

NMED AIR QUALITY BUREAU INITIAL TITLE V OPERATING PERMIT (UPDATE)

XTO Energy Inc.
Cowboy Central Delivery Point (CDP)



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Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/Reconstruction ²	Emissions vented to Stack #				
SHTR1	Stabilization Hot Oil Heater (58.93 MMBtu/hr)	THM	SHO5000	PK-6010 H-6012	58.93 MMBtu/hr	58.93 MMBtu/hr	2018	N/A	31000403	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	SHTR1				
SHTR2	Stabilization Hot Oil Heater (58.93 MMBtu/hr)	THM	SHO5000	PK-6020 H-6022	58.93 MMBtu/hr	58.93 MMBtu/hr	2018	N/A	31000403	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	SHTR2				
SHTR3	Stabilization Hot Oil Heater (58.93 MMBtu/hr)	THM	SHO5000	PK-6030 H-6032	58.93 MMBtu/hr	58.93 MMBtu/hr	2018	N/A	31000403	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	SHTR3				
SHTR4	Stabilization Hot Oil Heater (58.93 MMBtu/hr)	THM	SHO5000	PK-6040 H-6042	58.93 MMBtu/hr	58.93 MMBtu/hr	2019	N/A	31000403	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2022	SHTR4				
SHTR5	Stabilization Hot Oil Heater (58.93 MMBtu/hr)	THM	SHO5000	PK-6060 H-6062	58.93 MMBtu/hr	58.93 MMBtu/hr	2019	N/A	31000403	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2023	SHTR5				
SHTR6	Stabilization Hot Oil Heater (58.93 MMBtu/hr)	THM	SHO5000	TBD	58.93 MMBtu/hr	58.93 MMBtu/hr	TBD	N/A	31000403	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	SHTR6				
SHTR7	Stabilization Hot Oil Heater w/ SCR catalyst (58.93 MMBtu/hr)	THM	SHO5000	TBD	58.93 MMBtu/hr	58.93 MMBtu/hr	TBD	SHTR7-CAT	31000403	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	SHTR7				
SHTR8	Stabilization Hot Oil Heater w/ SCR catalyst (58.93 MMBtu/hr)	THM	SHO5000	TBD	58.93 MMBtu/hr	58.93 MMBtu/hr	TBD	SHTR8-CAT	31000403	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	SHTR8				
CHTR1	Cryo Hot Oil Heater (94.54 MMBtu/hr)	THM	SHO5000	PK-6110 H-6112	94.54 MMBtu/hr	94.54 MMBtu/hr	2019	N/A	31000403	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2021	CHTR1				
CHTR2	Cryo Hot Oil Heater (94.54 MMBtu/hr)	THM	SHO5000	PK-6120 H-6122	94.54 MMBtu/hr	94.54 MMBtu/hr	2019	NA	31000403	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2023	CHTR2				
CHTR3	Cryo Hot Oil Heater w/ SCR Catalyst (94.54 MMBtu/hr)	THM	SHO5000	TBD	94.54 MMBtu/hr	94.54 MMBtu/hr	TBD	CHTR3-CAT	31000403	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	CHTR3				
CHTR4	Cryo Hot Oil Heater w/ SCR Catalyst (94.54 MMBtu/hr)	THM	SHO5000	TBD	94.54 MMBtu/hr	94.54 MMBtu/hr	TBD	CHTR4-CAT	31000403	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	CHTR4				
RHTR1	Regen Heater (35.25 MMBtu/hr)	THM	SHO2500	H-3132	35.25 MMBtu/hr	35.25 MMBtu/hr	2018	N/A	31000405	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2021	RHTR1				

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Unit Number ¹	Source Description	Make	Model #	Serial #	Manufact- urer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classi- fication Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/ Reconstruction ²	Emissions vented to Stack #				
RHTR2	Regen Heater (35.25 MMBtu/hr)	THM	SHO2500	H-3232	35.25 MMBtu/hr	35.25 MMBtu/hr	2019	N/A	31000405	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2023	RHTR2				
RHTR3	Regen Heater (35.25 MMBtu/hr)	THM	SHO2500	H-3332	35.25 MMBtu/hr	35.25 MMBtu/hr	2019	N/A	31000405	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	RHTR3				
RHTR4	Regen Heater (35.25 MMBtu/hr)	THM	SHO2500	TBD	35.25 MMBtu/hr	35.25 MMBtu/hr	TBD	N/A	31000405	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	RHTR4				
FL1	CDP Flare 1 (Dual Tip Flare)	Zeeco, Inc.	N/A	FS 9020 S.O # 35284	20 MMscfd	20 MMscfd	2019	N/A	31000160	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	FL1				
FL2	Cryo Flare 2 (Dual Tip Flare)	Zeeco, Inc.	N/A	FS 6960 S.O # 38126	20 MMscfd	20 MMscfd	2019	N/A	31000160	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	FL2				
FL3	Cryo Flare 3 (Dual Tip Flare)	Zeeco, Inc.	N/A	FS-6962	20 MMscfd	20 MMscfd	TBD	N/A	31000160	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2024	FL3				
FL1-FL3OVHD-SSM	FL1-FL3 Stabilizer Overhead SSM Gas	Zeeco, Inc.	N/A	N/A	250 MMscfd	250 MMscfd	N/A	FL1-FL3	31000160	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							N/A	FL1-FL3OVHD-				
FL1-FL3CRYO-SSM	FL1-FL3 Cryo Blowdown SSM Gas	Zeeco, Inc.	N/A	N/A	250 MMscfd	250 MMscfd	N/A	FL1-FL3	31000160	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							N/A	FL1-FL3CRYO-				
IFR1	Oil Storage Tank 1 (50,000 bbl)	Advance Tank	N/A	TK-4201	50,000 bbl	50,000 bbl	2019	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	IFR1				
IFR2	Oil Storage Tank 2 (50,000 bbl)	Advance Tank	N/A	TK-4202	50,000 bbl	50,000 bbl	2019	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	IFR2				
IFR3	Oil Storage Tank 3 (50,000 bbl)	Advance Tank	N/A	TK-4203	50,000 bbl	50,000 bbl	2019	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	IFR3				
IFR4	Oil Storage Tank 4 (50,000 bbl)	Advance Tank	N/A	TK-4204	50,000 bbl	50,000 bbl	2019	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	IFR4				
IFR5	Oil Storage Tank 5 (100,000 bbl)	TBD	N/A	TK-4211	100,000 bbl	100,000 bbl	3/31/2023	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							12/10/2023	IFR5				
IFR6	Oil Storage Tank 6 (100,000 bbl)	TBD	N/A	TK-4212	100,000 bbl	100,000 bbl	3/31/2023	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							10/27/2023	IFR6				

Table 2-A: Regulated Emission Sources

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Unit Number ¹	Source Description	Make	Model #	Serial #	Manufact- urer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classi- fication Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/ Reconstruction ²	Emissions vented to Stack #				
IFR7	Oil Storage Tank 7 (100,000 bbl)	TBD	N/A	TK-4213	100,000 bbl	100,000 bbl	3/31/2023	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							1/21/2024	IFR7				
IFR8	Oil Storage Tank 8 (100,000 bbl)	TBD	N/A	TK-4214	100,000 bbl	100,000 bbl	3/31/2023	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							11/8/2023	IFR8				
IFR9	Oil Storage Tank 9 (100,000 bbl)	TBD	N/A	TK-4215	100,000 bbl	100,000 bbl	TBD	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	IFR9				
IFR10	Oil Storage Tank 10 (100,000 bbl)	TBD	N/A	TK-4216	100,000 bbl	100,000 bbl	3/12/2024	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							6/24/2024	IFR10				
IFR11	Oil Storage Tank 11 (100,000 bbl)	TBD	N/A	TK-4217	100,000 bbl	100,000 bbl	3/12/2024	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							5/30/2024	IFR11				
IFR12	Oil Storage Tank 12 (100,000 bbl)	TBD	N/A	TK-4218	100,000 bbl	100,000 bbl	TBD	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	IFR12				
IFR13	Oil Storage Tank 13 (100,000 bbl)	TBD	N/A	TK-4219	100,000 bbl	100,000 bbl	3/12/2024	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							7/22/2024	IFR13				
IFR14	Oil Storage Tank 14 (100,000 bbl)	TBD	N/A	TK-4220	100,000 bbl	100,000 bbl	3/12/2024	N/A	40400331	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							6/7/2024	IFR14				
ECD1	Combustor 1	Zeeco, Inc.	N/A	FS-6820 SO # 35567	N/A	N/A	2019	N/A	31000209	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	ECD1				
ECD2 ⁵	Combustor 2	Varies	Varies	Varies	N/A	N/A	Varies	N/A	31000209	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							Varies	ECD2 ⁵				
TO1	Thermal Oxidizer	Zeeco, Inc.	N/A	TO-6980 SO # 35595	25 MMbtu/hr	25 MMbtu/hr	2018	N/A	31000209	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2019	TO1				
TO2	Thermal Oxidizer	Zeeco, Inc.	N/A	TBD	25 MMbtu/hr	25 MMbtu/hr	TBD	N/A	31000209	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	TO2				
TO3	Thermal Oxidizer	Zeeco, Inc.	N/A	TBD	25 MMbtu/hr	25 MMbtu/hr	TBD	N/A	31000209	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	TO3				
TO4	Thermal Oxidizer	Zeeco, Inc.	N/A	TBD	25 MMbtu/hr	25 MMbtu/hr	TBD	N/A	31000209	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	TO4				

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							Date of Construction/Reconstruction ²	Emissions vented to Stack #				
FUG	Fugitives	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31088811	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							N/A	FUG				
SSM/M	SSM Emissions	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31088811	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							N/A	SSM/M				
AU1	Amine Sweetener 1	Sexton Industrial	N/A	V-6978 V-6979	250 MMSCFD	250 MMSCFD	2019	TO1	31000305	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	TO1				
AU2	Amine Sweetener 2	TBD	N/A	TBD	250 MMSCFD	250 MMSCFD	TBD	TO2	31000305	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	TO2				
AU3	Amine Sweetener 3	TBD	N/A	TBD	250 MMSCFD	250 MMSCFD	TBD	TO3	31000305	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	TO3				
AU4	Amine Sweetener 4	TBD	N/A	TBD	250 MMSCFD	250 MMSCFD	TBD	TO4	31000305	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	TO4				
GBS1	Gunbarrel Tank	Angelina Tank	N/A	TK-7001	1,000 bbl	1,000 bbl	2019	ECD1 / ECD2	31000506	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	ECD1 / ECD2				
PWTK1	Produced Water Tank 1	HMI	N/A	TK-7005	750 bbl	750 bbl	2019	ECD1 / ECD2	40400315	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	ECD1 / ECD2				
PWTK2	Produced Water Tank 2	HMI	N/A	TK-7006	750 bbl	750 bbl	2019	ECD1 / ECD2	40400315	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	ECD1 / ECD2				
SOTK1	Slop Oil Tank	HMI11	N/A	TK-6895	500 bbl	500 bbl	2019	ECD1 / ECD2	40400311	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							2020	ECD1 / ECD2				
SOTL	Slop Oil Truck Loading	TBD	N/A	N/A	210 bbl/day	210 bbl/day	N/A	ECD1 / ECD2	40400250	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☒ To Be Modified ☐ To be Replaced	N/A	N/A
							N/A	SOTL				
GEN1	Emergency Generator	Caterpillar	G3520H	G-7400 GFR01251	3448 HP	3448 HP	12/1/2019	N/A	20200254	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SLB	N/A
							2020	GEN1				
GEN2	Emergency Generator	Caterpillar	G3520H	G-7410 GFR01272	3448 HP	3448 HP	9/1/2020	N/A	20200254	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SLB	N/A
							2023	GEN2				

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							Date of Construction/Reconstruction ²	Emissions vented to Stack #				
GEN3	Emergency Generator	Caterpillar	G3520H	TBD	3448 HP	3448 HP	TBD	N/A	20200254	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SLB	N/A
							TBD	GEN3				
GEN4	Emergency Generator	Caterpillar	G3520H	TBD	3448 HP	3448 HP	TBD	N/A	20200254	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	4SLB	N/A
							TBD	GEN4				
FWPE1	Diesel Fire Pump	Clarke	C18H0-UFAD20	TBD	525 HP	525 HP	TBD	N/A	20200102	☐ Existing (unchanged) ☐ To be Removed ☒ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	CI	N/A
							TBD	FWPE1				
FWPE2	Diesel Fire Pump	Clarke	C18H0-UFAD20	TBD	525 HP	525 HP	TBD	N/A	20200102	☐ Existing (unchanged) ☐ To be Removed ☒ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	CI	N/A
							TBD	FWPE2				
EOOSCOMP1	Electric Oil Overhead Stabilizer Compressors	Ariel	JGT-2	K-1600 F-59023	450 HP	450 HP	2/1/2019	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							6/1/2020	N/A				
EOOSCOMP2	Electric Oil Overhead Stabilizer Compressors	Ariel	JGT-2	K-1610 F-59144	450 HP	450 HP	2/1/2019	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							6/1/2020	N/A				
EOOSCOMP3	Electric Oil Overhead Stabilizer Compressors	Ariel	JGT-2	K-1620 F-59213	450 HP	450 HP	2/1/2019	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							6/1/2020	N/A				
EOOSCOMP4	Electric Oil Overhead Stabilizer Compressors	Ariel	JGT-2	TBD	450 HP	450 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	N/A				
EOOSCOMP5	Electric Oil Overhead Stabilizer Compressors	Ariel	JGT-2	TBD	450 HP	450 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	N/A				
EOOSCOMP6	Electric Oil Overhead Stabilizer Compressors	Ariel	JGT-2	TBD	450 HP	450 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	N/A				
EOOSCOMP7	Electric Oil Overhead Stabilizer Compressors	Ariel	JGT-2	TBD	450 HP	450 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	N/A				
ECOSCOMP1	Electric Condensate Overhead Stabilizer Compressors	Ariel	JGH-2	K-2600 F-59006	750 HP	750 HP	2/1/2019	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							6/1/2020	N/A				
ECOSCOMP2	Electric Condensate Overhead Stabilizer Compressors	Ariel	JGH-2	K-2610 F-59007	750 HP	750 HP	2/1/2019	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							6/1/2020	N/A				
ECOSCOMP3	Electric Condensate Overhead Stabilizer Compressors	Ariel	JGH-2	K-2620 F-59142	750 HP	750 HP	2/1/2019	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							6/1/2020	N/A				
ECOSCOMP4	Electric Condensate Overhead Stabilizer Compressors	Ariel	JGH-2	K-2700 F-61085	750 HP	750 HP	8/1/2019	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							9/1/2021	N/A				
ECOSCOMP5	Electric Condensate Overhead Stabilizer Compressors	Ariel	JGH-2	TBD	750 HP	750 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	N/A				

Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/Reconstruction ²	Emissions vented to Stack #				
ECOSCOMP6	Electric Condensate Overhead Stabilizer Compressors	Ariel	JGH-2	TBD	750 HP	750 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	N/A				
ECOSCOMP7	Electric Condensate Overhead Stabilizer Compressors	Ariel	JGH-2	TBD	750 HP	750 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	N/A				
ERESCOMP1	Electric Residue Gas Compressor	Ariel	KBZ/6	K-3600 F-60185	6500 HP	6500 HP	5/1/2019	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							1/1/2021	N/A				
ERESCOMP2	Electric Residue Gas Compressor	Ariel	KBZ/6	K-3610 F-60281	6500 HP	6500 HP	5/1/2019	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							1/1/2021	N/A				
ERESCOMP3	Electric Residue Gas Compressor	Ariel	KBZ/6	K-3620 F-60484	6500 HP	6500 HP	6/1/2019	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							1/1/2021	N/A				
ERESCOMP4	Electric Residue Gas Compressor	Ariel	KBZ/6	K-3630 F-60505	6500 HP	6500 HP	6/1/2019	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							1/1/2021	N/A				
ERESCOMP5	Electric Residue Gas Compressor	Ariel	KBZ/6	K-3640 F-62887	6500 HP	6500 HP	6/1/2020	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							5/1/2022	N/A				
ERESCOMP6	Electric Residue Gas Compressor	Ariel	KBZ/6	K-3650 F-62902	6500 HP	6500 HP	6/1/2020	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							5/1/2022	N/A				
ERESCOMP7	Electric Residue Gas Compressor	Ariel	KBZ/6	K-3660 F-62931	6500 HP	6500 HP	7/1/2020	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							5/1/2022	N/A				
ERESCOMP8	Electric Residue Gas Compressor	Ariel	KBZ/6	TBD	6500 HP	6500 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	N/A				
ERESCOMP9	Electric Residue Gas Compressor	Ariel	KBZ/6	TBD	6500 HP	6500 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	N/A				
ERESCOMP10	Electric Residue Gas Compressor	Ariel	KBZ/6	TBD	6500 HP	6500 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	N/A				
ERESCOMP11	Electric Residue Gas Compressor	Dresser Rand	D8R8B	K-3700 SN169376-A1	15865 HP	15865 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							1/1/2023	N/A				
ERESCOMP12	Electric Residue Gas Compressor	Dresser Rand	D8R8B	K-3710 SN169376-B1	15865 HP	15865 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							1/1/2023	N/A				

Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufact- urer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classi- fication Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/ Reconstruction ²	Emissions vented to Stack #				
ERESCOMP13	Electric Residue Gas Compressor	Dresser Rand	D8R8B	K-3720 SN169376-C1	15865 HP	15865 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	N/A				
ERESCOMP14	Electric Residue Gas Compressor	Dresser Rand	D8R8B	TBD	15865 HP	15865 HP	TBD	N/A	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							TBD	N/A				
ERESCOMP15	Electric Residue Gas Compressor	Ariel	KBZ/6	TBD	6500 HP	6500 HP	N/A	N/A	N/A	☐ Existing (unchanged) ☒ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							N/A	N/A				
ERESCOMP16	Electric Residue Gas Compressor	Ariel	KBZ/6	TBD	6500 HP	6500 HP	N/A	N/A	N/A	☐ Existing (unchanged) ☒ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							N/A	N/A				
ERESCOMP17	Electric Residue Gas Compressor	Ariel	KBZ/6	TBD	6500 HP	6500 HP	N/A	N/A	N/A	☐ Existing (unchanged) ☒ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							N/A	N/A				
ERESCOMP18	Electric Residue Gas Compressor	Ariel	KBZ/6	TBD	6500 HP	6500 HP	N/A	N/A	N/A	☐ Existing (unchanged) ☒ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							N/A	N/A				
CRYO1-4	4 Cryogenic Trains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐ Existing (unchanged) ☒ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							N/A	N/A				
MOL1-4	4 Molecular Sieve Dehydrators	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	☐ Existing (unchanged) ☒ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
							N/A	N/A				

¹ Unit numbers must correspond to unit numbers in the previous NOI unless a complete cross reference table of all units in both NOIs is provided.

² Specify dates required to determine regulatory applicability.

³ To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

⁴ "4SLB" means four stroke lean burn engine, "4SRB" means four stroke rich burn engine, "2SLB" means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignition

⁵ECD2 represents a portable backup combustor that will be used when ECD1 is not in service. XTO seeks authorization to use any portable combustor that is designed to meet the emission limits specified in this permit application.

Table 2-B: Insignificant Activities¹ (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 20.2.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at <http://www.env.nm.gov/aqb/forms/InsignificantListTitleV.pdf>. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction ²	For Each Piece of Equipment, Check One
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction ²	
FFT	1000 bbl Firefighting Foam Tank	TBD	N/A	N/A	20.2.72.202.B.5	TBD	☒ Existing (unchanged) ☐ To Be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	TBD	
48A	1000 bbl Raw Water Tank	TBD	N/A	N/A	20.2.72.202.B.5	TBD	☒ Existing (unchanged) ☐ To Be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	TBD	
48B	1000 bbl Raw Water Tank	TBD	N/A	N/A	20.2.72.202.B.5	TBD	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	TBD	
49	1000 bbl Demineralized Water Tank	TBD	N/A	N/A	20.2.72.202.B.5	TBD	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	TBD	
50	Amine Makeup Tank	TBD	N/A	N/A	20.2.72.202.B.5	TBD	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	TBD	
51A	100 bbl Lube Oil Make-Up Tank	TBD	N/A	N/A	20.2.72.202.B.5	TBD	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	TBD	
51B	100 bbl Lube Oil Make-Up Tank	TBD	N/A	N/A	20.2.72.202.B.5	TBD	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	TBD	
55	Utility Water Tank	TBD	N/A	N/A	20.2.72.202.B.5	TBD	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	TBD	
ROAD	Haul Road Fugitives	N/A	N/A	N/A	20.2.72.202.B.5	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
VTank01	Varsol Tank	TBD	N/A	N/A	20.2.72.202.B.5	TBD	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	TBD	
SSMEBD1	Condensate Stabilization - Reflux Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD2	Condensate Stabilization - Surge and Flash Drum Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD3	Condensate Stabilization - Overhead Compressor Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD4	Gas Processing - Surge Drum Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	

Table 2-B: Insignificant Activities¹ (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 20.2.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at <http://www.env.nm.gov/aqb/forms/InsignificantListTitleV.pdf>. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction ²	For Each Piece of Equipment, Check One
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction ²	
SSMEBD5	Gas Processing - Separator Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD6	Gas Processing - Expander/Compressor Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD7	Gas Processing - Dehydrator Regeneration Gas Compressor Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD8	Gas Processing - Subcooler Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD9	Gas Processing - Chiller/Exchanger Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD10	Gas Processing - Dehydrator Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD11	Gas Processing - Mercury Guard Bed	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD12	Gas Processing - Tower Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD13	Gas Processing - Condenser Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD14	Gas Processing - Economizer Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD15	Utilities & Common Equipment - Closed Drain Drum Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD16	Utilities & Common Equipment - Combustor KO Drum Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD17	Utilities & Common Equipment - Cryo LP/HP Flare KO Drum Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	

Table 2-B: Insignificant Activities¹ (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 20.2.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at <http://www.env.nm.gov/aqb/forms/InsignificantListTitleV.pdf>. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction ²	For Each Piece of Equipment, Check One
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction ²	
SSMEBD18	Utilities & Common Equipment - Combustor Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD19	Sitewide - Reboiler Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD20	Sitewide - Gas Filter Coalescer Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	
SSMEBD21	Sitewide - Pig Launching and Receiving Blowdowns	N/A	N/A	N/A	20.2.72.202.B.5 NMAC	N/A	☒ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	N/A	I.A. List Item #1.a	N/A	

¹ Insignificant activities exempted due to size or production rate are defined in 20.2.70.300.D.6, 20.2.70.7.Q NMAC, and the NMED/AQB List of Insignificant Activities, dated September 15, 2008. Emissions from these insignificant activities do not need to be reported, unless specifically requested.

² Specify date(s) required to determine regulatory applicability.

Table 2-C: Emissions Control Equipment

Unit and stack numbering must correspond throughout the application package. Only list control equipment for TAPs if the TAP’s maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B. In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions.

Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s) ¹	Efficiency (% Control by Weight)	Method used to Estimate Efficiency
FL1	Flare 1	2020	VOC, HAP	Plant Inlet & SSM Activities	98%	Mnf. Guarantee
FL2	Flare 2	2020	VOC, HAP	Plant Inlet & SSM Activities	98%	Mnf. Guarantee
FL3	Flare 3	2024	VOC, HAP	Plant Inlet & SSM Activities	98%	Mnf. Guarantee
ECD1	Combustor 1	2020	VOC, HAP	GBS1, PWTK1-PWTK2, SOTK1,SOTL	99%	Mnf. Guarantee
ECD2	Combustor 2	Varies	VOC, HAP	GBS1, PWTK1-PWTK2, SOTK1,SOTL	99%	Mnf. Guarantee
TO1	Thermal Oxidizer	2019	VOC, HAP	AU1	99%	Mnf. Guarantee
TO2	Thermal Oxidizer	TBD	VOC, HAP	AU2	99%	Mnf. Guarantee
TO3	Thermal Oxidizer	TBD	VOC, HAP	AU3	99%	Mnf. Guarantee
TO4	Thermal Oxidizer	TBD	VOC, HAP	AU4	99%	Mnf. Guarantee
SHTR7-CAT	SCR Catalytic Reduction	TBD	NOx	SHTR7-CAT	NO _x - 75%	Mnf. Guarantee
SHTR8-CAT	SCR Catalytic Reduction	TBD	NOx	SHTR8-CAT	NO _x - 75%	Mnf. Guarantee
CHTR3-CAT	SCR Catalytic Reduction	TBD	NOx	CHTR3-CAT	NO _x - 80%	Mnf. Guarantee
CHTR4-CAT	SCR Catalytic Reduction	TBD	NOx	CHTR4-CAT	NO _x - 80%	Mnf. Guarantee

¹ List each control device on a separate line. For each control device, list all emission units controlled by the control device.

Table 2-D: Maximum Emissions (under normal operating conditions)

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "--" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NO _x		CO		VOC		SO _x		PM ¹		PM10 ²		PM2.5 ²		H ₂ S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
SHTR1	1.97	41.35	1.20	25.24	0.47	9.91	0.16	3.42	0.55	11.54	0.55	11.54	0.55	11.54	-	-	-	-
SHTR2	1.97		1.20		0.47		0.16		0.55		0.55		0.55		-		-	
SHTR3	1.97		1.20		0.47		0.16		0.55		0.55		0.55		-		-	
SHTR4	1.97		1.20		0.47		0.16		0.55		0.55		0.55		-		-	
SHTR5	1.97		1.20		0.47		0.16		0.55		0.55		0.55		-		-	
SHTR6	1.97		1.20		0.47		0.16		0.55		0.55		0.55		-		-	
SHTR7	1.97	13.78	1.20	3.30	0.47	3.30	0.16	1.14	0.55	3.85	0.55	3.85	0.55	3.85	-	-	-	-
SHTR8	1.97		1.20		0.47		0.16		0.55		0.55		0.55		-		-	
CHTR1	3.95	27.66	1.93	8.41	0.76	3.30	0.26	1.14	0.88	3.85	0.88	3.85	0.88	3.85	-	-	-	-
CHTR2	3.95		1.93		0.76		0.26		0.88		0.88		0.88		-		-	
CHTR3	3.95	27.66	1.93	13.50	0.76	5.30	0.26	1.83	0.88	6.17	0.88	6.17	0.88	6.17	-	-	-	-
CHTR4	3.95		1.93		0.76		0.26		0.88		0.88		0.88		-		-	
RHTR1	1.18	16.49	0.72	10.07	0.28	3.95	0.097	1.36	0.33	4.60	0.33	4.60	0.33	4.60	-	-	-	-
RHTR2	1.18		0.72		0.28		0.097		0.33		0.33		0.33		-		-	
RHTR3	1.18		0.72		0.28		0.097		0.33		0.33		0.33		-		-	
RHTR4	1.18		0.72		0.28		0.097		0.33		0.33		0.33		-		-	
FL1-FL3 ²	2.95	12.90	5.88	25.75	2.30	10.06	0.050	0.22	0.16	0.70	0.16	0.70	0.16	0.72	-	-	-	-
FL1-FL3OVHD-SSM	Not operating during normal operating conditions																	
FL1-FL3CRYO-SSM	Not operating during normal operating conditions																	
Oil Storage Tanks 1-4 (Hourly VOC emissions)	-	-	-	-	5.05	-	-	-	-	-	-	-	-	-	-	-	-	-
Oil Storage Tanks 5-14 (Hourly VOC emissions)	-	-	-	-	12.93	-	-	-	-	-	-	-	-	-	-	-	-	-
IFR1-14 Annual VOC ³	-	-	-	-	-	70.48	-	-	-	-	-	-	-	-	-	-	-	-
ECD1 ²	1.77	7.69	3.04	13.24	4.65	20.23	-	-	0.073	0.12	0.073	0.12	0.15	0.67	-	-	-	-
ECD2 ^{2,4}																		
TO1 ²	0.28	1.22	0.17	0.74	0.30	1.31	-	-	0.15	0.65	0.15	0.65	0.15	0.65	-	-	-	-
TO2 ²	0.28	1.22	0.17	0.74	0.30	1.31	-	-	0.15	0.65	0.15	0.65	0.15	0.65	-	-	-	-
TO3 ²	0.28	1.22	0.17	0.74	0.30	1.31	-	-	0.15	0.65	0.15	0.65	0.15	0.65	-	-	-	-

Table 2-D: Maximum Emissions (under normal operating conditions)

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "--" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NOx		CO		VOC		SOx		PM ¹		PM10 ²		PM2.5 ²		H ₂ S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
TO4 ²	0.28	1.22	0.17	0.74	0.30	1.31	-	-	0.15	0.65	0.15	0.65	0.15	0.65	-	-	-	-
FUG	-	-	-	-	7.98	34.93	-	-	-	-	-	-	-	-	-	-	-	-
AU1	-	-	-	-	73.92	323.77	-	-	-	-	-	-	-	-	-	-	-	-
AU2	-	-	-	-	73.92	323.77	-	-	-	-	-	-	-	-	-	-	-	-
AU3	-	-	-	-	73.92	323.77	-	-	-	-	-	-	-	-	-	-	-	-
AU4	-	-	-	-	73.92	323.77	-	-	-	-	-	-	-	-	-	-	-	-
GBS1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PWTK1	-	-	-	-	1.34	5.86	-	-	-	-	-	-	-	-	-	-	-	-
PWTK2	-	-	-	-	1.34	5.86	-	-	-	-	-	-	-	-	-	-	-	-
SOTK1	-	-	-	-	459.04	2,010.59	-	-	-	-	-	-	-	-	-	-	-	-
SOTL	-	-	-	-	53.02	0.57	-	-	-	-	-	-	-	-	-	-	-	-
GEN1	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	0.20	0.010	-	-	-	-
GEN2	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	0.20	0.010	-	-	-	-
GEN3	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	0.20	0.010	-	-	-	-
GEN4	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	0.20	0.010	-	-	-	-
FWPE1	2.75	0.14	0.37	0.019	0.12	6.04E-03	1.28	0.06	0.093	4.66E-03	0.093	4.66E-03	0.093	4.66E-03	-	-	-	-
FWPE2	2.75	0.14	0.37	0.019	0.12	6.04E-03	1.28	0.06	0.093	4.66E-03	0.093	4.66E-03	0.093	4.66E-03	-	-	-	-
SSM/M	-	-	-	-	-	51.33	-	-	-	-	-	-	-	-	-	-	-	-
Totals	62.77	153.46	87.69	105.39	873.11	3,537.01	5.52	9.24	11.05	33.49	11.05	33.49	11.14	34.06	-	-	-	-

¹**Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but PM is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

²Only includes pilot/purge gas/assist gas emissions, other emissions not considered normal operating conditions.

