Arizona Chemical

Title V Operating Permit Renewal

Facility ID No. 0050001

Insignificant Units Emissions Calculations

Project: Panama City Title V Renewal

Verified	Process Line	Permit No.	Emission Point Number	Original Title V application ID Number	Emission Unit or Control Unit Number	Emission Unit	Process Rate Mgal/yr	Working Loss (lb)	Emission Factor HAP Working lb/Mgal	Emission Factor HAP Breathing lb/12 month	Emission Factor VOC Working or Loading lb/Mgal	Emission Factor VOC Breathing lb/12 month	Emissions HAP tons per year	Emissions VOC tons per year
X	Crude Tall Oil Plant	050001-015-AV	ETO1	TO-DRM-01	DTO1	tall oil scales	6071.43	85.00			0.014			0.043
X	Crude Tall Oil Plant	050001-015-AV	E143	CTO-100-143	T143	pulp tank, 100-143A	9583.44	3862.12			0.403	4.64		1.933
X	Crude Tall Oil Plant	050001-015-AV	E406	CTO-M-406A	T406	M-406A	0.00	0.00			0.419	16.55		0.008
X	Crude Tall Oil Plant	050001-015-AV	E406	CTO-M406B	T406	spent acid tank M-406B	9583.44	1533.35			0.16	24.77		0.779
X	Crude Tall Oil Plant	050001-015-AV	EBLS	CTO-100-142	TBLS	black liquor receiver, 100-142	0.00	0.00			0.16	1.14		0.001
X	Crude Tall Oil Plant	050001-015-AV	EBLS	CTO-CV-01	TBLS	black liquor soap tank M-401A	0.00	0.00			0.16	16.97		0.008
X	Crude Tall Oil Plant	050001-015-AV	EBLS	CTO-CV-01	TBLS	black liquor soap tank M-401C	0.00	0.00			0.16	37.68		0.019
X	Crude Tall Oil Plant	050001-015-AV	EBLS	CTO-CV-01	TBLS	black liquor soap tank M-123	31963.96	5114.23			0.16	24.77		2.570
X	Crude Tall Oil Plant	050001-015-AV	EBLS	CTO-M-127	TBLS	black liquor tank M-127	0.00	0.00			0.16	5.94		0.003
X	Crude Tall Oil Plant	050001-015-AV	EFTW	CTO-100-112	TFTW	flash tower liquid level tank, 100-112	0.00	0.00			0.108	0.10		0.000
X	Crude Tall Oil Plant	050001-015-AV	EFTW	CTO-100-113A	TFTW	washed oil decanter, 100-113	0.00	0.00			2.111	38.52		0.019
X	Crude Tall Oil Plant	050001-015-AV	EFTW	CTO-100-113B	TFTW	washed oil decanter, 100-113	0.00	0.00			3.986	73.34		0.037
X	Crude Tall Oil Plant	050001-015-AV	EFTW	CTO-100-115	TFTW	wash oil feed tank, 100-115	0.00	0.00			3.986	3.65		0.002
X	Crude Tall Oil Plant	050001-015-AV	EFTW	CTO-100-149	TFTW	water surge tank, 100-149	0.00	0.00			4.435	4.13		0.002
X	Fatty Acid Upgrade Plant	050001-015-AV	EKFT	EST-DRM-01	KFAT	drum filling, soap spout		0.00			0.016			0.000
X	Fatty Acid Upgrade Plant	050001-015-AV	EKFT	EST-DRM-02	KFAT	drum fulling, blend spout	4314.57	465.97			0.108			0.233
X	Fatty Acid Upgrade Plant	050001-015-AV	EKFT	EST-DRM-03	KFAT	drum filling, ester spout	11571.43	2823.43			0.244			1.412
X	Railcar/truck loading	050001-015-AV	LOAD	G370-TT-01	LOAD	G-370 tank truck loading station	954.00	228.96			0.24			0.114
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-01	LOAD	DRS tank truck loading station	954.00	13.36			0.014			0.007
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-02	LOAD	tank car loading station	954.00	15.26			0.016			0.008
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-03	LOAD	tank car loading station	954.00	13.36			0.014			0.007
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-04	LOAD	tank car loading station	954.00	15.26			0.016			0.008
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-12	LOAD	tank car loading station	2058.27	28.82			0.014			0.014
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-13	LOAD	tank car loading station	954.00	13.36			0.014			0.007
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-14	LOAD	tank car loading station	954.00	13.36			0.014			0.007
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-15	LOAD	tank car loading/unloading station	954.00	0.00			0			0.000
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-16	LOAD	tank car loading station	954.00	13.36			0.014			0.007
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-17	LOAD	tank car loading station	954.00	13.36			0.014			0.007
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-18	LOAD	tank car loading station	954.00	13.36			0.014			0.007
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-19	LOAD	tank car loading station	954.00	13.36			0.014			0.007
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-20	LOAD	tank car loading station	954.00	228.96			0.24			0.114
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-21	LOAD	tank car loading station	954.00	232.78			0.244			0.116
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-22	LOAD	tank car loading/unloading station	1446.43	352.93			0.244			0.176
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-23	LOAD	tank car loading/unloading station	1446.43	352.93			0.244			0.176
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-24	LOAD	tank car loading/unloading station	1446.43	352.93			0.244			0.176
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-25	LOAD	tank car loading/unloading station	1446.43	352.93			0.244			0.176
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TC-27	LOAD	tank car loading/unloading station	1446.43	352.93			0.244			0.176
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TT-02	LOAD	tank truck loading station	954.00	15.26			0.016			0.008
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TT-03	LOAD	tank truck loading station	954.00	13.36			0.014			0.007

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Insignificant Units Emissions Calculations

