Permit No. 4351

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Emission *	Source	Air	Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
ANI-FLR373	NO _x Flare Discharge	(6)	(7)	VOC	0.27
	01.10		Aniline	0.02	0.09
			Benzene	0.81	2.00
			Nitrobenzene	0.08	0.18
			Cyclohexanone	<0.01	0.02
			NO_x	77.38	168.49
			CO	5.95	8.43
			SO_2	0.60	0.89
			H₂S	<0.01	<0.01
			NH ₃	0.01	0.03
ANI-FLR373	NO_{x} Flare Discharge 1.18	(6)	(8) Aniline	VOC 0.02	0.27
			Benzene	0.81	3.47
			Nitrobenzene	0.08	0.34
			Cyclohexanone	<0.01	0.02
			NO_x	89.72	385.64
			CO	5.95	24.29
			SO_2	0.60	2.63
			H_2S	<0.01	<0.01
			NH_3	0.01	0.03
ANI-FLR296	DHN Emergency Flare		Emergency Use (Only	
ANI-ABS62	Ammonia Scrubber		Aniline	<0.01	<0.01

Emission	Source	Air Contaminant	<u>Emissior</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		Benzene	0.43	1.31
		Nitrobenzene	0.02	0.05
		Pheno1	0.01	<0.01
		NH ₃ 2.40	10.51	
ANI-FDHN	DHN Fugitives (4)	Benzene	1.06	4.63
	-	Nitrobenzene	0.44	1.92
ANI-FANMFG	Aniline Fugitives (4)) Aniline	1.26	5.52
	_	Benzene	0.19	0.85
		Nitrobenzene	0.55	2.42
		m-phenylenediami	ne<0.01	0.02
ANI-TFX261	Nitrobenzene Storage	Nitrobenzene	0.60	0.14
ANI-VNT297	DHN Sump	Benzene	<0.01	<0.01
	·	Nitrobenzene	<0.01	<0.01
ANI-VNT298	PNP Extractor (5)	Benzene	<0.01	<0.01
		Nitrobenzene	<0.01	<0.01
		Nitric Acid	<0.01	<0.01
ANI-TFX299	PNP Extractor Storage <0.01	e (5) Nitrobenz	ene	0.01
ANI-FIL190	Filter and Thickener Vent	Aniline	0.50	2.19
ANI-FNOXFL	NO _x Flare Fugitive (4	l) Aniline	<0.01	<0.01
	,	Benzene	0.01	0.06
		Nitrobenzene	<0.01	0.01
		NH ₃	<0.01	<0.01
ANI-STR69A	Wastewater Column Ver	nt No. 1 Anil	ine	<0.01

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
		Benzene Nitrobenzene	<0.01 <0.01	<0.01 <0.01
ANI-STR69B	Wastewater Column Ve <0.01	nt No. 2 Ani	line	<0.01
		Benzene Nitrobenzene	<0.01 <0.01	<0.01 <0.01

Emission	Source A	Air Contaminant	<u>Emissio</u>	n Rates
<u>*</u> <u>Point No. (1)</u>	Name (2)	Name (3)		TPY
ANI-TFL75	Benzene Bulk Storage 1.73 Vent	Tank Be	enzene	0.59
ANI-TFX290	Reactor Nitrobenzene Feed Tank	Benzene Nitrobenzene	0.01 0.05	<0.01 <0.01
ANI-TFX282	Purge Column Feed Tan Vent	k Aniline	<0.01	0.01
ANI-TFX193	West Aniline Extracto Hold Tank Vent	r Aniline	<0.01	<0.01
ANI-TF189E	East Wastewater Tank	Vent Ar	niline	<0.01
	<0.01	Benzene Nitrobenzene	0.04 <0.01	0.01 <0.01
ANI-TF2561	Aniline Crude Analysi Tank Vent No. 1	s Aniline	0.37	0.22
ANI-TF2562	Aniline Crude Analysi Tank Vent No. 2	s Aniline	0.37	0.22
ANI-TFX74	Wastewater Column OVH Separator	D Aniline Benzene Nitrobenzene	<0.01 <0.01 <0.01	<0.01 <0.01 <0.01
ANI-TFX194	Aniline Extractor Fee Tank Vent	d Aniline	<0.01	<0.01
ANI-TFX255	Aniline Rework Storag Tank Vent	e Aniline	0.14	0.11
ANI-TFX259	Aniline Safety Tank V	ent Aniline	0.08	0.01