³Annual VOC emissions are grouped together for IFR1 - IFR14. Worst-case annual withdrawal lossess were calculated by assuming total site throughput for each size group of IFR storage tanks and selecting the higher value to include in the total annual VOC emissions.

⁴ECD2 represents a portable backup combustor that will be used when ECD1 is not in service. XTO seeks authorization to use any portable combustor that is designed to meet the emission limits specified in this permit application.

Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "--" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E⁻⁴).

Unit No.	NO _x		CO		VOC		SO _x		PM ¹		PM10 ¹		PM2.5 ¹		H ₂ S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
SHTR1	1.97	41.35	1.20	25.24	0.47	9.91	0.16	3.42	0.55	11.54	0.55	11.54	0.55	11.54	-	-	-	-
SHTR2	1.97		1.20		0.47		0.16		0.55		0.55		0.55		-		-	
SHTR3	1.97		1.20		0.47		0.16		0.55		0.55		0.55		-		-	
SHTR4	1.97		1.20		0.47		0.16		0.55		0.55		0.55		-		-	
SHTR5	1.97		1.20		0.47		0.16		0.55		0.55		0.55		-		-	
SHTR6	1.97		1.20		0.47		0.16		0.55		0.55		0.55		-		-	
SHTR7	0.49	3.46	1.20	8.41	0.47	3.30	0.16	1.14	0.55	1.10	0.55	1.10	0.55	1.10	-	-	-	-
SHTR8	0.49		1.20		0.47		0.16		0.55		0.55		0.55		-		-	
CHTR1	3.95	27.66	1.93	13.50	0.76	5.30	0.26	1.83	0.88	6.17	0.88	6.17	0.88	6.17	-	-	-	-
CHTR2	3.95		1.93		0.76		0.26		0.88		0.88		0.88		-		-	
CHTR3	0.79	5.55	1.93	13.50	0.76	5.30	0.26	1.83	0.88	6.17	0.88	6.17	0.88	6.17	-	-	-	-
CHTR4	0.79		1.93		0.76		0.26		0.88		0.88		0.88		-		-	
RHTR1	1.18	16.49	0.72	10.07	0.28	3.95	0.097	1.36	0.33	4.60	0.33	4.60	0.33	4.60	-	-	-	-
RHTR2	1.18		0.72		0.28		0.097		0.33		0.33		0.33		-		-	
RHTR3	1.18		0.72		0.28		0.097		0.33		0.33		0.33		-		-	
RHTR4	1.18		0.72		0.28		0.097		0.33		0.33		0.33		-		-	
FL1-FL3	2.95	10.75	5.88	21.46	2.30	8.38	0.050	0.18	0.16	0.58	0.16	0.58	0.16	0.58				
Oil Storage Tanks 1-4 (Hourly VOC emissions)	-	-	-	-	5.05	-	-	-	-	-	-	-	-	-	-	-	-	-
Oil Storage Tanks 5-14 (Hourly VOC emissions)	-	-	-	-	12.93	-	-	-	-	-	-	-	-	-	-	-	-	-
IFR1-14 Annual VOC ³	-	-	-	-	-	70.48	-	-	-	-	-	-	-	-	-	-	-	-
ECD1	1.77	7.69	3.04	13.24	4.65	20.23	-	-	0.073	0.12	0.073	0.12	0.073	0.12	-	-	-	-
ECD2																		
TO1	3.56	15.59	2.17	9.49	0.72	3.24	0.88	3.87	0.19	0.82	0.19	0.82	0.19	0.82	-	-	-	-
TO2	3.56	15.59	2.17	9.49	0.72	3.24	0.88	3.87	0.19	0.82	0.19	0.82	0.19	0.82	-	-	-	-
TO3	3.56	15.59	2.17	9.49	0.72	3.24	0.88	3.87	0.19	0.82	0.19	0.82	0.19	0.82	-	-	-	-
TO4	3.56	15.59	2.17	9.49	0.72	3.24	0.88	3.87	0.19	0.82	0.19	0.82	0.19	0.82	-	-	-	-
FUG	-	-	-	-	7.98	34.93	-	-	-	-	-	-	-	-	-	-	-	-
AU1	Emissions are represented at TO1																	
AU2	Emissions are represented at TO2																	
AU3	Emissions are represented at TO3																	

Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "--" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E⁻⁴).

Unit No.	NO _x		CO		VOC		SO _x		PM ¹		PM10 ¹		PM2.5 ¹		H ₂ S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
AU4	Emissions are represented at TO4																	
GBS1	Emissions are represented at ECD1/ECD2																	
PWTK1	Emissions are represented at ECD1/ECD2																	
PWTK2	Emissions are represented at ECD1/ECD2																	
SOTK1	Emissions are represented at ECD1/ECD2																	
SOTL	-	-	-	-	0.69	7.43E-03	-	-	-	-	-	-	-	-	-	-	-	-
GEN1	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	0.20	0.010	-	-	-	-
GEN2	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	0.20	0.010	-	-	-	-
GEN3	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	0.20	0.010	-	-	-	-
GEN4	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	0.20	0.010	-	-	-	-
FWPE1	2.75	0.14	0.37	0.019	0.12	6.04E-03	1.28	0.06	0.093	4.66E-03	0.093	4.66E-03	0.093	4.66E-03	-	-	-	-
FWPE2	2.75	0.14	0.37	0.019	0.12	6.04E-03	1.28	0.06	0.093	4.66E-03	0.093	4.66E-03	0.093	4.66E-03	-	-	-	-
Totals	66.63	176.34	95.68	146.27	65.10	175.79	9.05	25.35	11.20	33.59	11.20	33.59	11.20	33.59	-	-	-	-

¹ **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

² For all pollutants except VOC/HAP, the hourly emission rate excludes the generators and overhead SSM stream as they cannot occur at the same time and the cryo SSM stream has a higher emission rate. For VOC, the overhead SSM stream is included with the highest hourly rate. For HAP, the generators have the highest hourly rate.

³ Annual VOC emissions are grouped together for IFR1 - IFR14. Worst-case annual withdrawal losses were calculated by assuming total site throughput for each size group of IFR storage tanks and selecting the higher value to include in the total annual VOC emissions.

All applications for facilities that have emissions during routine or predictable startup, shutdown or scheduled maintenance (SSM)¹, including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). In Section 6 and 6a, provide emissions calculations for all SSM emissions reported in this table. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (https://www.env.nm.gov/aqb/permit/aqb_pol.html) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

² **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

☒ I have elected to leave this table blank because this facility does not have any stacks/vents that split emissions from a single source or combine emissions from more than one source listed in table 2-A. Additionally, the emission rates of all stacks match the Requested allowable emission rates stated in Table 2-E.

Use this table to list stack emissions (requested allowable) from split and combined stacks. List Toxic Air Pollutants (TAPs) and Hazardous Air Pollutants (HAPs) in Table 2-I. List all fugitives that are associated with the normal, routine, and non-emergency operation of the facility. Unit and stack numbering must correspond throughout the application package. Refer to Table 2-E for instructions on use of the “-“ symbol and on significant figures.

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Table 2-H: Stack Exit Conditions

Unit and stack numbering must correspond throughout the application package. Include the stack exit conditions for each unit that emits from a stack, including blowdown venting parameters and tank emissions.

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation (H=Horizontal V=Vertical)	Rain Caps (Yes or No)	Height Above Ground (ft)	Temp. (F)	Flow Rate		Moisture by Volume (%)	Velocity (ft/sec)	Inside Diameter (ft)
						(acfs)	(dscfs)			
SHTR1	SHTR1	V	No	44.7	488	447	NA	0	35.6	4.0
SHTR2	SHTR2	V	No	44.7	488	447	NA	0	35.6	4.0
SHTR3	SHTR3	V	No	44.7	488	447	NA	0	35.6	4.0
SHTR4	SHTR4	V	No	44.7	488	447	NA	0	35.6	4.0
SHTR5	SHTR5	V	No	44.7	488	447	NA	0	35.6	4.0
SHTR6	SHTR6	V	No	44.7	488	447	NA	0	35.6	4.0
SHTR7	SHTR7	V	No	44.7	488	447	NA	0	35.6	4.0
SHTR8	SHTR8	V	No	44.7	488	447	NA	0	35.6	4.0
CHTR1	CHTR1	V	No	76.9	599	832	NA	0	66.2	4.0
CHTR2	CHTR2	V	No	76.9	599	832	NA	0	66.2	4.0
CHTR3	CHTR3	V	No	76.9	599	832	NA	0	66.2	4.0
CHTR4	CHTR4	V	No	76.9	599	832	NA	0	66.2	4.0
RHTR1	RHTR1	V	No	40.4	470	296	NA	0	53.0	2.7
RHTR2	RHTR2	V	No	40.4	470	296	NA	0	53.0	2.7
RHTR3	RHTR3	V	No	40.4	470	296	NA	0	53.0	2.7
RHTR4	RHTR4	V	No	40.4	470	296	NA	0	53.0	2.7
FL1	FL1	V	No	130.0	1832	139	NA	0	65.6	0.4
FL2	FL2	V	No	170.0	1832	139	NA	0	65.6	0.7
FL3	FL3	V	No	170.0	1832	139	NA	0	65.6	0.7
ECD1	ECD1	V	No	40.0	1450	529	NA	0	39.5	8.4
ECD2 ¹	ECD2	V	No	47.5	1600	2513	NA	0	39.5	9.0
TO1	TO1	V	No	58.0	1700	782.5	NA	0	58.6	4.1
TO2	TO2	V	No	58.0	1700	782.5	NA	0	58.6	4.1
TO3	TO3	V	No	58.0	1700	782.5	NA	0	58.6	4.1
TO4	TO4	V	No	58.0	1700	782.5	NA	0	58.6	4.1
GEN1	GEN1	V	No	14.0	736	260.3	NA	0	331.4	1.0

Table 2-H: Stack Exit Conditions

Unit and stack numbering must correspond throughout the application package. Include the stack exit conditions for each unit that emits from a stack, including blowdown venting parameters and tank emissions.

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation (H=Horizontal V=Vertical)	Rain Caps (Yes or No)	Height Above Ground (ft)	Temp. (F)	Flow Rate		Moisture by Volume (%)	Velocity (ft/sec)	Inside Diameter (ft)
						(acfs)	(dscfs)			
GEN2	GEN2	V	No	14.0	736	260.3	NA	0	331.4	1.0
GEN3	GEN3	V	No	14.0	736	260.3	NA	0	331.4	1.0
GEN4	GEN4	V	No	14.0	736	260.3	NA	0	331.4	1.0
FWPE1	FWPE1	V	No	15.0	868	58.9	NA	0	168.8	0.67
FWPE2	FWPE2	V	No	15.0	868	58.9	NA	0	168.8	0.67

¹ECD2 represents a portable backup combustor that will be used when ECD1 is not in service. XTO seeks authorization to use any portable combustor that is designed to meet the emission limits specified in this permit application.

Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year. For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

Stack No.	Unit No.(s)	Total HAPs		n-Hexane ☑ HAP or ☐ TAP		Benzene ☑ HAP or ☐ TAP		Toluene ☑ HAP or ☐ TAP		Ethylbenzene ☑ HAP or ☐ TAP		Xylene ☑ HAP or ☐ TAP		Formaldehyde ☑ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
SHTR1	SHTR1	0.14	0.81	0.13	0.69	1.52E-04	3.19E-03	2.46E-04	5.16E-03	-	-	-	-	5.42E-03	0.11				
SHTR2	SHTR2	0.14		0.13		1.52E-04		2.46E-04		-		-		5.42E-03					
SHTR3	SHTR3	0.14		0.13		1.52E-04		2.46E-04		-		-		5.42E-03					
SHTR4	SHTR4	0.14		0.13		1.52E-04		2.46E-04		-		-		5.42E-03					
SHTR5	SHTR5	0.14		0.13		1.52E-04		2.46E-04		-		-		5.42E-03					
SHTR6	SHTR6	0.14		0.13		1.52E-04		2.46E-04		-		-		5.42E-03					
SHTR7	SHTR7	0.14	0.27	0.13	0.23	1.52E-04	1.06E-03	2.46E-04	1.72E-03	-	-	-	-	5.42E-03	0.038				
SHTR8	SHTR8	0.14		0.13		1.52E-04		2.46E-04		-		-		5.42E-03					
CHTR1	CHTR1	0.22	0.44	0.21	0.37	2.43E-04	1.71E-03	3.94E-04	2.76E-03	-	-	-	-	8.69E-03	0.061				
CHTR2	CHTR2	0.22		0.21		2.43E-04		3.94E-04		-		-		8.69E-03					
CHTR3	CHTR3	0.22	0.44	0.21	0.37	2.43E-04	1.71E-03	3.94E-04	2.76E-03	-	-	-	-	8.69E-03	0.061				
CHTR4	CHTR4	0.22		0.21		2.43E-04		3.94E-04		-		-		8.69E-03					
RHTR1	RHTR1	0.081	0.32	0.078	0.27	9.07E-05	1.27E-03	1.47E-04	2.06E-03	-	-	-	-	3.24E-03	0.045				
RHTR2	RHTR2	0.081		0.078		9.07E-05		1.47E-04		-		-		3.24E-03					
RHTR3	RHTR3	0.081		0.078		9.07E-05		1.47E-04		-		-		3.24E-03					
RHTR4	RHTR4	0.081		0.078		9.07E-05		1.47E-04		-		-		3.24E-03					
FL1-FL3'	FL1-FL3'	0.16	0.60	0.072	0.31	0.013	0.058	0.029	0.13	1.35E-03	5.93E-03	0.012	0.052	-	-				
FL1-FL3'	FL1-FL3OVHD-SSM	61.34	1.79	39.74	1.30	6.79	0.18	8.01	0.18	1.35E-03	5.93E-03	4.48	0.091	-	-				
FL1-FL3'	FL1-FL3CRYO-SSM	10.88	0.17	9.08	0.14	0.82	0.013	0.97	0.015	-	-	-	-	-	-				
Oil Storage Tanks 1-4	IFR 1-4	0.060	0.26	0.037	0.16	2.34E-03	0.010	6.37E-03	0.028	1.70E-03	7.43E-03	8.95E-03	0.039	-	-				
Oil Storage Tanks 5-14	IFR 5-14	0.059	0.26	0.044	0.19	2.47E-03	0.011	4.41E-03	0.019	8.12E-04	3.56E-03	4.13E-03	0.018	-	-				
ECD1	ECD1	0.15	0.67	0.13	0.56	0.010	0.044	7.24E-03	0.032	3.35E-04	1.46E-03	1.96E-03	8.55E-03	-	-				
ECD2	ECD2																		
TO1	TO1	0.018	0.079	3.59E-03	0.016	3.59E-03	0.016	3.59E-03	0.016	3.59E-03	0.016	3.59E-03	0.016	-	-				
TO2	TO2	0.018	0.079	3.59E-03	0.016	3.59E-03	0.016	3.59E-03	0.016	3.59E-03	0.016	3.59E-03	0.016	-	-				

Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year. For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

Stack No.	Unit No.(s)	Total HAPs		n-Hexane ☑ HAP or ☐ TAP		Benzene ☑ HAP or ☐ TAP		Toluene ☑ HAP or ☐ TAP		Ethylbenzene ☑ HAP or ☐ TAP		Xylene ☑ HAP or ☐ TAP		Formaldehyde ☑ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
TO3	TO3	0.018	0.079	3.59E-03	0.016	3.59E-03	0.016	3.59E-03	0.016	3.59E-03	0.016	3.59E-03	0.016	-	-				
TO4	TO4	0.018	0.079	3.59E-03	0.016	3.59E-03	0.016	3.59E-03	0.016	3.59E-03	0.016	3.59E-03	0.016	-	-				
FUG	FUG	1.39	6.10	0.25	1.09	0.053	0.23	0.14	0.61	0.035	0.15	0.18	0.80	-	-				
TO1	AU1	Emissions are represented at TO1.																	
TO2	AU2	Emissions are represented at TO2.																	
TO3	AU3	Emissions are represented at TO3.																	
TO4	AU4	Emissions are represented at TO4.																	
ECD1/ECD2	GBS1	Emissions are represented at ECD1/ECD2.																	
ECD1/ECD2	PWTK1	Emissions are represented at ECD1/ECD2.																	
ECD1/ECD2	PWTK2	Emissions are represented at ECD1/ECD2.																	
ECD1/ECD2	SOTK1	Emissions are represented at ECD1/ECD2.																	
ECD1/ECD2	SOTL	0.021	2.23E-04	0.014	1.46E-04	-	-	-	-	-	-	-	-	-	-				
GEN1	GEN1	2.17	0.11	0.022	1.12E-03	-	-	-	-	-	-	-	-	1.98	0.099				
GEN2	GEN2	2.17	0.11	0.022	1.12E-03	-	-	-	-	-	-	-	-	1.98	0.099				
GEN3	GEN3	2.17	0.11	0.022	1.12E-03	-	-	-	-	-	-	-	-	1.98	0.099				
GEN4	GEN4	2.17	0.11	0.022	1.12E-03	-	-	-	-	-	-	-	-	1.98	0.099				
FWPE1	FWPE1	8.60E-03	4.30E-04	-	-	-	-	-	-	-	-	-	-	5.21E-03	2.61E-04				
FWPE2	FWPE2	8.60E-03	4.30E-04	-	-	-	-	-	-	-	-	-	-	5.21E-03	2.61E-04				
Totals:		85.12	12.89	51.65	5.74	7.71	0.62	9.19	1.09	0.055	0.24	4.70	1.07	8.01	0.71				

Table 2-J: Fuel

Specify fuel characteristics and usage. Unit and stack numbering must correspond throughout the application package.

Unit No.	Fuel Type (low sulfur Diesel, ultra low sulfur diesel, Natural Gas, Coal, ...)	Fuel Source: purchased commercial, pipeline quality natural gas, residue gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other	Specify Units				
			Lower Heating Value (Btu/scf)	Hourly Usage (scf)	Annual Usage (mmscf)	% Sulfur (by weight)	% Ash
SHTR1	Natural Gas	Residue Gas	913.7	60,194.1	527.3	< 0.0025	N/A
SHTR2	Natural Gas	Residue Gas	913.7	60,194.1	527.3	< 0.0025	N/A
SHTR3	Natural Gas	Residue Gas	913.7	60,194.1	527.3	< 0.0025	N/A
SHTR4	Natural Gas	Residue Gas	913.7	60,194.1	527.3	< 0.0025	N/A
SHTR5	Natural Gas	Residue Gas	913.7	60,194.1	527.3	< 0.0025	N/A
SHTR6	Natural Gas	Residue Gas	913.7	60,194.1	527.3	< 0.0025	N/A
SHTR7	Natural Gas	Residue Gas	913.7	60,194.1	527.3	< 0.0025	N/A
SHTR8	Natural Gas	Residue Gas	913.7	60,194.1	527.3	< 0.0025	N/A
CHTR1	Natural Gas	Residue Gas	913.7	96,567.9	845.9	< 0.0025	N/A
CHTR2	Natural Gas	Residue Gas	913.7	96,567.9	845.9	< 0.0025	N/A
CHTR3	Natural Gas	Residue Gas	913.7	96,567.9	845.9	< 0.0025	N/A
CHTR4	Natural Gas	Residue Gas	913.7	96,567.9	845.9	< 0.0025	N/A
RHTR1	Natural Gas	Residue Gas	913.7	36,006.1	315.4	< 0.0025	N/A
RHTR2	Natural Gas	Residue Gas	913.7	36,006.1	315.4	< 0.0025	N/A
RHTR3	Natural Gas	Residue Gas	913.7	36,006.1	315.4	< 0.0025	N/A
RHTR4	Natural Gas	Residue Gas	913.7	36,006.1	315.4	< 0.0025	N/A
FL1	Natural Gas	Residue Gas	913.7	1,600.0	14.0	< 0.0025	N/A
FL2	Natural Gas	Residue Gas	913.7	1,600.0	14.0	< 0.0025	N/A
FL3	Natural Gas	Residue Gas	913.7	1,600.0	14.0	< 0.0025	N/A
GEN1	Natural Gas	Residue Gas	913.7	24,586.3	215.4	< 0.0025	N/A
GEN2	Natural Gas	Residue Gas	913.7	24,586.3	215.4	< 0.0025	N/A
GEN3	Natural Gas	Residue Gas	913.7	24,586.3	215.4	< 0.0025	N/A
GEN4	Natural Gas	Residue Gas	913.7	24,586.3	215.4	< 0.0025	N/A
ECD1	Natural Gas	Residue Gas	913.7	180.0	1.6	< 0.0025	N/A
ECD2	Natural Gas	Residue Gas	913.7	270.0	2.4	< 0.0025	N/A
TO1	Natural Gas	Residue Gas	1,030.8	19,430.0	170.2	< 0.0025	N/A
TO2	Natural Gas	Residue Gas	1,030.8	19,430.0	170.2	< 0.0025	N/A
TO3	Natural Gas	Residue Gas	1,030.8	19,430.0	170.2	< 0.0025	N/A
TO4	Natural Gas	Residue Gas	1,030.8	19,430.0	170.2	< 0.0025	N/A
FWPE1	Ultra Low Sulfur Diesel	Purchased	0.138 MMBtu/gal	32.0 gal/hr	0.003 gal/hr	15 ppm	N/A
FWPE2	Ultra Low Sulfur Diesel	Purchased	0.138 MMBtu/gal	32.0 gal/hr	0.003 gal/hr	15 ppm	N/A

Table 2-K: Liquid Data for Tanks Listed in Table 2-L

For each tank, list the liquid(s) to be stored in each tank. If it is expected that a tank may store a variety of hydrocarbon liquids, enter "mixed hydrocarbons" in the Composition column for that tank and enter the corresponding data of the most volatile liquid to be stored in the tank. If tank is to be used for storage of different materials, list all the materials in the "All Calculations" attachment, run the newest version of TANKS on each, and use the material with the highest emission rate to determine maximum uncontrolled and requested allowable emissions rate. The permit will specify the most volatile category of liquids that may be stored in each tank. Include appropriate tank-flashing modeling input data. Use additional sheets if necessary. Unit and stack numbering must correspond throughout the application package.

Tank No.	SCC Code	Material Name	Composition	Liquid Density (lb/gal)	Vapor Molecular Weight (lb/lb*mol)	Average Storage Conditions ¹		Max Storage Conditions ¹	
						Temperature (°F)	True Vapor Pressure (psia)	Temperature (°F)	True Vapor Pressure (psia)
IFR1	40400331	Oil/Condensate	Oil/Condensate	6.54	53.15	100.00	11.10	100.00	11.10
IFR2	40400331	Oil/Condensate	Oil/Condensate	6.54	53.15	100.00	11.10	100.00	11.10
IFR3	40400331	Oil/Condensate	Oil/Condensate	6.54	53.15	100.00	11.10	100.00	11.10
IFR4	40400331	Oil/Condensate	Oil/Condensate	6.54	53.15	100.00	11.10	100.00	11.10
IFR5	40400331	Oil/Condensate	Oil/Condensate	6.54	53.13	100.00	11.10	100.00	11.10
IFR6	40400331	Oil/Condensate	Oil/Condensate	6.54	53.13	100.00	11.10	100.00	11.10
IFR7	40400331	Oil/Condensate	Oil/Condensate	6.54	53.13	100.00	11.10	100.00	11.10
IFR8	40400331	Oil/Condensate	Oil/Condensate	6.54	53.13	100.00	11.10	100.00	11.10
IFR9	40400331	Oil/Condensate	Oil/Condensate	6.54	53.13	100.00	11.10	100.00	11.10
IFR10	40400331	Oil/Condensate	Oil/Condensate	6.54	53.13	100.00	11.10	100.00	11.10
IFR11	40400331	Oil/Condensate	Oil/Condensate	6.54	53.13	100.00	11.10	100.00	11.10
IFR12	40400331	Oil/Condensate	Oil/Condensate	6.54	53.13	100.00	11.10	100.00	11.10
IFR13	40400331	Oil/Condensate	Oil/Condensate	6.54	53.13	100.00	11.10	100.00	11.10
IFR14	40400331	Oil/Condensate	Oil/Condensate	6.54	53.13	100.00	11.10	100.00	11.10
GBS1	31000506	Produced Water	Produced Water w/ Trace Oils	8.26	42.92	90.00	14.95	90.00	14.95
PWTK1	40400315	Produced Water	Produced Water w/ Trace Oils	8.30	42.92	75.80	12.03	75.80	12.03
PWTK2	40400315	Produced Water	Produced Water w/ Trace Oils	8.30	42.92	75.80	12.03	75.80	12.03
SOTK1	40400311	Oil/Condensate	Oil/Condensate	5.89	54.21	75.80	11.33	75.80	11.33

¹Representative of storage conditions at highest calendar-month average storage temperature consistent with 40 CFR 60, Subparts Kb and Kc, as applicable

Table 2-L: Tank Data

Include appropriate tank-flashing modeling input data. Use an addendum to this table for unlisted data categories. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary. See reference Table 2-L2. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

Tank No.	Date Installed	Materials Stored	Seal Type (refer to Table 2-LR below)	Roof Type (refer to Table 2-LR below)	Capacity		Diameter (M)	Vapor Space (M)	Color (from Table VI-C)		Paint Condition (from Table VI-C)	Annual Throughput (gal/yr)	Turn-overs (per year)
					(bbl)	(M ³)			Roof	Shell			
IFR1	TBD	Oil/Condensate	C	IF	50,000	7,949	30.5	13.4	Tan	Tan	Good	2,299,500,000	1095
IFR2	TBD	Oil/Condensate	C	IF	50,000	7,949	30.5	13.4	Tan	Tan	Good	2,299,500,000	1095
IFR3	TBD	Oil/Condensate	C	IF	50,000	7,949	30.5	13.4	Tan	Tan	Good	2,299,500,000	1095
IFR4	TBD	Oil/Condensate	C	IF	50,000	7,949	30.5	13.4	Tan	Tan	Good	2,299,500,000	1095
IFR5	TBD	Oil/Condensate	C	IF	100,000	15,899	39.8	15.2	Tan	Tan	Good	919,800,000	219
IFR6	TBD	Oil/Condensate	C	IF	100,000	15,899	39.8	15.2	Tan	Tan	Good	919,800,000	219
IFR7	TBD	Oil/Condensate	C	IF	100,000	15,899	39.8	15.2	Tan	Tan	Good	919,800,000	219
IFR8	TBD	Oil/Condensate	C	IF	100,000	15,899	39.8	15.2	Tan	Tan	Good	919,800,000	219
IFR9	TBD	Oil/Condensate	C	IF	100,000	15,899	39.8	15.2	Tan	Tan	Good	919,800,000	219
IFR10	TBD	Oil/Condensate	C	IF	100,000	15,899	39.8	15.2	Tan	Tan	Good	919,800,000	219
IFR11	TBD	Oil/Condensate	C	IF	100,000	15,899	39.8	15.2	Tan	Tan	Good	919,800,000	219
IFR12	TBD	Oil/Condensate	C	IF	100,000	15,899	39.8	15.2	Tan	Tan	Good	919,800,000	219
IFR13	TBD	Oil/Condensate	C	IF	100,000	15,899	39.8	15.2	Tan	Tan	Good	919,800,000	219
IFR14	TBD	Oil/Condensate	C	IF	100,000	15,899	39.8	15.2	Tan	Tan	Good	919,800,000	219
GBS1	TBD	Produced Water	NA	FX	1,000	159	4.7	7.3	Tan	Tan	Good	93,513,000	2227
PWTK1	TBD	Produced Water	NA	FX	750	119	4.7	7.3	Tan	Tan	Good	46,756,500	1114
PWTK2	TBD	Produced Water	NA	FX	750	119	4.7	7.3	Tan	Tan	Good	46,756,500	1114
SOTK1	TBD	Slop - Oil/Condensate	NA	FX	500	79	3.7	7.6	Tan	Tan	Good	4,599,000	219

Table 2-L2: Liquid Storage Tank Data Codes Reference Table

Roof Type	Seal Type, Welded Tank Seal Type		Seal Type, Riveted Tank Seal Type		Roof, Shell Color	Paint Condition
FX: Fixed Roof	Mechanical Shoe Seal	Liquid-mounted resilient seal	Vapor-mounted resilient seal	Seal Type	WH: White	Good
IF: Internal Floating Roof	A: Primary only	A: Primary only	A: Primary only	A: Mechanical shoe, primary only	AS: Aluminum (specular)	Poor
EF: External Floating Roof	B: Shoe-mounted secondary	B: Weather shield	B: Weather shield	B: Shoe-mounted secondary	AD: Aluminum (diffuse)	
P: Pressure	C: Rim-mounted secondary	C: Rim-mounted secondary	C: Rim-mounted secondary	C: Rim-mounted secondary	LG: Light Gray	
					MG: Medium Gray	
					BL: Black	
					OT: Other (specify)	

Note: 1.00 bbl = 0.159 M³ = 42.0 gal**Table 2-M: Materials Processed and Produced** (Use additional sheets as necessary.)