Title V Operating Permit Renewal

Facility ID No. 0050001

Project: Panama City Title V Renewal

Verified	Process Line	Permit No.	Emission Point Number	Original Title V application ID Number	Emission Unit or Control Unit Number	Emission Unit	Process Rate Mgal/yr	Working Loss (lb)	Emission Factor HAP Working lb/Mgal	Emission Factor HAP Breathing lb/12 month	Emission Factor VOC Working or Loading lb/Mgal	Emission Factor VOC Breathing lb/12 month	Emissions HAP tons per year	Emissions VOC tons per year
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TT-05	LOAD	tank truck loading station	954.00	13.36			0.014			0.007
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TT-08	LOAD	tank truck loading station	954.00	13.36			0.014			0.007
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TT-12	LOAD	tank truck load/unloading station	1446.43	352.93			0.244			0.176
X	Railcar/truck loading	050001-015-AV	LOAD	LUL-TT-13	LOAD	tank truck loading station	1446.43	352.93			0.244			0.176
X	Rosin Upgrade Plant	050001-015-AV	E370	G370-DRM-01	D370	G-370 drum filling	6071.43	85.00			0.014			0.043
X	Rosin Upgrade Plant	050001-015-AV	EROS	RT-DRM	DROS	rosin drum loading station	417.14	6.67			0.016			0.003
X	Rosin Upgrade Plant	050001-015-AV	EAQU	AQ-DRM-01	KAQU	aquatac scales	1798.56	0.00			1.87562E-06			0.000
X	Rosin Upgrade Plant	050001-015-AV	EAQU	AQ-QM5	KAQU	surfactant mix tank QM5	1798.56	0.25			0.000136619	0.00		0.000
X	Rosin Upgrade Plant	050001-015-AV	EAQU	AQ-QRE	KAQU	aqua tac reactor, QRE		0.00						0.112
X	Rosin Upgrade Plant	050001-015-AV	EAQU	AQ-QM-007	KAQU	storage tank, QM-007	1798.56	282.37			0.157	1.32		0.142
X	Rosin Upgrade Plant	050001-015-AV	EAQU	AQ-QM-008	KAQU	storage tank, QM-008	1798.56	282.37			0.157	1.32		0.142
X	Rosin Upgrade Plant	050001-015-AV	ESOP	SOAP-M-3	KSOP	DRS hold tank M-3	3597.12	500.28			0.139078947	0.96		0.251
X	Rosin Upgrade Plant	050001-015-AV	ESOP	SOAP-M-4-A011	KSOP	DRS reactor M-4		0.00						0.047
X	Rosin Upgrade Plant	050001-015-AV	ERAD	G370-M-378A	TRAD	M-378A additive mix tank	6.50	1.34			0.206	208.57		0.105
X	Rosin Upgrade Plant	050001-015-AV	ERAD	G370-M-378B	TRAD	M-378B additive mix tank	1.38	2.00			1.452	208.57		0.105
X	Rosin Upgrade Plant	050001-015-AV	ERAD	G370-M-378C	TRAD	M-378C add mixing	1.38	1.58			1.146	208.57		0.105
X	Rosin Upgrade Plant	050001-015-AV	ERAD	G370-M-378D	TRAD	M-378D additive mix tank	1.38	1.58			1.146	208.57		0.105
X	Rosin Upgrade Plant	050001-015-AV	ERAD	G370-M-378E	TRAD	M-378E additive mix tank	1.38	1.58			1.146	208.57		0.105
X	Rosin Upgrade Plant	050001-015-AV	ERAD	G370-M-378F	TRAD	M-378F additive mix tank	12.63	1.99			0.158	208.57		0.105
X	Rosin Upgrade Plant	050001-015-AV	ERAD	G370-M-378H	TRAD	M-378H add tank	12.63	1.99			0.158	208.57		0.105
X	Rosin Upgrade Plant	050001-015-AV	ERAD	G380-M-381	TRAD	M-381 glycerin holding tank	38.75	15.66			0.404	64.40		0.040
X	Rosin Upgrade Plant	050001-015-AV	ERAD	G380-M-388E	TRAD	M-388E additive mix tank	12.63	1.99			0.158	208.57		0.105
X	Rosin Upgrade Plant	050001-015-AV	ERAD	RT-EC-412-MELT	TRAD	EC-412 melt pot	12.63	1.99			0.158	208.57		0.105
X	Rosin Upgrade Plant	050001-015-AV	ERAD	RT-EC-412-MIX	TRAD	EC-412 mix pot	12.63	1.99			0.158	208.57		0.105
X	Rosin Upgrade Plant	050001-015-AV	ERAD	RT-M-353	TRAD	glycerine	625.00	1.88			0.003	0.10		0.001
X	Rosin Upgrade Plant	050001-015-AV	ERAD	RT-TK-VULT	TRAD	vultac additive mix tank	300.00	31.50			0.105	1.30		0.016
X	Rosin Upgrade Plant	050001-015-AV	ERAD	G370-M-370	TRAD	M-370 rosin holding tank	4250.00	1.96			0.000460973	208.57		0.105
X	Rosin Upgrade Plant	050001-015-AV	ERAD	G370-M-371	TRAD	M-371 glycerin holding tank	38.75	1.12			0.029	208.57		0.105
X	Rosin Upgrade Plant	050001-015-AV	ERAD	TO-EL-201	TRAD	M-378C add mixing	5256.00	84.10			0.016	0.22		0.042
X	Rosin Upgrade Plant	050001-015-AV	ERPD	G370-M-110	TRPD	product storage tank, M-110	0.00	0.00			0.014	0.27		0.000
X	Rosin Upgrade Plant	050001-015-AV	ERPD	G370-M-131-A	TRPD	product storage tank, M-131-A	0.00	0.00			0.014	0.26		0.000
X	Rosin Upgrade Plant	050001-015-AV	ERPD	G370-M-131-B	TRPD	product storage tank, M-131-B	0.00	0.00			0.014	0.27		0.000
X	Rosin Upgrade Plant	050001-015-AV	ERPD	G370-M-131-C	TRPD	product storage tank, M-131-C	5320.00	74.48			0.014	0.26		0.037
X	Rosin Upgrade Plant	050001-015-AV	ERPD	G370-M-3	TRPD	M-3 DR 22	6022.50	84.32			0.014	208.57		0.146
X	Rosin Upgrade Plant	050001-015-AV	ERPD	G370-M-363	TRPD	material storage tank, M-363	0.00	0.00			0.003	0.10		0.000
X	Rosin Upgrade Plant	050001-015-AV	ERPD	G370-M-373-A	TRPD	material and product tank, M-373-A	0.00	0.00			0.014	0.26		0.000
X	Rosin Upgrade Plant	050001-015-AV	ERPD	G370-M-373-B	TRPD	material and product tank, M-373-B	0.00	0.00			0.014	0.26		0.000
X	Rosin Upgrade Plant	050001-015-AV	ERPD	G370-M-373-C	TRPD	M-373C product storage tank	0.00	0.00			0.014	0.26		0.000
X	Rosin Upgrade Plant	050001-015-AV	ERPD	G370-QM-1	TRPD	QM-1 storage (material or product)	0.00	0.00			0.014	0.21		0.000

