-15	S-11	Polymer supersack receiving 2, for windseal	
UL1, UL2	N/A	DP1	Gravity receiving pits 1 and 2	
DP1	enclosure		Pits to conveyor 1	
DP2	N/A	DP2	Conveyor 1 to tripper car	
DP3	N/A	DP3	Tripper car to silos	
DP4	N/A	DP4	Silos to conveyor 2: colored granules	
DP5	N/A	DP5	Silos to conveyor 3: headlap, shadowline	
HLS-1, GS-1	CTRL-6	S-34	Conveyor 2 and Conveyor 3 to day bins	
TK-1810			Day bins to screw/elevator	
FDR-2360			Rotary turret	
FDR-2450			Reclaim screw/elevator	
Asphalt storage, processing (tph)				

RC01 – RC07	N/A	RC01- RC07	Asphalt, AC-20 railcar/truck receiving vents	confidential
TRK01 – TRK07	N/A	TRK01 – TRK07	Oxidized asphalt railcar/truck shipping vents	
TK-0310	CTRL-5, 11, 12	S-21	Flux asphalt tank	
TK-0320			Flux asphalt tank	
TK-0410			Recycled oil tank	
TK-0510			Mix tank	
TK-0520			Mix tank	
TK-9420			Flux mist eliminator condensate tank	
TK-0420	N/A	TK-0420	Ferric chloride solution tank	
R-0610	CTRL-7	S-03	Blowing still 1	
R-0620			Blowing still 2	
TK-3610			Blow still 1 knockout tank	
TK-3620			Blow still 2 knockout tank	
TK-3640			Blow still 1 drying tank	
TK-3650			Blow still 2 drying tank	
TK-3670	N/A	TK-3670	Blow still condensate tank	
TK-0810	CTRL11,12	S-21	Oxidized asphalt tank	
TK-8420			Oxidized asphalt tank	
TK-8430			Oxidized asphalt tank	
TK-1010			AC-20 asphalt tank	
A-0905			Horizontal coating mixer	
TK-0920			Vertical surge tank (contains a mixer)	
TK-6010			Manufacturing line mist eliminator condensate tank	
TK-3710	*	*	Hot Oil catch tank 1	
TK-3815	*	*	Hot Oil catch tank 2	
TK-4215	*	*	Hot Oil catch tank 3	
TK-3700	*	*	Hot Oil expansion tank 1	
TK-3810	*	*	Hot Oil expansion tank 2	
TK-4210	*	*	Hot Oil expansion tank 3	
TK-1210	CTRL 13,11,12	S-21	Windseal day/mix tank	
TK-1110			Windseal batch/mix tank	
TK-1220			Windseal use/mix tank	
TK-1410			Laminate day/mix tank	
TK-1310			Laminate batch/mix tank	
TK-1420			Laminate use/mix tank	

Emission units at the line itself (tph of noted material)				
U-8601	CTRL-8	S-15	Fiberglass mat unwinding and splicing	confidential
U-8602			Fiberglass mat looping	
U-8710	CTRL11,12	S-21	Coater (tph oxidized asphalt)	
FLT-5870	CTRL 9,10	S-30	Surfacing (tph oxidized asphalt)	
U-8751	N/A	SCOOL3	Cooling section (tph oxidized asphalt)	
U-8803	CTRL 13,11,12	S-21	Windseal application (tph modified asphalt)	
U-8903			Laminate application south (tph modified asphalt)	
U-8904			Laminate application north (tph modified asphalt)	
U-8805	N/A	PA-1	Paint strip for nailing guide (tph paint)	
Other emission units				
E-2715	N/A	S-23	Cooling tower (gph)	confidential
P-2510	N/A	S-22	Diesel firepump (hp)	
DTank01	N/A	DTank01	Diesel tank (gph)	
HRoad	cleaning	Hroad	Paved haul roads	

After the original permit was issued, 10 CSR 10-6.260 *Restriction of Emission of Sulfur Compounds* was rescinded in the CSR. Replacing that rule is 10 CSR 10-6.261 *Control of Sulfur Dioxide Emissions*. However, 6.260 remains in the Missouri SIP and 6.261 is not yet in the SIP. The installation is subject to each rule until the SIP is updated. 6.260 applicability is discussed in the previous permit. 6.261 only applies to sources emitting SO₂, therefore emission units vented to mist eliminators CTRL-10 and CTRL-11 are not subject. The cooling section and cooling tower are also not subject. Thermal oxidizer CTRL-7 and RTO CTRL-12 are subject to 6.261. However the rule does not contain emission limits for these sources.

A confidentiality request was granted for material throughput limits and plant capacity. This is the redacted public permit amendment. A confidential version is available under project 2016-04-005.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified

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mail, it will be deemed filed on the date it is received by the administrative hearing commission, whose contact information is: Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: www.oa.mo.gov/ahc.

If you have any questions regarding this amendment, please do not hesitate to contact David Little, at the department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Kendall B. Hale
Permits Section Chief

KBH:dlj

Enclosures

c: St. Louis Regional Office
PAMS File: 2016-04-004