Material Processed				Material Produced			
Description	Chemical Composition	Phase (Gas, Liquid, or Solid)	Quantity (specify units)	Description	Chemical Composition	Phase	Quantity (specify units)
Mixed Hydrocarbons	Oil/Condensate	Liquid	600,000 (BOPD)	Mixed Hydrocarbons	Oil/Condensate	Liquid	600,000 (BOPD)
	Produced Water	Liquid	6,100 (BWPD)		Produced Water	Liquid	6,100 (BWPD)
	Natural Gas	Gas	1,600 (MMSCFD)		Natural Gas	Gas	1,000 (MMSCFD)
	Natural Gas Liquids	Liquid	190,000 (BOPD)		Natural Gas Liquids	Liquid	190,000 (BOPD)

Table 2-N: CEM Equipment

Enter Continuous Emissions Measurement (CEM) Data in this table. If CEM data will be used as part of a federally enforceable permit condition, or used to satisfy the requirements of a state or federal regulation, include a copy of the CEM's manufacturer specification sheet in the Information Used to Determine Emissions attachment. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

[illegible]

Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

Form Revision: 5/3/2016 Table 2-O: Page 1 Printed 5/30/2025 12:47 PM

Table 2-P: Greenhouse Gas Emissions

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

		CO ₂ ton/yr	N ₂ O ton/yr	CH ₄ ton/yr	SF ₆ ton/yr	PFC/HFC ton/yr ²								Total GHG Mass ton/yr ⁴	Total CO ₂ e ton/yr ⁵
Unit No.	GWPs ¹	1	265	28	22,800	footnote 3									
SHTR1-6	mass GHG	181,191.43	0.34	3.41										181,195.18	
	CO ₂ e	181,191.43	90.49	95.62											181,377.53
SHTR7-8	mass GHG	60,397.14	0.11	1.14										60,398.39	
	CO ₂ e	60,397.14	30.16	31.87											60,459.18
CHTR1-2	mass GHG	96,893.70	0.18	1.83										96,895.71	
	CO ₂ e	96,893.70	48.39	51.13											96,993.22
CHTR3-4	mass GHG	96,893.70	0.18	1.83										96,895.71	
	CO ₂ e	96,893.70	48.39	51.13											96,993.22
RHTR1-4	mass GHG	72,255.19	0.14	1.36										72,256.69	
	CO ₂ e	72,255.19	36.09	38.13											72,329.41
FL1-FL3	mass GHG	10,858.06	0.017	44.26										10,902.33	
	CO ₂ e	10,858.06	4.55	1,239.22											12,101.83
FL1-FL3OVHD-SSM	mass GHG	10,438.22	0.014	1.07										10,439.30	
	CO ₂ e	10,438.22	3.62	29.87											10,471.71
FL1-FL3CRYO-SSM	mass GHG	13,504.54	0.012	43.35										13,547.90	
	CO ₂ e	13,504.54	3.28	1,213.80											14,721.62
IFR1-IFR14	mass GHG	-	-	0.44										0.44	
	CO ₂ e	-	-	12.33											12.33
ECD1 / ECD2	mass GHG	6,347.11	9.37E-03	0.54										6,347.65	
	CO ₂ e	6,347.11	2.48	15.11											6,362.21
TO1	mass GHG	125,044.57	0.024	13.98										125,058.57	
	CO ₂ e	125,044.57	6.40	391.49											125,442.46
TO2	mass GHG	125,044.57	0.024	13.98										125,058.57	
	CO ₂ e	125,044.57	6.40	391.49											125,442.46
TO3	mass GHG	125,044.57	0.024	13.98										125,058.57	
	CO ₂ e	125,044.57	6.40	391.49											125,442.46
TO4	mass GHG	125,044.57	0.024	13.98										125,058.57	
	CO ₂ e	125,044.57	6.40	391.49											125,442.46
FUG	mass GHG	0.76	-	119.59										120.35	
	CO ₂ e	0.76	-	3,348.50											3,349.26
SOTL	mass GHG	2.25E-06	-	3.69E-06										5.94E-06	
	CO ₂ e	2.25E-06	-	1.03E-04											1.06E-04
GEN1-GEN4	mass GHG	627.89	8.91E-04	8.91E-03										627.90	
	CO ₂ e	627.89	0.24	0.25											628.38
FWPE1-2	mass GHG	47.80	9.74E-05	9.74E-04										47.80	
	CO ₂ e	47.80	0.026	0.027											47.86
Total	mass GHG	1,049,633.80	1.11	274.75										1,049,909.65	
	CO ₂ e	1,049,633.80	293.31	7,692.96											1,057,617.58

¹ GWP (Global Warming Potential): Applicants must use the most current GWPs codified in Table A-1 of 40 CFR part 98. GWPs are subject to change, therefore, applicants need to check 40 CFR 98 to confirm GWP values.

² For HFCs or PFCs describe the specific HFC or PFC compound and use a separate column for each individual compound.

³ For each new compound, enter the appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

⁴ Green house gas emissions on a **mass basis** is the ton per year green house gas emission before adjustment with its GWP.

⁵ **CO₂e** means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

Section 3

Application Summary

The **Application Summary** shall include a brief description of the facility and its process, the type of permit application, the applicable regulation (i.e. 20.2.72.200.A.X, or 20.2.73 NMAC) under which the application is being submitted, and any air quality permit numbers associated with this site. If this facility is to be collocated with another facility, provide details of the other facility including permit number(s). In case of a revision or modification to a facility, provide the lowest level regulatory citation (i.e. 20.2.72.219.B.1.d NMAC) under which the revision or modification is being requested. Also describe the proposed changes from the original permit, how the proposed modification will affect the facility's operations and emissions, de-bottlenecking impacts, and changes to the facility's major/minor status (both PSD & Title V).

The **Process Summary** shall include a brief description of the facility and its processes.

Startup, Shutdown, and Maintenance (SSM) routine or predictable emissions: Provide an overview of how SSM emissions are accounted for in this application. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions.

Application Summary

XTO Energy Inc. (XTO) is submitting this updated initial Title V operating permit application for the Cowboy Central Delivery Point (CDP) facility. This application is being submitted under section 20.2.70.200.A NMAC. The facility is located approximately 14 miles southeast of Malaga in Eddy County, New Mexico. This facility is currently authorized under NSR Permit No. 7877-M3, issued on April 25, 2025. XTO is submitting this updated application to reflect the updates made with the issuance of NSR Permit No. 7877-M2, issued on June 4, 2024, as well as the issuance of NSR Permit No. 7877-M3, issued on April 25, 2025.

The following is a summary of the modifications made in the issuance of NSR Permit No. 7787-M2:

- Permitted six (6) oil tanks, each with a capacity of 100,000 bbl
- Modified tanks (IFR1-4) emissions to route total condensate throughput (600,000 bbl/day) through either 50,000 bbl or 100,000 bbl tanks
 - The throughputs of natural gas (1 BSCFD), oil (600,000 bbl/day), and natural gas liquid (190,000 bbl/day) of this facility remained unchanged.
- Updated the number of fugitive components
 - Includes the update of the fugitive emission factors for the petroleum storage transfer unit portion based on the Protocol for Equipment Leak Emission Estimates Table 2-3 for Marketing Terminal Average Emission factors.
 - Fugitive emission factors represent the facility fugitive emissions more accurately.
- Updated inlet gas analysis
- Updated Flare-3 (FL-3) pilot and purge gas emissions per manufacturer specifications.

The following is a summary of the modifications made in the issuance of NSR Permit No. 7787-M3:

- Revised potential flaring emissions (FL1-FL3) based upon updated annual flare volume estimates at full plant built out and capacity
 - Flare stream compositions, MW, and heating values are also updated based on recent flare stream sample analysis.
- Revised potential enclosed combustor (ECD1) emissions based upon updated produced water and slop oil storage throughput estimates at full plant built out and capacity
- Revised produced water and slop oil emissions based upon recent sample analysis of slop oil streams
- Permitted a portable backup combustor that would only be used if the existing combustor is out of service

- Two different portable ECD models (ECD2a/b) were considered as represented in Table 2A and 2H. Annual emissions conservatively assume that the backup combustor could operate up to 8,760 hrs per year. The combustors will not operate at the same time; therefore, total combustor emissions are based on worst-case emissions from ECD1 or ECD2a/b. Note that under NSR Permit No. 7787-M3R1 unit ECD2a/b has been updated to unit ECD2.
- Revised heater potential emissions based upon recent fuel gas sample analysis
 - Also grouped like heaters (SHTR1-SHTR8, CHTR1-4, RHTR1-4) and combined annual emission limits for each heater grouping.
- Revised oil storage tank emissions (IFR1-IFR14) to reflect an average bulk storage temperature of 100 F and recent oil sample analysis
- Revised/clarified the process gas limit of 1 BSCF/day or 365 BSCF/year
 - At full build out, up to 1.6 BSCF/day field gas can be routed to the Cowboy facility with up to 1 BSCF/day being processed in the Cowboy gas plant facilities and the remaining rich gas being routed to offsite 3rd party gas processors. This clarification of the process gas limits did not change the permit emissions but was intended to clarify the process gas permit throughput limit.
- Updated process flow diagram and process description provided in Sections 4 and 10, respectively
- Permitted two (2) fire pump engines (FWPE1-2) for emergency fire protection equipment
- Removed four (4) ARIAL KBZ/6 6500 hp electric residue gas compressors (ERESCOMP15-18)
- Removed molecular sieve dehydrators (MOL1-4) and cryogenic trains (CRYO1-4) from the permit
 - These units are not sources of emissions and are not subject to any local or federal standards, although they remain part of the Cowboy facility.

The following is a summary of the modifications made in the issuance of NSR Permit No. 7787-M3R1:

Cowboy CDP has a gunbarrel tank (GBS1), slop oil tank (SOTK), slop oil truck loading (SOTL), and produced water tanks (PWTK1 & PWTK2). Emissions from these units are controlled by a combustor (ECD1) with a portable backup combustor (ECD2) used when ECD1 is not in service. ECD2 was listed as ECD2a/b under permit 7787-M3 with two model numbers in Table 2-A. The portable backup combustor ECD2 will generally be used when ECD1 is out of service for maintenance or repairs. Such events can occur with short notice. Also, the availability of a specific make and model portable combustor can change regularly as vendors may provide the unit to another customer. For these reasons, XTO authorized the use any portable combustor for ECD2 so long as the unit is designed to comply with the current permitted emission limits for ECD2 under 7787-M3R1. This change did not result in an increase in the potential emission rate of any permitted pollutant.

Process Summary

Cowboy CDP consists of gas processing facilities and oil/natural gas liquids (NGLs) processing facilities. The gas processing facilities utilize amine sweetening units to remove hydrogen sulfide (H₂S) and carbon dioxide (CO₂) from raw natural gas as needed to meet product specification. The sweetened gas is then routed to dehydration facilities to eliminate moisture. The sweetened and dried gas then enters cryogenic units, where it is cooled to condense and separate valuable NGLs out of the raw gas stream. Utility hot oil systems with gas-fired auxiliary heaters are used to provide the required heat to the distillation processes in the cryogenic units. The remaining residue gas is sold via pipelines. The incoming oil and NGLs both undergo stabilization via heating and distillation processes by means of two utility hot oil systems with separate gas-fired auxiliary heaters, thereby eliminating volatile components from the oil and NGLs for safe transportation via pipeline. The facility can receive up to 600,000 barrels of oil per day from surrounding field production tank batteries. The facility also has storage tanks for storing the processed oil and a portion of the NGLs before export. The oil and NGLs are transferred offsite via pipelines, while produced water and slop oil can be shipped via pipeline or transported offsite by truck.

Startup, Shutdown, and Maintenance (SSM) routine or predictable emissions

SSM emissions from equipment maintenance are routed to either the low pressure or high pressure flare header (FL1-FL3). SSM streams routed to the flares could include process vessel purging and blowdowns associated with startup, shutdown, and maintenance activities and events. Separate SSM flaring limits have been established for process equipment associated with the oil and NGL stabilization and the natural gas processing cryo trains. SSM and malfunction (M) emissions not routed to the system were quantified at the facility. The SSM/M emissions include blowdowns and degassing from various equipment and like-kind

SSM/M activities were grouped together. Emissions for some like-kind SSM activities were less than 0.5 tpy and are identified as insignificant activities in the emission calculations and in UA2 Table 2-B.