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X	Rosin Upgrade Plant	050001-015-AV	ERPD	G370-QM-2	TRPD	QM-2 storage (material or product)	0.00	0.00			0.014	0.21		0.000
X	Rosin Upgrade Plant	050001-015-AV	ERPD	G370-QM-3	TRPD	QM-3 storage tank	0.00	0.00			0.014	0.21		0.000
X	Semi-Commercial Plant	050001-015-AV	ESCP	SCP-M-158-A018	TSCP	Terpene storage tank m-158	15.63	3.28			0.21	1.77		0.003
X	Semi-Commercial Plant	050001-015-AV	ESCP	SCP-M-159-A018	TSCP	Terpene storage tank m-159	15.63	3.28			0.21	1.77		0.003
X	Semi-Commercial Plant	050001-015-AV	ESCP	SCP-M-160-A018	TSCP	Terpene storage tank m-160	15.63	3.28			0.21	1.77		0.003
X	Semi-Commercial Plant	050001-015-AV	ESCP	SCP-M-161-A018	TSCP	Terpene storage tank m-161	15.63	3.28			0.21	1.77		0.003
X	Semi-Commercial Plant	050001-015-AV	ESCP	SCP-M-202-A018	TSCP	solvent storage tank m-202	150.62	0.00	0.489	9.66			0.04166	0.042
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-M-386	T033	M- 386 skim oil storage for TOFA scrubber	0.00	0.00			0.016	0.38		0.000
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-MD-10	T033	skim oil MD-10	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-MD-11	T033	FA 7001 MD-11	7870.25	110.18			0.014	0.36		0.055
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-MD-12	T033	Dimer acid MD-12	125.00	2.50			0.02	0.50		0.002
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-MD-17	T033	skim oil MD-17	625.00	10.00			0.016	0.41		0.005
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-MD-8	T033	RB-85/CTO MD-8	0.00	0.00			0.157	4.79		0.002
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-100-2	T033	DFA feed tank 100-2	12318.75	825.36			0.067	189.69		0.508
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-100-41B	T033	filter aid tank 100-41B	2281.25	31.94			0.014	23.45		0.028
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-EL-202	T033	EL 202 seal oil recirculating tank	5256.00	84.10			0.016	0.22		0.042
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-EL-302	T033	EL 302 seal oil recirculating tank	0.01	0.00			0.016	0.00		0.000
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-HX-34CD-TK	T033	TD-34 C,D, portable recirculating tank	9000.00	1413.00			0.157	4.79		0.709
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-MC-6A	T033	`	1998.38	27.98			0.014	0.22		0.014
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-MD-25	T033	MD-25 tank	9000.00	1413.00			0.157	4.79		0.709
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-MD-6	T033	#1 plant, MD-6 tank	9052.00	144.83			0.016	0.05		0.072
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-TK-TD-34AB	T033	TD-34 A,B, portable recirculating tank	9000.00	1413.00			0.157	4.79		0.709
X	Tall Oil Miscellaneous	050001-015-AV	ET33	TO-TO-14	T033	TO-14 portable recirculation tank	9000.00	1413.00			0.157	4.79		0.709
X	Tall Oil Miscellaneous	050001-015-AV	EMIX	TO-MD-43	TMIX	MD-43 blend tank	719.42	0.10			0.000136619	0.00		0.000
X	Tall Oil Miscellaneous	050001-015-AV	EMIX	TO-MD-44	TMIX	MD-44 blend tank	719.42	0.10			0.000136619	0.00		0.000
X	Tall Oil Refinery	050001-015-AV	MC6B	TO-MC-6B	MC6B	MC-6B rosin	1998.38	27.98			0.014	0.22		0.014
X	Tall Oil Refinery	050001-015-AV	ECTO	TO-MD-28	TCTO	CTO MD-28	0.00	0.00			0.108	2.87		0.001
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-15	TFAT	FA MD-15	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-16	TFAT	DFA MD-16	0.00	0.00			0.016	0.48		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-31	TFAT	D30G 100-31	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-34	TFAT	FA3 100-34	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-56-A	TFAT	FA 100-56	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-56-B	TFAT	FA 100-56	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-60-A	TFAT	FA 100-60	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-60-B	TFAT	FA 100-60	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-61A	TFAT	FA blend 100-61A	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-61B	TFAT	FA blend 100-61B	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-63	TFAT	D30G 100-63	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-64	TFAT	D30G 100-64	0.00	0.00			0.016	0.41		0.000

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X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-65-A	TFAT	FA 100-65	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-65-B	TFAT	FA 100-65	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-66-A	TFAT	FA 100-66	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-66-B	TFAT	FA 100-66	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-81-A	TFAT	FA storage tank 100-81	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-81-B	TFAT	FA storage tank 100-81	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-92-A	TFAT	FA storage tank 100-92	9052.00	144.83			0.016	0.41		0.073
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-92-B	TFAT	FA storage tank 100-92	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-94-A	TFAT	FA storage tank 100-94	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-94-B	TFAT	FA storage tank 100-94	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-19	TFAT	DFA MD-19	14600.00	233.60			0.016	1.42		0.118
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-20	TFAT	D 401 R MD-20	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-39	TFAT	FA MD-39	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-41	TFAT	FA MD-41	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-42	TFAT	FA MD-42	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MO-40	TFAT	FA MD-40	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EPCH	CTO-100-001A	TPCH	pitch burn tank A, 100-001A	8212.50	114.98			0.014	0.44		0.058
X	Tall Oil Refinery	050001-015-AV	EPCH	CTO-100-001B	TPCH	pitch burn tank B, 100-001B	8212.50	114.98			0.014	0.44		0.058
X	Tall Oil Refinery	050001-015-AV	EPCH	TO-05	TPCH	pitch storage tank #5	0.00	0.00			0.014	0.47		0.000
X	Tall Oil Refinery	050001-015-AV	EPCH	TO-#1#2-PR-A	TPCH	pitch receiver, #1 and #2 plant	5475.00	76.65			0.014	2.59		0.040
X	Tall Oil Refinery	050001-015-AV	EPCH	TO-#1#2-PR-B	TPCH	pitch receiver, #1 and #2plant	5475.00	76.65			0.014	2.59		0.040
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-MD-13	TTOH	TO heads MD-13	0.00	0.00			0.157	4.79		0.002
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-MD-14	TTOH	TO heads MD-14	3775.25	592.71			0.157	4.79		0.299
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-MD-9	TTOH	TO heads MD-9	0.00	0.00			0.157	4.79		0.002
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-EL-201	TTOH	Light heads	5256.00	84.10			0.016	0.22		0.042
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-VL-601	TTOH	Light heads	5.48	0.19			0.035	0.41		0.000
X	Terpene Refinery	050001-015-AV	ETR4	TR-DRM	DTR4	drums in filling process	357.14	85.71			0.24			0.043
X	Terpene Refinery	050001-015-AV	ETR3	TR-PIN-ALPHA-SEP	TTR3	alpha still separator underflow	821.25	143.72			0.175	6.58		0.075
X	Terpene Refinery	050001-015-AV	ETR3	TR-#1-STG	TTR3	No. 1 storage tank	5500.00	1155.00			0.21	560.06		0.858
X	Terpene Refinery	050001-015-AV	ETR3	TR-#2-STG	TTR3	No. 2 storage tank	7500.00	1290.00			0.172	460.62		0.875
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-101	TTR3	m-101 tank	2162.50	144.89			0.067	75.67		0.110
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-102	TTR3	m-102 tank	487.50	2.93			0.006	3.88		0.003
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-103	TTR3	m-103 tank	1937.50	133.69			0.069	42.21		0.088
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-103	TTR3	m-103 water drainage basin	2500.00	525.00			0.21	0.79		0.263
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-104	TTR3	m-104 tank	875.00	60.38			0.069	77.12		0.069
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-105	TTR3	m-105 tank	1250.00	6.25			0.005	1.62		0.004
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-203	TTR3	m-203 tank	2812.50	337.50			0.12	133.05		0.235
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-204	TTR3	m-204 tank	1287.50	123.60			0.096	106.78		0.115
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-205	TTR3	m-205 tank	2287.50	160.13			0.07	39.08		0.100
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-206	TTR3	m-206 tank	2287.50	13.73			0.006	3.46		0.009
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-207	TTR3	m-207 tank	1875.00	54.38			0.029	57.96		0.056
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-213	TTR3	m-213 tank	1250.00	7.50			0.006	0.60		0.004