ANI-VNT196

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

0.30

0.01

<0.01

< 0.01

0.07

<0.01

< 0.01

< 0.01

Air Contaminant **Emission** Emission Rates Source Point No. (1) Name (2) Name (3) 1b/hr **TPY** Aniline ANI-TFX260 Crude Aniline Storage 0.63 0.19 Tank Vent Coarse Water Feed Tank Aniline <0.01 ANI-TFX283 <0.01 Vent ANI-TFX73 East Aniline Extractor Aniline <0.01 < 0.01 Hold Tank Vent Water Draw-Off Tank Vent Aniline ANI-TFX72 <0.01 <0.01 ANI-TFX70 Catalyst Mix Tank Vent Aniline 0.04 < 0.01 ANI-LSH340 Aniline Ship Loading Aniline 0.58 < 0.01 Aniline Truck Loading ANI-LTR98 Aniline 0.28 0.01 0.37 <0.01 Benzene Nitrobenzene 0.02 <0.01 Aniline Barge Loading Aniline ANI-LBA96 1.75 0.33 ANI-LRC195 Rework Railcar Loading Aniline 0.26 < 0.01 ANI-LRC97 Aniline Railcar Loading Aniline 0.36 0.06 Nitrobenzene 0.190.01 Aniline ANI-LTR99 Tar Loading 0.04 <0.01 m-phenylenediamine<0.01 <0.01

Aniline Building Process Aniline

Benzene

Pheno1

Nitrobenzene

Water Sump Vent

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
ANI-TFX301	Consolidated Effluen Tank Vent	t Aniline Benzene Nitrobenzene	<0.01 <0.01 <0.01	<0.01 <0.01 <0.01
ANI-ADS76E	East Desulfur Drum V	ent H₂S	0.09	0.40
ANI-ADS76W	West Desulfur Drum V	ent H₂S	0.09	0.40
ANI-CT208A	Aniline Cooling Towe South Stack	r VOC	0.21	0.91
ANI-CT208B	Aniline Cooling Towe Center Stack	r VOC	0.21	0.91
ANI-CT208C	Aniline Cooling Towe North Stack	r VOC	0.21	0.91
ANI-CT208D	Aniline Cooling Towe New Stack	r VOC	0.24	1.05
ANI-FCOOLT	Aniline Cooling Towe Fugitive	r VOC	0.04	0.20
ANI-CTF286	Centrifuge Vent	Benzene Nitrobenzene	<0.01 0.04	0.01 0.18
ANI-DCN257	Aniline Product Deca	nter Aniline	<0.01	<0.01
ANI-DCN258	Aniline Off-Spec Dec <0.01 Vent	anter Ani	line	<0.01
ANI-F1304	Aniline T/C Spot 130 Fugitive (4)	4 Aniline	0.02	0.10

Emission	Source Ai	r Contaminant	<u>Emissic</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
ANI-FANAL	Aniline Analysis Area Fugitive (4)	Aniline	0.13	0.57
ANI-FANBLK	Aniline Bulk Storage Area Fugitive (4)	Aniline	0.12	0.51
ANI-FBARGE	Aniline Barge Loading Fugitive (4)	Aniline Benzene	0.01 0.08	0.03 0.36
ANI-FBZBLK	Aniline Benzene Bulk Storage Tank Fugitive	Benzene e (4)	0.04	0.18
ANI-FCRDTF	Aniline Crude Tank Farm Fugitive (4)	n Aniline Benzene Nitrobenzene	0.19 0.01 0.35	0.84 0.06 1.53
ANI-FPRCBL	Aniline PRC Battery Limit Fugitive (4)	Aniline Benzene Nitrobenzene	<0.01 <0.01 0.01	0.02 0.02 0.04
ANI-FRRTUN	Aniline RR/Truck Unload Fugitive (4)	d Aniline Benzene Nitrobenzene	0.06 <0.01 <0.01	0.26 <0.01 0.05
ANI-FSHIP	Aniline Ship Loading Fugitive (4)	Aniline	<0.01	0.02
ANI-FSITE	Aniline OSBL Fugitive 0.06	(4) Ani	line	0.01
	0.00	Benzene	0.03	0.14
ANI-RFM77	Hydrogen Reformer Exha 0.96	ıst	VOC	0.22
		NO _x CO	10.91 2.73	47.77 11.94

Emission	Source	Air Contaminant	<u>Emissi</u>	<u>ion Rates</u>
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
		SO_2 PM_{10}	0.05 0.39	0.20 1.71
ANI-STK169	Ammonia Blowdown Po 0.06	t Vent	NH₃	4.79
ANI-STK83	AOP Abater Discharg	e VOC NO _x SO ₂	1.84 44.28 1.63	8.05 126.47 7.15
ANI-TFX84	Reactor Catalyst Fe 0.02	ed Tank	Aniline	0.18

${\tt EMISSION} \ \ {\tt SOURCES} \ \ {\tt -} \ \ {\tt MAXIMUM} \ \ {\tt ALLOWABLE} \ \ {\tt EMISSION} \ \ {\tt RATES}$