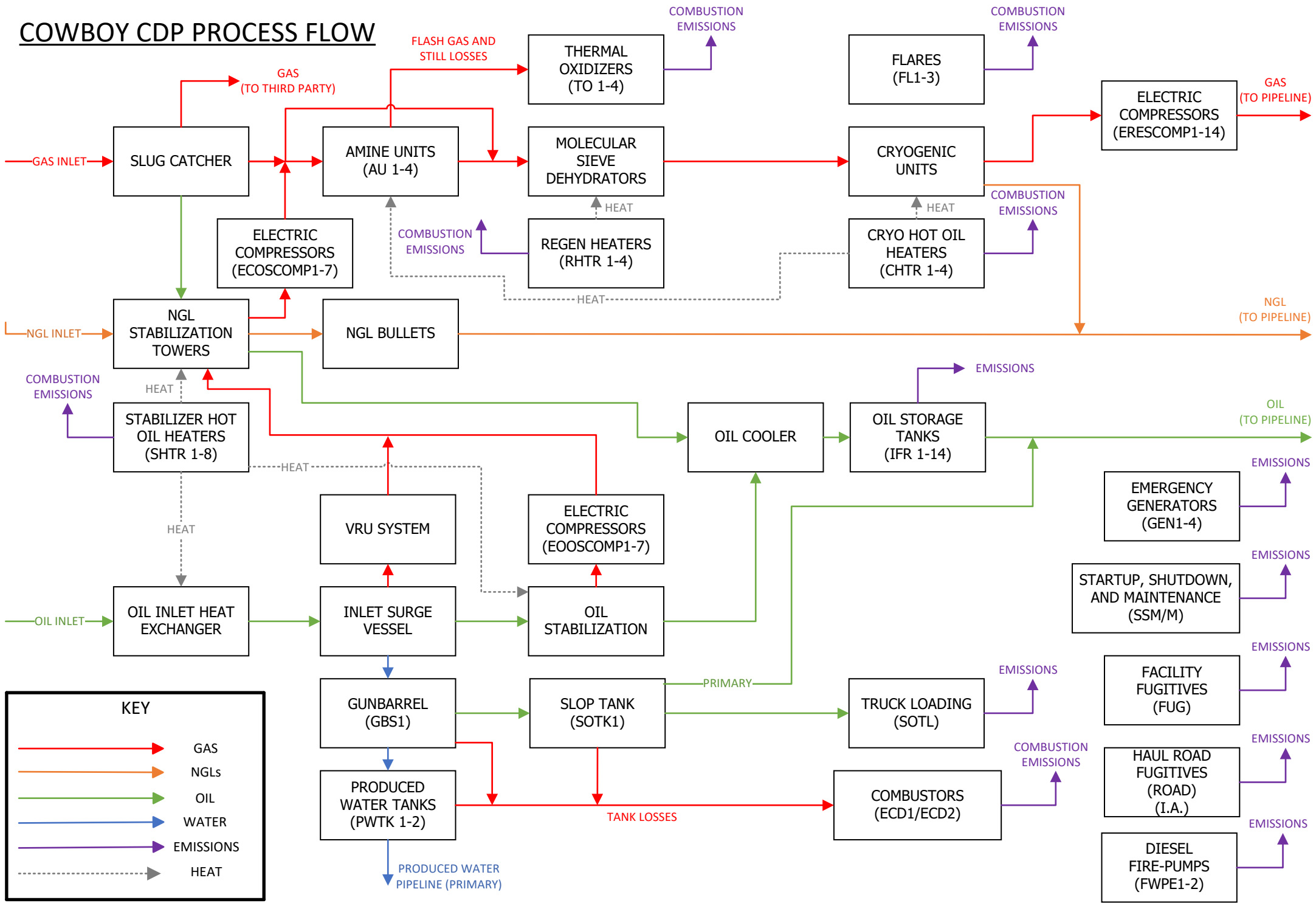
Section 4

Process Flow Sheet

A **process flow sheet** and/or block diagram indicating the individual equipment, all emission points and types of control applied to those points. The unit numbering system should be consistent throughout this application.

A Process Flow Diagram is attached to this application.

COWBOY CDP PROCESS FLOW

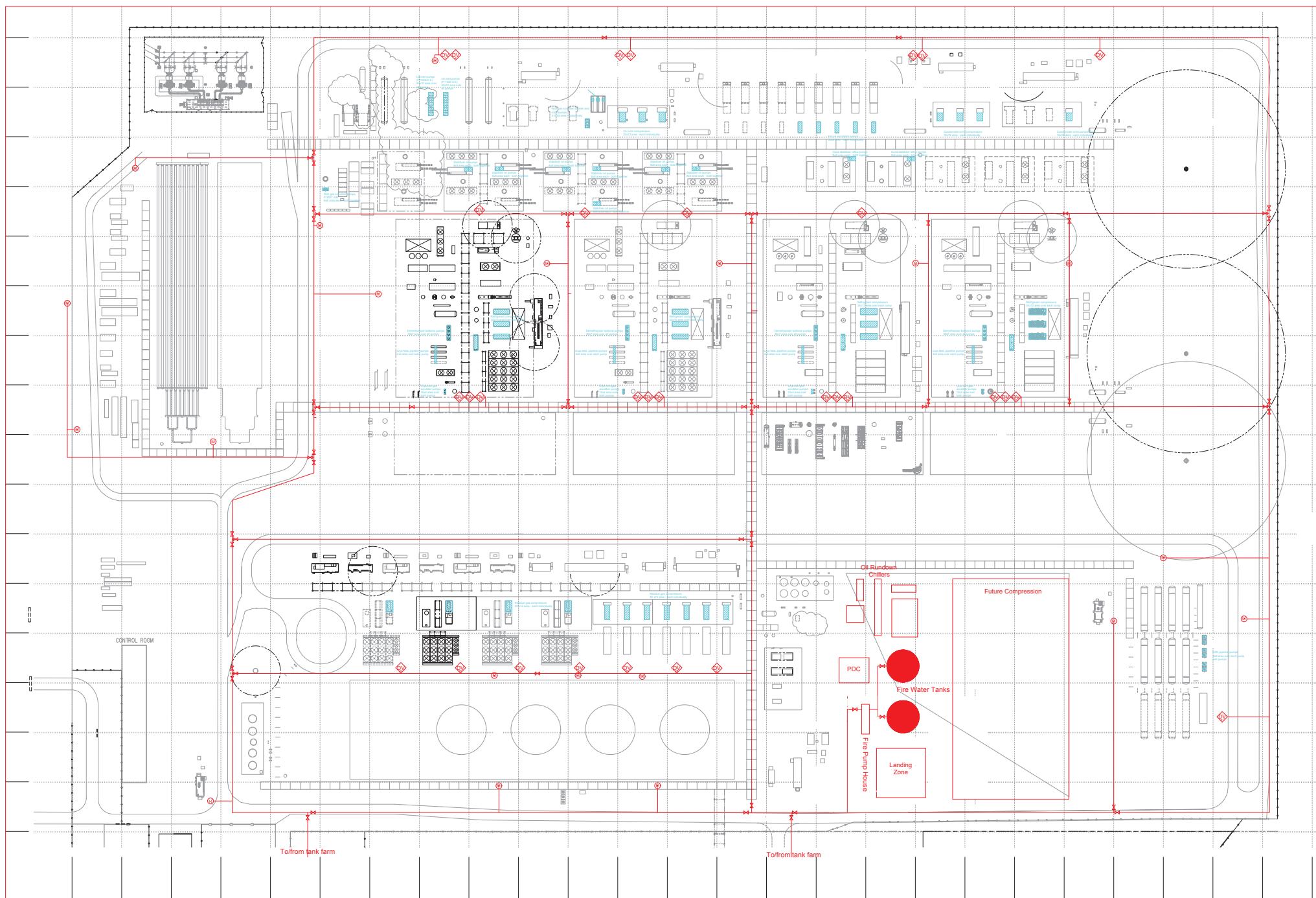


Section 5

Plot Plan Drawn to Scale

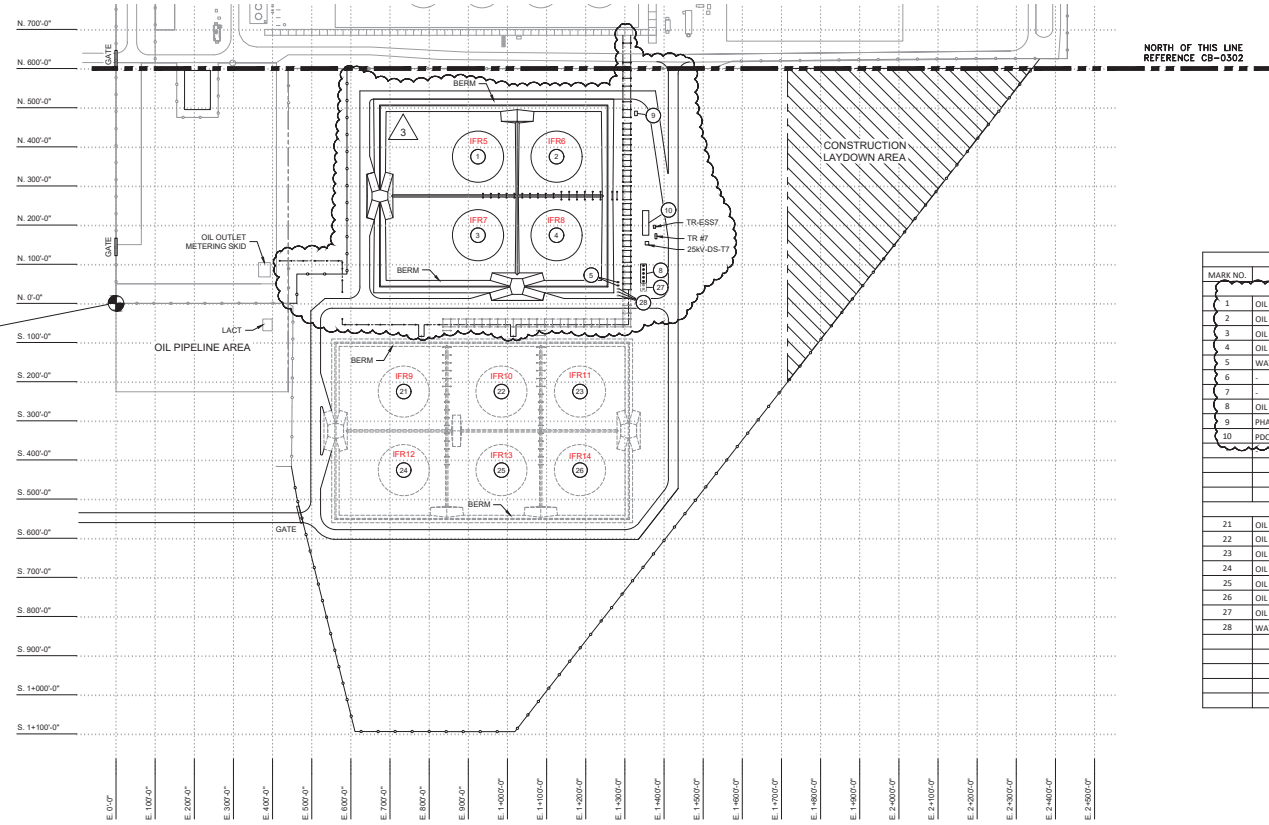
A **plot plan drawn to scale** showing emissions points, roads, structures, tanks, and fences of property owned, leased, or under direct control of the applicant. This plot plan must clearly designate the restricted area as defined in UA1, Section 1-D.12. The unit numbering system should be consistent throughout this application.

A plot plan is attached to this application.





BENCHMARK:
NORTHING: 421116.9'
EASTING: 693219.8'
ELEV: 3379.77'
PLANT GRID COORD:
N: 0+00'-00"
E: 0+00'-00"
PLANT ELEV: 100'-0"



EQUIPMENT INDEX		
MARK NO.	DESCRIPTION	TAG NO.
TANK FARM AREA - PHASE 2		
1	OIL STORAGE TANK	TK-4211
2	OIL STORAGE TANK	TK-4212
3	OIL STORAGE TANK	TK-4213
4	OIL STORAGE TANK	TK-4214
5	WATER DRAW-OFF PUMPS	P-4221A/B
6	-	-
7	-	-
8	OIL BOOSTER PUMPS	P-4411 / 4412 / 4413 / 4414 / 4415
9	PHASE 2 OIL TANK AFFF SYSTEM	PK-6448
10	PDC-7	-
TANK FARM AREA - PHASE 3		
21	OIL STORAGE TANK	TK-4215
22	OIL STORAGE TANK	TK-4216
23	OIL STORAGE TANK	TK-4217
24	OIL STORAGE TANK	TK-4218
25	OIL STORAGE TANK	TK-4219
26	OIL STORAGE TANK	TK-4220
27	OIL BOOSTER PUMPS	-
28	WATER DRAW-OFF PUMPS	-

NOTES		REFERENCE DRAWINGS		REVISIONS				PROJECT INFO.	
-	DWG. NO.	DESCRIPTION	REV.	DESCRIPTION	DRWN	CHGD	APPRV	DATE	DATE
	CB-0302	PLOT PLAN							03/17/23
			3	REVISED ISSUED FOR CONSTRUCTION - SAULSBURY JOB #11078	JDW	SSR	DV	05/07/24	SAULSBURY JOB NO. 11078
			2-A	ISSUED FOR APPROVAL - SAULSBURY JOB #11159	JDW	SSR	DV	04/26/24	AFEP.O. NO.
			2	REVISED ISSUED FOR CONSTRUCTION - SAULSBURY JOB #11078	JDW	SSR	DV	08/02/23	CLIENT FILE NO.
			1	REVISED ISSUED FOR CONSTRUCTION - SAULSBURY JOB #11078	JDW	SSR	DV	06/26/23	DN-PLCOW-CD-SB-CX-LAY-0303
			0	ISSUED FOR CONSTRUCTION - SAULSBURY JOB #11078	JDW	SSR	DV	05/11/23	SCALE 1"=150'

PLOT PLAN
TANK FARM AREA
COWBOY NATURAL GAS & OIL CDP
EDDY COUNTY, NEW MEXICO
DWG. NO. DN-PLCOW-CD-SB-CX-LAY-0303

Section 6

All Calculations

Show all calculations used to determine both the hourly and annual controlled and uncontrolled emission rates. All calculations shall be performed keeping a minimum of three significant figures. Document the source of each emission factor used (if an emission rate is carried forward and not revised, then a statement to that effect is required). If identical units are being permitted and will be subject to the same operating conditions, submit calculations for only one unit and a note specifying what other units to which the calculations apply. All formulas and calculations used to calculate emissions must be submitted. The "Calculations" tab in the UA2 has been provided to allow calculations to be linked to the emissions tables. Add additional "Calc" tabs as needed. If the UA2 or other spread sheets are used, all calculation spread sheet(s) shall be submitted electronically in Microsoft Excel compatible format so that formulas and input values can be checked. Format all spread sheets and calculations such that the reviewer can follow the logic and verify the input values. Define all variables. If calculation spread sheets are not used, provide the original formulas with defined variables. Additionally, provide subsequent formulas showing the input values for each variable in the formula. All calculations, including those calculations are imbedded in the Calc tab of the UA2 portion of the application, the printed Calc tab(s), should be submitted under this section.

Tank Flashing Calculations: The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., NOI, permit, or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation.

SSM Calculations: It is the applicant's responsibility to provide an estimate of SSM emissions or to provide justification for not doing so. In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Section 2 SSM and/or Section 22 GHG Tables and the rational for why the others are reported as zero (or left blank in the SSM/GHG Tables). Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on calculating SSM emissions. If SSM emissions are greater than those reported in the Section 2, Requested Allowables Table, modeling may be required to ensure compliance with the standards whether the application is NSR or Title V. Refer to the Modeling Section of this application for more guidance on modeling requirements.