Arizona Chemical

Title V Operating Permit Renewal

Facility ID No. 0050001

Insignificant Units Emissions Calculations

Project: Panama City Title V Renewal

Verified	Process Line	Permit No.	Emission Point Number	Original Title V application ID Number	Emission Unit or Control Unit Number	Emission Unit	Process Rate Mgal/yr	Working Loss (lb)	Emission Factor HAP Working lb/Mgal	Emission Factor HAP Breathing lb/12 month	Emission Factor VOC Working or Loading lb/Mgal	Emission Factor VOC Breathing lb/12 month	Emissions HAP tons per year	Emissions VOC tons per year
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-216	TTR3	m-216 tank	875.00	5.25			0.006	10.83		0.008
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-217	TTR3	m-217 tank	1250.00	93.75			0.075	109.17		0.101
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-232	TTR3	m-232 tank	475.00	32.78			0.069	22.32		0.028
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-233	TTR3	m-233 tank	600.00	3.00			0.005	1.68		0.002
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-250	TTR3	m-250 tank	3125.00	218.75			0.07	78.20		0.148
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-251	TTR3	m-251 tank	2287.50	160.13			0.07	39.08		0.100
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-252	TTR3	m-252 tank	625.00	43.13			0.069	38.54		0.041
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-381	TTR3	m-381 tank	43750.00	9056.25			0.207	55.28		4.556
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-382	TTR3	m-382 tank	1250.00	7.50			0.006	1.68		0.005
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-383	TTR3	m-383 tank	2812.50	337.50			0.12	66.63		0.202
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-384	TTR3	m-384 tank	625.00	43.13			0.069	38.54		0.041
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-10	TTR3	TA-10 tank	500.00	2.50			0.005	1.77		0.002
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-105-AN	TTR3	TA-105AN tank	250.00	1.25			0.005	1.62		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-105-AS	TTR3	105 A s tank	250.00	1.25			0.005	1.62		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-2	TTR3	TA-2 horizontal storage tank	428.79	90.05			0.21	560.06		0.325
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-22N	TTR3	TA-22N tank	50000.00	4600.00			0.092	18.86		2.309
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-22S	TTR3	TA-22s tank	437.50	90.56			0.207	39.34		0.065
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-23E	TTR3	TA-23E tank	2500.00	12.50			0.005	1.06		0.007
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-23W	TTR3	TA-23W tank	2500.00	12.50			0.005	1.06		0.007
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-24N	TTR3	TA-24N tank	262.50	1.31			0.005	0.91		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-24S	TTR3	TA-24s tank	287.50	1.44			0.005	1.00		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-25N	TTR3	TA-25N tank	262.50	1.31			0.005	0.91		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-25S	TTR3	TA-25s tank	250.00	1.25			0.005	0.83		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-26	TTR3	TA-26 tank	250.00	51.75			0.207	41.85		0.047
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-29	TTR3	TA-29 tank	67500.00	0.00			0	0.00		0.000
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-2B	TTR3	TA-2B tank	78.79	16.55			0.21	7.80		0.012
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-30	TTR3	TA-30 tank	337.50	23.63			0.07	24.14		0.024
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-31	TTR3	TA-31 tank	200.00	1.00			0.005	1.77		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-4	TTR3	TA-4 tank	10000.00	1700.00			0.17	57.41		0.879
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-5N	TTR3	TA-5N tank	475.00	77.90			0.164	33.37		0.056
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-5S	TTR3	TA-5s tank	175.00	12.08			0.069	11.47		0.012
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-6	TTR3	TA-6 tank	7000.00	1253.00			0.179	105.48		0.679
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-9N	TTR3	TA-9N hor.storage tank	1400.00	176.40			0.126	25.62		0.101
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-9S	TTR3	TA-9S tank	1400.00	176.40			0.126	25.62		0.101
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-106-A	TTR3	106 A conservation	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-106-B	TTR3	106 B conservation	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-HEADSN	TTR3	north heads tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-HEADSS	TTR3	south heads tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-M-6A	TTR3	m-6A acintene tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-M-6B	TTR3	m-6B acintene tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-LIM-M-215	TTR3	m215 underflow (A-8 decanter)	91.25	15.97			0.175	6.58		0.011

Arizona Chemical

Insignificant Units Emissions Calculations

Title V Operating Permit Renewal

Facility ID No. 0050001

Project: Panama City Title V Renewal

Verified	Process Line	Permit No.	Emission Point Number	Original Title V application ID Number	Emission Unit or Control Unit Number	Emission Unit	Process Rate Mgal/yr	Working Loss (lb)	Emission Factor HAP Working lb/Mgal	Emission Factor HAP Breathing lb/12 month	Emission Factor VOC Working or Loading lb/Mgal	Emission Factor VOC Breathing lb/12 month	Emissions HAP tons per year	Emissions VOC tons per year
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-65-A	TFAT	FA 100-65	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-65-B	TFAT	FA 100-65	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-66-A	TFAT	FA 100-66	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-66-B	TFAT	FA 100-66	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-81-A	TFAT	FA storage tank 100-81	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-81-B	TFAT	FA storage tank 100-81	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-92-A	TFAT	FA storage tank 100-92	9052.00	144.83			0.016	0.41		0.073
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-92-B	TFAT	FA storage tank 100-92	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-94-A	TFAT	FA storage tank 100-94	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-94-B	TFAT	FA storage tank 100-94	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-19	TFAT	DFA MD-19	14600.00	233.60			0.016	1.42		0.118
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-20	TFAT	D 401 R MD-20	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-39	TFAT	FA MD-39	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-41	TFAT	FA MD-41	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-42	TFAT	FA MD-42	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MO-40	TFAT	FA MD-40	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EPCH	CTO-100-001A	TPCH	pitch burn tank A, 100-001A	8212.50	114.98			0.014	0.44		0.058
X	Tall Oil Refinery	050001-015-AV	EPCH	CTO-100-001B	TPCH	pitch burn tank B, 100-001B	8212.50	114.98			0.014	0.44		0.058
X	Tall Oil Refinery	050001-015-AV	EPCH	TO-05	TPCH	pitch storage tank #5	0.00	0.00			0.014	0.47		0.000
X	Tall Oil Refinery	050001-015-AV	EPCH	TO-#1#2-PR-A	TPCH	pitch receiver, #1 and #2 plant	5475.00	76.65			0.014	2.59		0.040
X	Tall Oil Refinery	050001-015-AV	EPCH	TO-#1#2-PR-B	TPCH	pitch receiver, #1 and #2plant	5475.00	76.65			0.014	2.59		0.040
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-MD-13	TTOH	TO heads MD-13	0.00	0.00			0.157	4.79		0.002
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-MD-14	TTOH	TO heads MD-14	3775.25	592.71			0.157	4.79		0.299
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-MD-9	TTOH	TO heads MD-9	0.00	0.00			0.157	4.79		0.002
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-EL-201	TTOH	Light heads	5256.00	84.10			0.016	0.22		0.042
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-VL-601	TTOH	Light heads	5.48	0.19			0.035	0.41		0.000
X	Terpene Refinery	050001-015-AV	ETR4	TR-DRM	DTR4	drums in filling process	357.14	85.71			0.24			0.043
X	Terpene Refinery	050001-015-AV	ETR3	TR-PIN-ALPHA-SEP	TTR3	alpha still separator underflow	821.25	143.72			0.175	6.58		0.075
X	Terpene Refinery	050001-015-AV	ETR3	TR-#1-STG	TTR3	No. 1 storage tank	5500.00	1155.00			0.21	560.06		0.858
X	Terpene Refinery	050001-015-AV	ETR3	TR-#2-STG	TTR3	No. 2 storage tank	7500.00	1290.00			0.172	460.62		0.875
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-101	TTR3	m-101 tank	2162.50	144.89			0.067	75.67		0.110
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-102	TTR3	m-102 tank	487.50	2.93			0.006	3.88		0.003
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-103	TTR3	m-103 tank	1937.50	133.69			0.069	42.21		0.088
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-103	TTR3	m-103 water drainage basin	2500.00	525.00			0.21	0.79		0.263
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-104	TTR3	m-104 tank	875.00	60.38			0.069	77.12		0.069
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-105	TTR3	m-105 tank	1250.00	6.25			0.005	1.62		0.004
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-203	TTR3	m-203 tank	2812.50	337.50			0.12	133.05		0.235
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-204	TTR3	m-204 tank	1287.50	123.60			0.096	106.78		0.115
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-205	TTR3	m-205 tank	2287.50	160.13			0.07	39.08		0.100
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-206	TTR3	m-206 tank	2287.50	13.73			0.006	3.46		0.009
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-207	TTR3	m-207 tank	1875.00	54.38			0.029	57.96		0.056
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-213	TTR3	m-213 tank	1250.00	7.50			0.006	0.60		0.004