Emission *	Source	Air Contaminant	<u>Emissic</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
ANI-TFX85	Thickener Feed Stora Tank	ge Aniline	0.12	0.01
ANI-TFX90	Alternate Wastewater Diversion Tank	Aniline Benzene Nitrobenzene	<0.01 0.03 <0.01	<0.01 <0.01 <0.01
ANI-TFX91A	Aniline Bulk Storage Tank - North	Aniline	1.49	0.27
ANI-TFX91B	Aniline Bulk Storage Tank - South	e Aniline	1.49	0.27
ANI-TFX92A	Aniline No. 1 Analys Storage Tank	is Aniline	0.73	0.10
ANI-TFX92B	Aniline No. 2 Analys Storage Tank	is Aniline	0.73	0.10
ANI-TFX92C	Aniline No. 3 Analys Storage Tank	is Aniline	0.33	0.05
ANI-XTR288	1st Stage Aniline Extractor Vent	Aniline Nitrobenzene	<0.01 <0.01	<0.01 <0.01
ANI-XTR289	2nd Stage Aniline Extractor Vent	Aniline Nitrobenzene	<0.01 <0.01	<0.01 <0.01
ANI-TFX192	Tar Tank Vent	Aniline m-phenylenediami	<0.01 ne<0.01	<0.01 <0.01
ANI-VNT78	Hydrogen Plant Vent Header Discharge	VOC (6) Aniline Benzene NO _x	1.73 1.41 0.03 8.07	1.09 4.59 0.09 9.85

Emission	Source Air	Contaminant	<u>Emissic</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
ANI-TFX205	Acid Recovery Tank Vent	CO Benzene Nitrobenzene H ₂ SO ₄	7.04 <0.01 <0.01 <0.01	6.88 <0.01 <0.01 <0.01
ANI-VNT264	AOP NO _x Analyzer Vent	NO	<0.01	<0.01
ANI-VT263A	AOP Oxygen Analyzer Vent	NO N ₂ O NO _x	<0.01 <0.01 <0.01	<0.01 <0.01 <0.01
ANI-VNT99	Calgon Steamer Organic Tank Vent	Aniline Benzene Nitrobenzene	2.2 1.85 2.2	<0.01 <0.01 <0.01
ANI-GAUZHS	Gauze Pickling House Vent		нс1	<0.01
	<0.01	Formic Acid	<0.01	<0.01
ANI-LTR95	Nitric Truck Loading	NO_x	0.25	0.01
ANI-TFX101	Strong H₂SO₄ Storage Tank Vent	H ₂ SO ₄	<0.01	<0.01
ANI-VT263B	AOP Methane Analyzer Ver	nt	NO_x	<0.01
ANI-STR186	Regeneration Column Vent	Diethanolamine	1.71	7.5
ANI-FANFLR	Aniline Flare Fugitives	(4) Ar	niline	<0.01
	0.02	Cyclohexanone	<0.01	<0.01
ANI-FLR374	Aniline Flare (6)	VOC Aniline	1.01 0.14	4.42 0.60

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissic</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	 1b/hr	TPY
		Benzene Cyclohexanone NO _x CO SO ₂	0.06 0.01 4.82 18.79 <0.01	0.25 0.06 21.12 82.32 0.02
ANI-AN262A	Aniline Reactor Off Analyzer Vent	NH ₃ -Gas Aniline Benzene Cyclohexanone Phenol NH ₃	0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.02 <0.01 <0.01 <0.01 <0.01

- (1)Emission point identification - either specific equipment designation or emission point number from plot plan.
- Specific point source name. For fugitive sources use area name (2) or fugitive source name.
- (3) V0C volatile organic compounds as defined in General Rule 101.1

 NO_x - total oxides of nitrogen

CO carbon monoxide sulfur dioxide SO₂ - hvdrogen sulfide H₂S

 NH_3 ammonia

- particulate matter less than 10 microns in diameter PM_{10}

H₂SO₄ - hydrogen sulfate nitrogen oxide NO N_2O nitrous oxide

hydrogen chloride HC1

- Fugitive emissions are an estimate only and should not be (4) considered as a maximum allowable emission rate.
- Hours of operation are limited to 2,190 hours per year. (5)
- The VOC emission estimates do not include emissions of VOC which (6) are specifically identified by chemical name.
- Emission limit for the NO_x Flare Discharge (EPN ANI-FLR373) prior (7)

EMISSIONMSOURONSSOURIAKSMUMMAKIOWMBAELOWABSEONMRASEON RATES

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
(8) Emiss	ion limit for th	rator in Hazardous Waste Perm he NO _x Flare Discharge (EPN <i>F</i> or in Hazardous Waste Permit I	ANI-FLR373)	
	ion rates are ba maximum operatin	ased on and the facilities ar ng schedule:	e limited	by the
Hrs/da	y Days/weel	k Weeks/year or <u>8,760</u>	Hrs/year	
		Dated		