Glycol Dehydrator Calculations: The information provided to the AQB shall include the manufacturer's maximum design recirculation rate for the glycol pump. If GRI-Glycalc is used, the full input summary report shall be included as well as a copy of the gas analysis that was used.

Road Calculations: Calculate fugitive particulate emissions and enter haul road fugitives in Tables 2-A, 2-D and 2-E for:

1. If you transport raw material, process material and/or product into or out of or within the facility and have PER emissions greater than 0.5 tpy.
2. If you transport raw material, process material and/or product into or out of the facility more frequently than one round trip per day.

Significant Figures:

- A. All emissions standards are deemed to have at least two significant figures, but not more than three significant figures.
- B. At least 5 significant figures shall be retained in all intermediate calculations.
- C. In calculating emissions to determine compliance with an emission standard, the following rounding off procedures shall be used:

- (1) If the first digit to be discarded is less than the number 5, the last digit retained shall not be changed;
- (2) If the first digit discarded is greater than the number 5, or if it is the number 5 followed by at least one digit other than the number zero, the last figure retained shall be increased by one unit; **and**
- (3) If the first digit discarded is exactly the number 5, followed only by zeros, the last digit retained shall be rounded upward if it is an odd number, but no adjustment shall be made if it is an even number.
- (4) The final result of the calculation shall be expressed in the units of the standard.

Control Devices: In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. The applicant can indicate in this section of the application if they chose to not take credit for the reduction in emission rates. For notices of intent submitted under 20.2.73 NMAC, only uncontrolled emission rates can be considered to determine applicability unless the state or federal Acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and/or if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

Hot Oil Heaters (SHTR1 – SHTR8, CHTR1 – CHTR4, RHTR1 – RHTR4)

The facility is equipped with eight (8) 58.93 Million British Thermal units per hour (MMbtu/hr) burners used for heating units in oil & NGL stabilization, four (4) 94.54 MMBtu/hr burners used for natural gas cryogenic heaters, and four (4) 35.25 MMBtu/hr burners used for mole sieve regeneration. SHTR7, SHTR8, CHTR3, and CHTR4 are to be equipped with SCR catalysts to control NO_x emissions. The heaters generate emissions of nitrogen oxides (NO_x), carbon dioxide (CO), volatile organic compounds (VOC), sulfur dioxide (SO₂), and Particulate Matter (PM). NO_x, CO, and VOC emissions were calculated using manufacturer's guaranteed exhaust concentrations. PM, hazardous air pollutants (HAPs), and SO₂ emissions were calculated using emission factors from AP-42 Section 1.4 for natural gas combustion. AP-42 emission factors were adjusted for the heat content of the fuel gas. Supporting manufacturer documentation is provided in Section 7. A 25% safety factor was applied to the lb/hr emission rates. The high heating value (Btu/scf) of the fuel gas is based on Bryan Research and Engineering's (BR&E) ProMax software simulation using a recent fuel sample analysis (see simulation report in Section 7).

Thermal Oxidizers (TO1 – TO4)

Thermal oxidizers (TO) are used to control vapors from the amine flash vessels and acid gas from the amine still reflux accumulators. Speciated VOC, SO₂ and HAP emissions associated with the flash vessels and still vents were calculated using Promax simulation (see simulation report in Section 7). The ProMax simulation for each amine flash vessel and still vent was designed to simulate emissions at the maximum design gas throughput of 250 Million standard cubic feet per day (MMscfd) per cryo train and maximum design amine recirculation pump rates of 500 standard gallons per minute (sgpm). To be conservative, total HAP emissions were calculated assuming that the total molar concentration of hydrocarbon components that are hexanes or heavier (C6+) is equal to the molar concentration of each individual HAP component. A manufacturer guaranteed destruction efficiency of 99% was used for the TO. Emissions of NO_x and CO from the TOs were calculated using manufacturer's guaranteed exhaust concentrations. PM emissions from TO combustion were calculated using AP-42 Section 1.4. Supporting manufacturer documentation is provided in Section 7.

Flares (FL1 – FL3)

The facility is equipped with three dual-tip flares used to control routine flare streams and startup, shutdown, maintenance (SSM) flare streams. Routine emissions from the flares include pilot, purge, assist gas, and process gas. Process gas includes sweep gas and miscellaneous process vents such as analyzer vents, compressor seals, and pump seals. Flare stream flowrates were based on process knowledge and engineering estimates. Flare stream composition and heat content were based on recent flare stream sample analysis and ProMax simulation (see simulation report in Section 7). NO_x and CO emissions were calculated using emission factors from the Texas Commission on Environmental Quality (TCEQ) publication RG-360A/09. VOC and H₂S emissions were calculated using estimated flaring volumes, stream composition from recent flare gas sample analysis, and the manufacturer's guaranteed destruction efficiency of 98%. Manufacturer documentation provided in Section 7 of the application. SO₂ emissions are based on flare stream total sulfur content of 25 ppmw and assumes 100% of the sulfur is converted to SO₂. PM₁₀ and PM_{2.5} emissions were calculated using emission factors from AP-42 Section 1.4 for natural gas combustion. Emission factors were adjusted for the heat content of the flare streams. A 20% safety factor was added to the lb/hr emission rates from the flares.

SSM streams routed to the flares could include process vessel purging and blowdowns associated with startup, shutdown, and maintenance activities and events. Separate SSM flaring limits have been established for process equipment associated with the oil and NGL stabilization and the natural gas processing cryo trains. A maximum hourly SSM gas rate to any of the dual-tip flares of 500,000 scfh was included in the calculations for the oil and NGL stabilization equipment. A separate maximum hourly SSM gas rate to the any of the dual-tip flares of 2,000,000 scfh was included for cryo train equipment. For permitting purposes, the total SSM rate established for each process area is intended to represent one total limit for all three flares. Flare SSM stream composition and heat content were based on recent flare stream sample analysis and ProMax simulation (see simulation report in Section 7). NO_x and CO emissions were calculated using emission factors from the Texas Commission on Environmental Quality (TCEQ) publication RG-360A/09. VOC and H₂S emissions were calculated using estimated flaring volumes, stream composition from recent flare gas sample analysis, and the manufacturer's guaranteed destruction efficiency of 98%. Manufacturer

documentation provided in Section 7 of the application. SO₂ emissions are based on flare stream total sulfur content of 25 ppmw and assumes 100% of the sulfur is converted to SO₂. PM₁₀ and PM_{2.5} emissions were calculated using emission factors from AP-42 Section 1.4 for natural gas combustion. Emission factors were adjusted for the heat content of the flare streams. A 20% safety factor was added to the lb/hr emission rates from the flares.

Combustors (ECD1 and ECD2)

Enclosed combustors will control flashing, working, and breathing losses from the gunbarrel separator and fixed roof tanks, as well as the displaced vapors from truck loading operations from the slop oil tank. ECD1 will be the primary control for these units, and the portable ECD2 will provide backup control during ECD1 downtimes. The portable unit can range in size in terms of capacity and stack parameters which are provided under Unit IDs ECD2 in the UA2 tables. Emissions of NO_x and CO from the combustors were calculated using manufacturer's guaranteed exhaust concentrations. VOC emissions were calculated using speciated streams determined from recent sample analysis, BR&E ProMax software simulation, and the manufacturer's guaranteed destruction efficiency of 99%. Annual emissions conservatively assume that ECD2 could operate up to 8760 hr/yr. Total emissions represent worst-case emission from ECD1 and ECD2. The combustors will not operate at the same time. A constant pilot gas fuel rate of 180 scfh is included in the emission calculations for the ECD1, and 270 scf/hr is included for ECD2. Supporting manufacturer documentation is provided in Section 7.

Storage Tanks (IFR5 – IFR8, GBS1, SOTK1, PWTK1 – PWTK2)

Standing and withdrawal emissions from the fourteen (14) internal floating roof (IFR) crude oil tanks, as well as flash, working, and breathing emissions from the one gunbarrel separator, one (1) fixed roof slop oil tank, and two (2) fixed roof produced water storage tanks were calculated using speciated streams determined from recent sample analysis, estimated liquid throughput, and BR&E ProMax simulation software. The BR&E ProMax software utilizes current AP-42, Chapter 7, Liquid Storage Tank emission calculation methodology. Emissions from the fixed roof tanks will be controlled by ECD1 or ECD2. The simulation reports' details and summaries are included in Section 7.

Truck Loading (SOTL)

Controlled emissions from slop oil loading of trucks were calculated using Equation 1 of AP-42 Section 5.2. Maximum slop oil loading rates are calculated using 210 BOPD. Relevant portions of AP-42 Section 5.2 are included in Section 7. Slop oil truck loading will be controlled by the combustor (ECD1 or ECD2).

Startup, Shutdown, and Maintenance (SSM/M)

Startup, shutdown, maintenance (SSM) and malfunction (M) emissions not routed to the flare system were quantified at the facility. The SSM/M emissions include blowdowns and degassing from various equipment as identified in the emission calculations. Like-kind SSM/M activities were grouped together. The estimated frequency, volume, MW, and VOC wt% of the vented stream for each SSM/M grouping were used to calculate VOC emissions. Vented volume per event was based on the capacity of equipment, piping, and piping components. Emissions for some like-kind SSM activities were less than 0.5 tpy and are identified as permit exempt sources in the emission calculations and in UA2 Table 2-B.

Haul Road Fugitive Emissions (Exempt pursuant 20.2.72.202.B.(5) NMAC)

Fugitive haul road emissions were calculated using Equations 1a and 2 of AP-42 Section 13.2.2. Relevant portions of AP-42 Section 13.2.2 are included in Section 7.

Emergency Generators (GEN1-GEN4)

Emission factors for NO_x, CO, formaldehyde, and VOC are based on manufacturer's data. Emission rates PM, PM₁₀, and PM_{2.5} were calculated using AP-42 Table 3.2-3 emission factors. PM₁₀ and PM_{2.5} emissions are set equal to PM emissions as a conservative measure. SO₂ emissions were calculated based on the units' fuel consumption and a maximum sulfur content of 0.75 grains per 100 standard cubic feet (0.75 gr/100 scf). Hazardous Air Pollutants (HAPs) except for formaldehyde were calculated using AP-42 factors. Annual operation was assumed to be 100 hours per generator.

Diesel Fire Pumps (FWPE1-2)

Emission factors for NO_x, CO, VOC, and PM are based on manufacturer's data. Emission rates for SO₂ and HAPs were calculated using AP-42 Table 3.3-1 & 2 emission factors. PM₁₀ and PM_{2.5} emissions are set equal to PM emissions as a conservative measure. Annual operation was assumed to be 500 hours per pump.

Piping Component Fugitive Emissions (FUG)

Facility fugitive emissions were calculated using emission factors from the "Protocol for Equipment Leak Emission Estimates" document, conservatively assumed component counts from P&I diagrams of the facility, and representative stream compositions.

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CONTROLLED FACILITY EMISSIONS SUMMARY

EMISSIONS SUMMARY TABLE																	
EMISSION SOURCE DESCRIPTION	FACILITY NUMBER	STACK NUMBER	NOx		CO		VOC (INCLUDES HAPs)		SO ₂		PM		PM ₁₀ / PM _{2.5}		HAPs		CO2e
			lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	TPY
Stabilization Hot Oil Heater (58.93 MMBtu/hr)	SHTR1	SHTR1	1.97	41.35	1.20	25.24	0.47	9.91	0.16	3.42	0.55	11.54	0.55	11.54	0.14	0.81	181,377.53
Stabilization Hot Oil Heater (58.93 MMBtu/hr)	SHTR2	SHTR2	1.97		1.20		0.47		0.16		0.55		0.55		0.14		
Stabilization Hot Oil Heater (58.93 MMBtu/hr)	SHTR3	SHTR3	1.97		1.20		0.47		0.16		0.55		0.55		0.14		
Stabilization Hot Oil Heater (58.93 MMBtu/hr)	SHTR4	SHTR4	1.97		1.20		0.47		0.16		0.55		0.55		0.14		
Stabilization Hot Oil Heater (58.93 MMBtu/hr)	SHTR5	SHTR5	1.97		1.20		0.47		0.16		0.55		0.55		0.14		
Stabilization Hot Oil Heater (58.93 MMBtu/hr)	SHTR6	SHTR6	1.97		1.20		0.47		0.16		0.55		0.55		0.14		
Stabilization Hot Oil Heater w/ SCR catalyst (58.93 MMBtu/hr)	SHTR7	SHTR7	0.49	3.46	1.20	8.41	0.47	3.30	0.16	1.14	0.55	1.10	0.55	1.10	0.14	0.27	60,459.18
Stabilization Hot Oil Heater w/ SCR catalyst (58.93 MMBtu/hr)	SHTR8	SHTR8	0.49		1.20		0.47		0.16		0.55		0.55		0.14		
Cryo Hot Oil Heater (94.54 MMBtu/hr)	CHTR1	CHTR1	3.95	27.66	1.93	13.50	0.76	5.30	0.26	1.83	0.88	6.17	0.88	6.17	0.22	0.44	96,993.22
Cryo Hot Oil Heater (94.54 MMBtu/hr)	CHTR2	CHTR2	3.95		1.93		0.76		0.26		0.88		0.88		0.22		
Cryo Hot Oil Heater w/ SCR Catalyst (94.54 MMBtu/hr)	CHTR3	CHTR3	0.79	5.55	1.93	13.50	0.76	5.30	0.26	1.83	0.88	6.17	0.88	6.17	0.22	0.44	96,993.22
Cryo Hot Oil Heater w/ SCR Catalyst (94.54 MMBtu/hr)	CHTR4	CHTR4	0.79		1.93		0.76		0.26		0.88		0.88		0.22		
Regen Heater (35.25 MMBtu/hr)	RHTR1	RHTR1	1.18	16.49	0.72	10.07	0.28	3.95	0.097	1.36	0.33	4.60	0.33	4.60	0.081	0.32	72,329.41
Regen Heater (35.25 MMBtu/hr)	RHTR2	RHTR2	1.18		0.72		0.28		0.097		0.33		0.33		0.081		
Regen Heater (35.25 MMBtu/hr)	RHTR3	RHTR3	1.18		0.72		0.28		0.097		0.33		0.33		0.081		
Regen Heater (35.25 MMBtu/hr)	RHTR4	RHTR4	1.18		0.72		0.28		0.097		0.33		0.33		0.081		
CDP Flare 1 (Dual Tip Flare)	FL1-FL3 ¹	FL1-FL3 ¹	2.95	10.75	5.88	21.46	2.30	8.38	0.050	0.18	0.16	0.58	0.16	0.58	0.16	0.60	12,101.83
Cryo Flare 2 (Dual Tip Flare)																	
Cryo Flare 3 (Dual Tip Flare)																	

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CONTROLLED FACILITY EMISSIONS SUMMARY