Arizona Chemical

Title V Operating Permit Renewal

Facility ID No. 0050001

Insignificant Units Emissions Calculations

Project: Panama City Title V Renewal

Verified	Process Line	Permit No.	Emission Point Number	Original Title V application ID Number	Emission Unit or Control Unit Number	Emission Unit	Process Rate Mgal/yr	Working Loss (lb)	Emission Factor HAP Working lb/Mgal	Emission Factor HAP Breathing lb/12 month	Emission Factor VOC Working or Loading lb/Mgal	Emission Factor VOC Breathing lb/12 month	Emissions HAP tons per year	Emissions VOC tons per year
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-216	TTR3	m-216 tank	875.00	5.25			0.006	10.83		0.008
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-217	TTR3	m-217 tank	1250.00	93.75			0.075	109.17		0.101
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-232	TTR3	m-232 tank	475.00	32.78			0.069	22.32		0.028
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-233	TTR3	m-233 tank	600.00	3.00			0.005	1.68		0.002
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-250	TTR3	m-250 tank	3125.00	218.75			0.07	78.20		0.148
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-251	TTR3	m-251 tank	2287.50	160.13			0.07	39.08		0.100
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-252	TTR3	m-252 tank	625.00	43.13			0.069	38.54		0.041
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-381	TTR3	m-381 tank	43750.00	9056.25			0.207	55.28		4.556
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-382	TTR3	m-382 tank	1250.00	7.50			0.006	1.68		0.005
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-383	TTR3	m-383 tank	2812.50	337.50			0.12	66.63		0.202
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-384	TTR3	m-384 tank	625.00	43.13			0.069	38.54		0.041
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-10	TTR3	TA-10 tank	500.00	2.50			0.005	1.77		0.002
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-105-AN	TTR3	TA-105AN tank	250.00	1.25			0.005	1.62		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-105-AS	TTR3	105 A s tank	250.00	1.25			0.005	1.62		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-2	TTR3	TA-2 horizontal storage tank	428.79	90.05			0.21	560.06		0.325
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-22N	TTR3	TA-22N tank	50000.00	4600.00			0.092	18.86		2.309
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-22S	TTR3	TA-22s tank	437.50	90.56			0.207	39.34		0.065
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-23E	TTR3	TA-23E tank	2500.00	12.50			0.005	1.06		0.007
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-23W	TTR3	TA-23W tank	2500.00	12.50			0.005	1.06		0.007
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-24N	TTR3	TA-24N tank	262.50	1.31			0.005	0.91		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-24S	TTR3	TA-24s tank	287.50	1.44			0.005	1.00		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-25N	TTR3	TA-25N tank	262.50	1.31			0.005	0.91		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-25S	TTR3	TA-25s tank	250.00	1.25			0.005	0.83		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-26	TTR3	TA-26 tank	250.00	51.75			0.207	41.85		0.047
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-29	TTR3	TA-29 tank	67500.00	0.00			0	0.00		0.000
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-2B	TTR3	TA-2B tank	78.79	16.55			0.21	7.80		0.012
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-30	TTR3	TA-30 tank	337.50	23.63			0.07	24.14		0.024
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-31	TTR3	TA-31 tank	200.00	1.00			0.005	1.77		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-4	TTR3	TA-4 tank	10000.00	1700.00			0.17	57.41		0.879
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-5N	TTR3	TA-5N tank	475.00	77.90			0.164	33.37		0.056
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-5S	TTR3	TA-5s tank	175.00	12.08			0.069	11.47		0.012
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-6	TTR3	TA-6 tank	7000.00	1253.00			0.179	105.48		0.679
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-9N	TTR3	TA-9N hor.storage tank	1400.00	176.40			0.126	25.62		0.101
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-9S	TTR3	TA-9S tank	1400.00	176.40			0.126	25.62		0.101
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-106-A	TTR3	106 A conservation	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-106-B	TTR3	106 B conservation	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-HEADSN	TTR3	north heads tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-HEADSS	TTR3	south heads tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-M-6A	TTR3	m-6A acintene tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-M-6B	TTR3	m-6B acintene tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-LIM-M-215	TTR3	m215 underflow (A-8 decanter)	91.25	15.97			0.175	6.58		0.011

Arizona Chemical

Insignificant Units Emissions Calculations

Title V Operating Permit Renewal

Facility ID No. 0050001

Project: Panama City Title V Renewal

Verified	Process Line	Permit No.	Emission Point Number	Original Title V application ID Number	Emission Unit or Control Unit Number	Emission Unit	Process Rate Mgal/yr	Working Loss (lb)	Emission Factor HAP Working lb/Mgal	Emission Factor HAP Breathing lb/12 month	Emission Factor VOC Working or Loading lb/Mgal	Emission Factor VOC Breathing lb/12 month	Emissions HAP tons per year	Emissions VOC tons per year
X	Terpene Refinery	050001-015-AV	ETR3	TR-PIN-M-300	TTR3	m-300 WFE liquid tank	821.25	547.77			0.667	25.85		0.287
X	Terpene Refinery	050001-015-AV	ETR3	TR-PIN-POT	TTR3	recycle pot	2737.50	479.06			0.175	6.58		0.243
X	Terpene Refinery	050001-015-AV	ETR3	TR-PIN-ST-1	TTR3	ST-1 tank	1765.52	294.84			0.167	52.69		0.174
X	Terpene Refinery	050001-015-AV	ETR3	TR-PIN-ST-2	TTR3	ST-2 tank	1765.52	294.84			0.167	52.69		0.174
X	Terpene Refinery	050001-015-AV	ETR3	TR-PIN-TA-16	TTR3	TA-16 conservation	1875.00	315.00			0.168	69.95		0.192
X	Terpene Refinery	050001-015-AV	ETR3	TR-PIN-TA-17	TTR3	TA-17 conservation	1875.00	309.38			0.165	70.26		0.190
X	Terpene Refinery	050001-015-AV	ETR3	TR-SPO-M-271	TTR3	m-271	821.25	547.77			0.667	25.85		0.287
X	Terpene Refinery	050001-015-AV	ETR3	TR-SPO-M-303	TTR3	m-303 prop.glycol vertical tank	27500.00	82.50			0.003	0.22		0.041
X	Terpene Refinery	050001-015-AV	ETR3	TR-SPO-M-8	TTR3	m-8	1892.16	331.13			0.175	10.68		0.171
X	Terpene Refinery	050001-015-AV	ETR3	TR-PIN-M-219	TTR3	m-219 tank	2737.50	479.06			0.175	6.58		0.243
X	Terpene Resin Plant	050001-015-AV	EWT1	TR-SPO-#6-SUMP	WWT1	#6 treater effluent sump	0.05	0.00						0.050
X	Terpene Resin Plant	050001-015-AV	EWT1	TR-WW-SUMP	WWT1	effluent sump @lab	1.65							1.650
X	Terpene Resin Plant	050001-015-AV	EWT1	TR-WW-U-CV-01	WWT1	waste water U-drains	0.27							0.270
X	Terpene Resin Plant	050001-015-AV	EWT1	TR-WW-U-CV-01	WWT1	waste water U-drains	0.27							0.270
X	Terpene Resin Plant	050001-015-AV	EWT1	TR-WW-U-CV-02	WWT1	waste water U-drains	0.27							0.270
X	Terpene Resin Plant	050001-015-AV	EWT1	TR-WW-U-CV-04	WWT1	waste water U-drains	0.27							0.270
X	Terpene Resin Plant	050001-015-AV	EWT1	TRP-WW-M-441-A	WWT1	waste water separator tank m-441	55188.00	2562.91			0.046439576	105.30		1.334
X	Terpene Resin Plant	050001-015-AV	EWT1	TRP-WW-M-441-B	WWT1	OCPSF separator tank,M-441	55188.00	2562.91			0.046439576	105.30		1.334
X	Terpene Resin Plant	050001-015-AV	EWT1	TRP-WW-M-442	WWT1	waste water skim tank,south m-442	561.15	2437.64			4.344	411.84		1.425
X	Terpene Resin Plant	050001-015-AV	EWT1	TRP-WW-M-443	WWT1	waste water skim tank, north m-443	561.15	2437.64			4.344	411.84		1.425
X	Utilities - Combustion	050001-015-AV	FUEL	B-600-005	FUEL	BLS	663.73	9.29			0.014	4.94		0.007
X	Utilities - Combustion	050001-015-AV	FUEL	B-PITCH-01	FUEL	0.000	663.73	9.29			0.014	4.94		0.007
X	Utilities - Combustion	050001-015-AV	FUEL	TO-100-20	FUEL	No. 2 fuel oil tank	0.00	0.00			2.976	829.25		0.415
X	Utilities - Combustion	050001-015-AV	FUEL	B-PITCH-02	FUEL	Pitch Storage Tank	663.73	9.29			0.014	4.94		0.007
X	Utilities - Combustion	050001-015-AV	EHTR	HTR-MGD-22	THTR	MGD-22 dow storage	0.00	0.00			1.667	13.96		0.007
X	Utilities - Combustion	050001-015-AV	EHTR	HTR-QM-6	THTR	QM-6 tank	0.00	0.00			0.008	0.06		0.000
X	Utilities - Combustion	050001-015-AV	EHTR	HTR-RECIR-TK	THTR	cool Heat transfer fluid recirculation tank	0.00	0.00			1.786	28.64		0.014
X	Utilities - Combustion	050001-015-AV	EHTR	HTR-STOR-TK	THTR	Heat transfer fluid tank	0.00	0.00			1.786	28.64		0.014
X	Utilities - Combustion	050001-015-AV	EHTR	SCP-HTR-M-159	THTR	0.000	0.00	0.00			1.786	28.64		0.014
X	Utilities - Combustion	050001-015-AV	EHTR	TO-102-4N	THTR	Heat transfer fluid 102-4N storage tank	0.00	0.00			1.786	28.64		0.014
X	Utilities - Combustion	050001-015-AV	EHTR	TO-102-4S	THTR	Heat transfer fluid 102-4S storage tank	0.00	0.00			1.786	39.17		0.020
X	Utilities - Combustion	050001-015-AV	EHTR	TRP-HTR-150-11A	THTR	hot heat transfer fluid surge tank	0.00	0.00			1.786	28.64		0.014
X	Utilities - Combustion	050001-015-AV	EHTR	TRP-HTR-150-18	THTR	cold heat transfer fluid surge tank	0.00	0.00			1.786	28.64		0.014
X	Utilities - Miscellaneous	050001-015-AV	STCL	cLEAN-TC-01	STCL	tank car cleaning station	5172.57	0.04			6.84336E-06			0.000

Arizona Chemical

Title V Operating Permit Renewal

Facility ID No. 0050001

Insignificant Units Emissions Calculations

Project: Panama City Title V Renewal

Verified	Process Line	Permit No.	Emission Point Number	Original Title V application ID Number	Emission Unit or Control Unit Number	Emission Unit	Process Rate Mgal/yr	Working Loss (lb)	Emission Factor HAP Working lb/Mgal	Emission Factor HAP Breathing lb/12 month	Emission Factor VOC Working or Loading lb/Mgal	Emission Factor VOC Breathing lb/12 month	Emissions HAP tons per year	Emissions VOC tons per year
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-216	TTR3	m-216 tank	875.00	5.25			0.006	10.83		0.008
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-217	TTR3	m-217 tank	1250.00	93.75			0.075	109.17		0.101
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-232	TTR3	m-232 tank	475.00	32.78			0.069	22.32		0.028
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-233	TTR3	m-233 tank	600.00	3.00			0.005	1.68		0.002
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-250	TTR3	m-250 tank	3125.00	218.75			0.07	78.20		0.148
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-251	TTR3	m-251 tank	2287.50	160.13			0.07	39.08		0.100
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-252	TTR3	m-252 tank	625.00	43.13			0.069	38.54		0.041
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-381	TTR3	m-381 tank	43750.00	9056.25			0.207	55.28		4.556
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-382	TTR3	m-382 tank	1250.00	7.50			0.006	1.68		0.005
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-383	TTR3	m-383 tank	2812.50	337.50			0.12	66.63		0.202
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-384	TTR3	m-384 tank	625.00	43.13			0.069	38.54		0.041
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-10	TTR3	TA-10 tank	500.00	2.50			0.005	1.77		0.002
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-105-AN	TTR3	TA-105AN tank	250.00	1.25			0.005	1.62		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-105-AS	TTR3	105 A s tank	250.00	1.25			0.005	1.62		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-2	TTR3	TA-2 horizontal storage tank	428.79	90.05			0.21	560.06		0.325
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-22N	TTR3	TA-22N tank	50000.00	4600.00			0.092	18.86		2.309
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-22S	TTR3	TA-22s tank	437.50	90.56			0.207	39.34		0.065
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-23E	TTR3	TA-23E tank	2500.00	12.50			0.005	1.06		0.007
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-23W	TTR3	TA-23W tank	2500.00	12.50			0.005	1.06		0.007
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-24N	TTR3	TA-24N tank	262.50	1.31			0.005	0.91		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-24S	TTR3	TA-24s tank	287.50	1.44			0.005	1.00		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-25N	TTR3	TA-25N tank	262.50	1.31			0.005	0.91		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-25S	TTR3	TA-25s tank	250.00	1.25			0.005	0.83		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-26	TTR3	TA-26 tank	250.00	51.75			0.207	41.85		0.047
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-29	TTR3	TA-29 tank	67500.00	0.00			0	0.00		0.000
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-2B	TTR3	TA-2B tank	78.79	16.55			0.21	7.80		0.012
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-30	TTR3	TA-30 tank	337.50	23.63			0.07	24.14		0.024
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-31	TTR3	TA-31 tank	200.00	1.00			0.005	1.77		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-4	TTR3	TA-4 tank	10000.00	1700.00			0.17	57.41		0.879
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-5N	TTR3	TA-5N tank	475.00	77.90			0.164	33.37		0.056
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-5S	TTR3	TA-5s tank	175.00	12.08			0.069	11.47		0.012
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-6	TTR3	TA-6 tank	7000.00	1253.00			0.179	105.48		0.679
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-9N	TTR3	TA-9N hor.storage tank	1400.00	176.40			0.126	25.62		0.101
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-9S	TTR3	TA-9S tank	1400.00	176.40			0.126	25.62		0.101
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-106-A	TTR3	106 A conservation	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-106-B	TTR3	106 B conservation	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-HEADSN	TTR3	north heads tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-HEADSS	TTR3	south heads tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-M-6A	TTR3	m-6A acintene tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-M-6B	TTR3	m-6B acintene tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-LIM-M-215	TTR3	m215 underflow (A-8 decanter)	91.25	15.97			0.175	6.58		0.011

Arizona Chemical

Insignificant Units Emissions Calculations

Title V Operating Permit Renewal

Facility ID No. 0050001

Project: Panama City Title V Renewal

Verified	Process Line	Permit No.	Emission Point Number	Original Title V application ID Number	Emission Unit or Control Unit Number	Emission Unit	Process Rate Mgal/yr	Working Loss (lb)	Emission Factor HAP Working lb/Mgal	Emission Factor HAP Breathing lb/12 month	Emission Factor VOC Working or Loading lb/Mgal	Emission Factor VOC Breathing lb/12 month	Emissions HAP tons per year	Emissions VOC tons per year
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-65-A	TFAT	FA 100-65	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-65-B	TFAT	FA 100-65	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-66-A	TFAT	FA 100-66	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-66-B	TFAT	FA 100-66	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-81-A	TFAT	FA storage tank 100-81	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-81-B	TFAT	FA storage tank 100-81	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-92-A	TFAT	FA storage tank 100-92	9052.00	144.83			0.016	0.41		0.073
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-92-B	TFAT	FA storage tank 100-92	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-94-A	TFAT	FA storage tank 100-94	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-100-94-B	TFAT	FA storage tank 100-94	0.00	0.00			0.016	0.41		0.000
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-19	TFAT	DFA MD-19	14600.00	233.60			0.016	1.42		0.118
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-20	TFAT	D 401 R MD-20	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-39	TFAT	FA MD-39	0.00	0.00			0.157	14.33		0.007
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-41	TFAT	FA MD-41	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MD-42	TFAT	FA MD-42	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EFAT	TO-MO-40	TFAT	FA MD-40	0.00	0.00			0.016	1.24		0.001
X	Tall Oil Refinery	050001-015-AV	EPCH	CTO-100-001A	TPCH	pitch burn tank A, 100-001A	8212.50	114.98			0.014	0.44		0.058
X	Tall Oil Refinery	050001-015-AV	EPCH	CTO-100-001B	TPCH	pitch burn tank B, 100-001B	8212.50	114.98			0.014	0.44		0.058
X	Tall Oil Refinery	050001-015-AV	EPCH	TO-05	TPCH	pitch storage tank #5	0.00	0.00			0.014	0.47		0.000
X	Tall Oil Refinery	050001-015-AV	EPCH	TO-#1#2-PR-A	TPCH	pitch receiver, #1 and #2 plant	5475.00	76.65			0.014	2.59		0.040
X	Tall Oil Refinery	050001-015-AV	EPCH	TO-#1#2-PR-B	TPCH	pitch receiver, #1 and #2plant	5475.00	76.65			0.014	2.59		0.040
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-MD-13	TTOH	TO heads MD-13	0.00	0.00			0.157	4.79		0.002
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-MD-14	TTOH	TO heads MD-14	3775.25	592.71			0.157	4.79		0.299
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-MD-9	TTOH	TO heads MD-9	0.00	0.00			0.157	4.79		0.002
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-EL-201	TTOH	Light heads	5256.00	84.10			0.016	0.22		0.042
X	Tall Oil Refinery	050001-015-AV	ETOH	TO-VL-601	TTOH	Light heads	5.48	0.19			0.035	0.41		0.000
X	Terpene Refinery	050001-015-AV	ETR4	TR-DRM	DTR4	drums in filling process	357.14	85.71			0.24			0.043
X	Terpene Refinery	050001-015-AV	ETR3	TR-PIN-ALPHA-SEP	TTR3	alpha still separator underflow	821.25	143.72			0.175	6.58		0.075
X	Terpene Refinery	050001-015-AV	ETR3	TR-#1-STG	TTR3	No. 1 storage tank	5500.00	1155.00			0.21	560.06		0.858
X	Terpene Refinery	050001-015-AV	ETR3	TR-#2-STG	TTR3	No. 2 storage tank	7500.00	1290.00			0.172	460.62		0.875
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-101	TTR3	m-101 tank	2162.50	144.89			0.067	75.67		0.110
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-102	TTR3	m-102 tank	487.50	2.93			0.006	3.88		0.003
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-103	TTR3	m-103 tank	1937.50	133.69			0.069	42.21		0.088
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-103	TTR3	m-103 water drainage basin	2500.00	525.00			0.21	0.79		0.263
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-104	TTR3	m-104 tank	875.00	60.38			0.069	77.12		0.069
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-105	TTR3	m-105 tank	1250.00	6.25			0.005	1.62		0.004
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-203	TTR3	m-203 tank	2812.50	337.50			0.12	133.05		0.235
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-204	TTR3	m-204 tank	1287.50	123.60			0.096	106.78		0.115
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-205	TTR3	m-205 tank	2287.50	160.13			0.07	39.08		0.100
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-206	TTR3	m-206 tank	2287.50	13.73			0.006	3.46		0.009
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-207	TTR3	m-207 tank	1875.00	54.38			0.029	57.96		0.056
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-213	TTR3	m-213 tank	1250.00	7.50			0.006	0.60		0.004

Arizona Chemical

Title V Operating Permit Renewal

Facility ID No. 0050001

Insignificant Units Emissions Calculations

Project: Panama City Title V Renewal

Verified	Process Line	Permit No.	Emission Point Number	Original Title V application ID Number	Emission Unit or Control Unit Number	Emission Unit	Process Rate Mgal/yr	Working Loss (lb)	Emission Factor HAP Working lb/Mgal	Emission Factor HAP Breathing lb/12 month	Emission Factor VOC Working or Loading lb/Mgal	Emission Factor VOC Breathing lb/12 month	Emissions HAP tons per year	Emissions VOC tons per year
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-216	TTR3	m-216 tank	875.00	5.25			0.006	10.83		0.008
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-217	TTR3	m-217 tank	1250.00	93.75			0.075	109.17		0.101
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-232	TTR3	m-232 tank	475.00	32.78			0.069	22.32		0.028
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-233	TTR3	m-233 tank	600.00	3.00			0.005	1.68		0.002
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-250	TTR3	m-250 tank	3125.00	218.75			0.07	78.20		0.148
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-251	TTR3	m-251 tank	2287.50	160.13			0.07	39.08		0.100
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-252	TTR3	m-252 tank	625.00	43.13			0.069	38.54		0.041
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-381	TTR3	m-381 tank	43750.00	9056.25			0.207	55.28		4.556
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-382	TTR3	m-382 tank	1250.00	7.50			0.006	1.68		0.005
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-383	TTR3	m-383 tank	2812.50	337.50			0.12	66.63		0.202
X	Terpene Refinery	050001-015-AV	ETR3	TR-M-384	TTR3	m-384 tank	625.00	43.13			0.069	38.54		0.041
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-10	TTR3	TA-10 tank	500.00	2.50			0.005	1.77		0.002
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-105-AN	TTR3	TA-105AN tank	250.00	1.25			0.005	1.62		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-105-AS	TTR3	105 A s tank	250.00	1.25			0.005	1.62		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-2	TTR3	TA-2 horizontal storage tank	428.79	90.05			0.21	560.06		0.325
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-22N	TTR3	TA-22N tank	50000.00	4600.00			0.092	18.86		2.309
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-22S	TTR3	TA-22s tank	437.50	90.56			0.207	39.34		0.065
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-23E	TTR3	TA-23E tank	2500.00	12.50			0.005	1.06		0.007
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-23W	TTR3	TA-23W tank	2500.00	12.50			0.005	1.06		0.007
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-24N	TTR3	TA-24N tank	262.50	1.31			0.005	0.91		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-24S	TTR3	TA-24s tank	287.50	1.44			0.005	1.00		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-25N	TTR3	TA-25N tank	262.50	1.31			0.005	0.91		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-25S	TTR3	TA-25s tank	250.00	1.25			0.005	0.83		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-26	TTR3	TA-26 tank	250.00	51.75			0.207	41.85		0.047
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-29	TTR3	TA-29 tank	67500.00	0.00			0	0.00		0.000
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-2B	TTR3	TA-2B tank	78.79	16.55			0.21	7.80		0.012
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-30	TTR3	TA-30 tank	337.50	23.63			0.07	24.14		0.024
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-31	TTR3	TA-31 tank	200.00	1.00			0.005	1.77		0.001
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-4	TTR3	TA-4 tank	10000.00	1700.00			0.17	57.41		0.879
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-5N	TTR3	TA-5N tank	475.00	77.90			0.164	33.37		0.056
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-5S	TTR3	TA-5s tank	175.00	12.08			0.069	11.47		0.012
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-6	TTR3	TA-6 tank	7000.00	1253.00			0.179	105.48		0.679
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-9N	TTR3	TA-9N hor.storage tank	1400.00	176.40			0.126	25.62		0.101
X	Terpene Refinery	050001-015-AV	ETR3	TR-TA-9S	TTR3	TA-9S tank	1400.00	176.40			0.126	25.62		0.101
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-106-A	TTR3	106 A conservation	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-106-B	TTR3	106 B conservation	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-HEADSN	TTR3	north heads tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-HEADSS	TTR3	south heads tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-M-6A	TTR3	m-6A acintene tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-ANT-M-6B	TTR3	m-6B acintene tank	459.90	132.91			0.289	10.12		0.072
X	Terpene Refinery	050001-015-AV	ETR3	TR-LIM-M-215	TTR3	m215 underflow (A-8 decanter)	91.25	15.97			0.175	6.58		0.011

Arizona Chemical

Insignificant Units Emissions Calculations

Title V Operating Permit Renewal

Facility ID No. 0050001

Project: Panama City Title V Renewal

Verified	Process Line	Permit No.	Emission Point Number	Original Title V application ID Number	Emission Unit or Control Unit Number	Emission Unit	Process Rate Mgal/yr	Working Loss (lb)	Emission Factor HAP Working lb/Mgal	Emission Factor HAP Breathing lb/12 month	Emission Factor VOC Working or Loading lb/Mgal	Emission Factor VOC Breathing lb/12 month	Emissions HAP tons per year	Emissions VOC tons per year
X	Utilities - Miscellaneous	050001-015-AV	STCL	STEAM-TC-01	STCL	tank car steaming station	13000.00	5.82			0.000447503			0.003
X	Utilities - Miscellaneous	050001-015-AV	STCL	STEAM-TC-02	STCL	tank car steaming station	5172.57	0.04			6.84336E-06			0.000
X	Utilities - Miscellaneous	050001-015-AV	EMAN	MAIN-DIESEL	TMAN	diesel oil tank	0.07	0.20			2.86	25.22		0.013
X	Utilities - Miscellaneous	050001-015-AV	EMAN	MAIN-GAS	TMAN	gasoline tank	1.67	14.90			8.92	673.1		0.344
X	Utilities - Miscellaneous	050001-015-AV	EMAN	MAIN-USED-OIL	TMAN	used oil tank	0.71	0.00				1.9		0.001
X	Utilities - Miscellaneous	050001-015-AV	EWT2	WW-21TK1A	WWT2		1212.50	19.40			0.016	1.80		0.011
X	Utilities - Miscellaneous	050001-015-AV	EWT2	WW-21TK1B	WWT2		1212.50	19.40			0.016	1.80		0.011
X	Utilities - Miscellaneous	050001-015-AV	EWT2	WW-21TK2A	WWT2		235.96	0.00	0.489	26.06			0.07073	0.071
X	Utilities - Miscellaneous	050001-015-AV	EWT2	WW-21TK2B	WWT2		235.96	0.00	0.489	26.06			0.07073	0.071
X	Utilities - Miscellaneous	050001-015-AV	EWT2	WW-PF	WWT2		0.06							0.060
X	Utilities - Miscellaneous	050001-015-AV	EWT2	WW-TERPW	WWT2		3.13							3.130
X	Rosin Upgrade Plant	050001-015-AV	EAQU	AQ-QRE	KAQU	aqua tac reactor, QRE CURRENT	0.11	0.00						0.112
X	Rosin Upgrade Plant	050001-015-AV	EAQU	AQ-QRE	KAQU	aqua tac reactor, QRE 2005 MODIFICATION	8.51	0.00						8.507
						New Totals							0.18	51.63

Arizona Chemical

Insignificant Units Emissions Calculations

Title V Operating Permit Renewal

Facility ID No. 0050001

Project: Panama City Title V Renewal

Verified	Process Line	Permit No.	Emission Point Number	Original Title V application ID Number	Emission Unit or Control Unit Number	Emission Unit	Process Rate Mgal/yr	Working Loss (lb)	Emission Factor HAP Working lb/Mgal	Emission Factor HAP Breathing lb/12 month	Emission Factor VOC Working or Loading lb/Mgal	Emission Factor VOC Breathing lb/12 month	Emissions HAP tons per year	Emissions VOC tons per year
X	Utilities - Miscellaneous	050001-015-AV	STCL	STEAM-TC-01	STCL	tank car steaming station	13000.00	5.82			0.000447503			0.003
X	Utilities - Miscellaneous	050001-015-AV	STCL	STEAM-TC-02	STCL	tank car steaming station	5172.57	0.04			6.84336E-06			0.000
X	Utilities - Miscellaneous	050001-015-AV	EMAN	MAIN-DIESEL	TMAN	diesel oil tank	0.07	0.20			2.86	25.22		0.013
X	Utilities - Miscellaneous	050001-015-AV	EMAN	MAIN-GAS	TMAN	gasoline tank	1.67	14.90			8.92	673.1		0.344
X	Utilities - Miscellaneous	050001-015-AV	EMAN	MAIN-USED-OIL	TMAN	used oil tank	0.71	0.00				1.9		0.001
X	Utilities - Miscellaneous	050001-015-AV	EWT2	WW-21TK1A	WWT2		1212.50	19.40			0.016	1.80		0.011
X	Utilities - Miscellaneous	050001-015-AV	EWT2	WW-21TK1B	WWT2		1212.50	19.40			0.016	1.80		0.011
X	Utilities - Miscellaneous	050001-015-AV	EWT2	WW-21TK2A	WWT2		235.96	0.00	0.489	26.06			0.07073	0.071
X	Utilities - Miscellaneous	050001-015-AV	EWT2	WW-21TK2B	WWT2		235.96	0.00	0.489	26.06			0.07073	0.071
X	Utilities - Miscellaneous	050001-015-AV	EWT2	WW-PF	WWT2		0.06							0.060
X	Utilities - Miscellaneous	050001-015-AV	EWT2	WW-TERPW	WWT2		3.13							3.130
X	Rosin Upgrade Plant	050001-015-AV	EAQU	AQ-QRE	KAQU	aqua tac reactor, QRE CURRENT	0.11	0.00						0.112
X	Rosin Upgrade Plant	050001-015-AV	EAQU	AQ-QRE	KAQU	aqua tac reactor, QRE 2005 MODIFICATION	8.51	0.00						8.507
						New Totals							0.18	51.63