EMISSIONS SUMMARY TABLE																	
EMISSION SOURCE DESCRIPTION	FACILITY NUMBER	STACK NUMBER	NOx		CO		VOC (INCLUDES HAPs)		SO ₂		PM		PM ₁₀ / PM _{2.5}		HAPs		CO2e
			lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	TPY
FL1-FL3 Stabilizer Overhead SSM Gas	FL1-FL3OVHD-SSM	FL1-FL3 ¹	222.82	8.54	444.83	17.06	1,419.77	45.00	4.04	0.15	12.03	0.21	12.03	0.21	73.61	1.79	10,471.71
FL1-FL3 Cryo Blowdown SSM Gas	FL1-FL3CRYO-SSM	FL1-FL3 ¹	405.77	11.43	810.06	22.82	822.57	10.60	6.99	0.19	21.91	0.58	21.91	0.58	13.05	0.17	14,721.62
Oil Storage Tanks 1-4 (Hourly VOC emissions)	IFR1-4	IFR1-4	--	--	--	--	5.05	--	--	--	--	--	--	--	0.24	--	--
Oil Storage Tanks 5-14 (Hourly VOC emissions)	IFR5-14	IFR5-14	--	--	--	--	12.93	--	--	--	--	--	--	--	0.59	--	--
Oil Storage Tanks 1-14 ³ (Annual VOC emissions)	IFR1-14	IFR1-14	--	--	--	--	--	70.48	--	--	--	--	--	--	--	3.66	12.33
Combustor 1	ECD1	ECD1	1.77	7.69	3.04	13.24	4.65	20.23	--	--	0.073	0.12	0.073	0.12	0.15	0.67	6,364.70
Combustor 2 (Backup Unit) ⁴	ECD2	ECD2															
Thermal Oxidizer	TO1	TO1	3.56	15.59	2.17	9.49	0.72	3.24	0.88	3.87	0.19	0.82	0.19	0.82	0.018	0.079	107,200.73
Thermal Oxidizer	TO2	TO2	3.56	15.59	2.17	9.49	0.72	3.24	0.88	3.87	0.19	0.82	0.19	0.82	0.018	0.079	107,200.73
Thermal Oxidizer	TO3	TO3	3.56	15.59	2.17	9.49	0.72	3.24	0.88	3.87	0.19	0.82	0.19	0.82	0.018	0.079	107,200.73
Thermal Oxidizer	TO4	TO4	3.56	15.59	2.17	9.49	0.72	3.24	0.88	3.87	0.19	0.82	0.19	0.82	0.018	0.079	107,200.73
Fugitives	FUG	FUG	--	--	--	--	7.98	34.93	--	--	--	--	--	--	1.39	6.10	3,349.26
Amine Sweetener 1	AU1	TO1	Emissions represented at TO1.														
Amine Sweetener 2	AU2	TO2	Emissions represented at TO2.														
Amine Sweetener 3	AU3	TO3	Emissions represented at TO3.														
Amine Sweetener 4	AU4	TO4	Emissions represented at TO4.														
Gunbarrel Tank	GBS1	ECD1/ECD2	Emissions represented at ECD1														
Produced Water Tank 1	PWTK1	ECD1/ECD2	Emissions represented at ECD1														
Produced Water Tank 2	PWTK2	ECD1/ECD2	Emissions represented at ECD1														
Slop Oil Tank	SOTK1	ECD1/ECD2	Emissions represented at ECD1														
Slop Oil Truck Loading	SOTL	ECD1/ECD2	--	--	--	--	0.69	7.43E-03	--	--	--	--	--	--	0.021	2.23E-04	1.06E-04
Emergency Generator	GEN1	GEN1	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	2.17	0.11	157.09

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CONTROLLED FACILITY EMISSIONS SUMMARY

EMISSIONS SUMMARY TABLE																	
EMISSION SOURCE DESCRIPTION	FACILITY NUMBER	STACK NUMBER	NOx		CO		VOC (INCLUDES HAPs)		SO ₂		PM		PM ₁₀ / PM _{2.5}		HAPs		CO2e
			lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	TPY
Emergency Generator	GEN2	GEN2	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	2.17	0.11	157.09
Emergency Generator	GEN3	GEN3	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	2.17	0.11	157.09
Emergency Generator	GEN4	GEN4	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	2.17	0.11	157.09
Diesel Fire Pump	FWPE1	FWPE1	2.75	0.14	0.37	0.019	0.12	6.042E-03	1.28	0.064	0.093	4.66E-03	0.093	4.66E-03	8.60E-03	4.30E-04	23.93
Diesel Fire Pump	FWPE2	FWPE2	2.75	0.14	0.37	0.019	0.12	6.042E-03	1.28	0.064	0.093	4.66E-03	0.093	4.66E-03	8.60E-03	4.30E-04	23.93
SSM/M IFR Tank and Misc Equipment	SSM/M	SSM/M	--	--	--	--	--	51.33	--	--	--	--	--	--	--	--	--
TOTAL FACILITY EMISSIONS			NOx		CO		VOC (INCLUDES HAPs)		SO ₂		PM		PM ₁₀ / PM ₂₅		HAPs		CO2e
			lb/hr ²	TPY	lb/hr ²	TPY	lb/hr ²	TPY	lb/hr ²	TPY	lb/hr ²	TPY	lb/hr ²	TPY	lb/hr ²	TPY	TPY
			695.22	196.32	1,350.57	207.18	2,307.44	282.72	20.08	28.55	45.14	44.00	45.14	44.00	100.28	16.70	984,653.14
¹ Since FL3 serves as a backup flare, the pilot/purge gas emissions for the flares includes only two flares. The NGL/condensate overheads and cryo SSM stream can be routed to any of the flare; therefore, emissions were combined between the three flares. Since the two SSM events cannot occur simulataneously, the highest of the two stream hourly rates was used in the Total Facility Emissions.																	
² For all pollutants except VOC/HAP, the hourly emission rate excludes overhead SSM stream as they cannot occur at the same time and the cryo SSM stream has a higher emission rate. For VOC, the overhead SSM stream is included with the highest hourly rate. For HAP, the generators have the highest hourly rate.																	
³ Annual VOC emissions are grouped together for IFR1 - IFR14. Worst-case annual withdrawl lossess were calculated by assuming total site throughput for each size group of IFR storage tanks and selecting the higher value to include in the total annual VOC emissions.																	
⁴ ECD2 represents a portable backup combustor that will be used when ECD1 is not in service. XTO seeks authorization to use any portable combustor that is designed to meet the emission limits specified in this permit application.																	

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UNCONTROLLED FACILITY EMISSIONS SUMMARY

UNCONTROLLED EMISSIONS SUMMARY TABLE																													
EMISSION SOURCE DESCRIPTION	FACILITY IDENTIFICATION NUMBER	STACK NUMBER	NOx		CO		VOC (INCLUDES HAPs)		SO ₂		TSP		PM ₁₀		HAPs														
			lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY													
Stabilization Hot Oil Heater (58.93 MMBtu/hr)	SHTR1	SHTR1	1.97	41.35	1.20	25.24	0.47	9.91	0.16	3.42	0.55	11.54	0.55	11.54	0.14	0.81													
Stabilization Hot Oil Heater (58.93 MMBtu/hr)	SHTR2	SHTR2	1.97		1.20		0.47		0.16		0.55		0.55		0.14														
Stabilization Hot Oil Heater (58.93 MMBtu/hr)	SHTR3	SHTR3	1.97		1.20		0.47		0.16		0.55		0.55		0.14														
Stabilization Hot Oil Heater (58.93 MMBtu/hr)	SHTR4	SHTR4	1.97		1.20		0.47		0.16		0.55		0.55		0.14														
Stabilization Hot Oil Heater (58.93 MMBtu/hr)	SHTR5	SHTR5	1.97		1.20		0.47		0.16		0.55		0.55		0.14														
Stabilization Hot Oil Heater (58.93 MMBtu/hr)	SHTR6	SHTR6	1.97		1.20		0.47		0.16		0.55		0.55		0.14														
Stabilization Hot Oil Heater w/ SCR catalyst (58.93 MMBtu/hr)	SHTR7	SHTR7	1.97	13.78	1.20	3.30	0.47	3.30	0.16	1.14	0.55	3.85	0.55	3.85	0.14	0.27													
Stabilization Hot Oil Heater w/ SCR catalyst (58.93 MMBtu/hr)	SHTR8	SHTR8	1.97		1.20		0.47		0.16		0.55		0.55		0.14														
Cryo Hot Oil Heater (94.54 MMBtu/hr)	CHTR1	CHTR1	3.95	27.66	1.93	8.41	0.76	3.30	0.26	1.14	0.88	3.85	0.88	3.85	0.22	0.44													
Cryo Hot Oil Heater (94.54 MMBtu/hr)	CHTR2	CHTR2	3.95		1.93		0.76		0.26		0.88		0.88		0.22														
Cryo Hot Oil Heater w/ SCR Catalyst (94.54 MMBtu/hr)	CHTR3	CHTR3	3.95	27.66	1.93	13.50	0.76	5.30	0.26	1.83	0.88	6.17	0.88	6.17	0.22	0.44													
Cryo Hot Oil Heater w/ SCR Catalyst (94.54 MMBtu/hr)	CHTR4	CHTR4	3.95		1.93		0.76		0.26		0.88		0.88		0.22														
Regen Heater (35.25 MMBtu/hr)	RHTR1	RHTR1	1.18	16.49	0.72	10.07	0.28	3.95	0.097	1.36	0.33	4.60	0.33	4.60	0.081	0.32													
Regen Heater (35.25 MMBtu/hr)	RHTR2	RHTR2	1.18		0.72		0.28		0.097		0.33		0.33		0.081														
Regen Heater (35.25 MMBtu/hr)	RHTR3	RHTR3	1.18		0.72		0.28		0.097		0.33		0.33		0.081														
Regen Heater (35.25 MMBtu/hr)	RHTR4	RHTR4	1.18		0.72		0.28		0.097		0.33		0.33		0.081														
CDP Flare 1 (Dual Tip Flare)	FL1-FL3 ¹	FL1-FL3 ¹	2.95	12.90	5.88	25.75	2.30	10.06	0.050	0.22	0.16	0.70	0.16	0.70	0.16	0.72													
Cryo Flare 2 (Dual Tip Flare)																													
Cryo Flare 3 (Dual Tip Flare)																													
FL1-FL3 Stabilizer Overhead SSM Gas	FL1-FL3OVHD-SSM	FL1-FL3 ¹	Not operating in uncontrolled emissions scenario.																										
FL1-FL3 Cryo Blowdown SSM Gas	FL1-FL3OVHD-SSM	FL1-FL3 ¹	Not operating in uncontrolled emissions scenario.																										
Oil Storage Tanks 1-4 (Hourly VOC emissions)	IFR1-4	IFR1-4	--	--	--	--	5.05	--	--	--	--	--	--	--	0.24	--													

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UNCONTROLLED FACILITY EMISSIONS SUMMARY

UNCONTROLLED EMISSIONS SUMMARY TABLE																
EMISSION SOURCE DESCRIPTION	FACILITY IDENTIFICATION NUMBER	STACK NUMBER	NOx		CO		VOC (INCLUDES HAPs)		SO ₂		TSP		PM ₁₀		HAPs	
			lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Oil Storage Tanks 5-14 (Hourly VOC emissions)	IFR5-14	IFR5-14	--	--	--	--	12.93	--	--	--	--	--	--	--	0.59	--
Oil Storage Tanks 1-14 ³ (Annual VOC emissions)	IFR1-14	IFR1-14	--	--	--	--	--	70.48	--	--	--	--	--	--	--	3.66
Combustor 1	ECD1 ¹	ECD1 ¹	1.77	7.69	3.04	13.24	4.65	20.23	--	--	0.073	0.12	0.073	0.12	0.15	0.67
Combustor 2 (Backup Unit)	ECD2 ³	ECD2 ³														
Thermal Oxidizer	TO1	TO1	0.28	1.22	0.17	0.74	0.30	1.31	--	--	0.15	0.65	0.15	0.65	--	--
Thermal Oxidizer	TO2	TO2	0.28	1.22	0.17	0.74	0.30	1.31	--	--	0.15	0.65	0.15	0.65	--	--
Thermal Oxidizer	TO3	TO3	0.28	1.22	0.17	0.74	0.30	1.31	--	--	0.15	0.65	0.15	0.65	--	--
Thermal Oxidizer	TO4	TO4	0.28	1.22	0.17	0.74	0.30	1.31	--	--	0.15	0.65	0.15	0.65	--	--
Fugitives	FUG	FUG	--	--	--	--	7.98	34.93	--	--	--	--	--	--	--	--
Amine Sweetener 1	AU1	TO1	--	--	--	--	73.92	323.77	--	--	--	--	--	--	1.80	7.87
Amine Sweetener 2	AU2	TO2	--	--	--	--	73.92	323.77	--	--	--	--	--	--	1.80	7.87
Amine Sweetener 3	AU3	TO3	--	--	--	--	73.92	323.77	--	--	--	--	--	--	1.80	7.87
Amine Sweetener 4	AU4	TO4	--	--	--	--	73.92	323.77	--	--	--	--	--	--	1.80	7.87
Gunbarrel Tank	GBS1	ECD1/ECD2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Produced Water Tank 1	PWTK1	ECD1/ECD2	--	--	--	--	1.34	5.86	--	--	--	--	--	--	0.061	0.27
Produced Water Tank 2	PWTK2	ECD1/ECD2	--	--	--	--	1.34	5.86	--	--	--	--	--	--	0.061	0.27
Slop Oil Tank	SOTK1	ECD1/ECD2	--	--	--	--	459.04	2,010.59	--	--	--	--	--	--	15.16	66.41
Slop Oil Truck Loading	SOTL	ECD1/ECD2	--	--	--	--	53.02	0.57	--	--	--	--	--	--	1.59	0.017
Emergency Generator	GEN1	GEN1	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	2.17	0.11
Emergency Generator	GEN2	GEN2	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	2.17	0.11

XTO Energy, Inc.

Cowboy CDP

UNCONTROLLED FACILITY EMISSIONS SUMMARY

UNCONTROLLED EMISSIONS SUMMARY TABLE																
EMISSION SOURCE DESCRIPTION	FACILITY IDENTIFICATION NUMBER	STACK NUMBER	NOx		CO		VOC (INCLUDES HAPs)		SO ₂		TSP		PM ₁₀		HAPs	
			lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Emergency Generator	GEN3	GEN3	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	2.17	0.11
Emergency Generator	GEN4	GEN4	3.80	0.19	14.29	0.71	5.11	0.26	0.044	2.21E-03	0.20	0.010	0.20	0.010	2.17	0.11
Diesel Fire Pump	FWPE1	FWPE1	2.75	0.14	0.37	0.02	0.12	6.042E-03	1.28	0.06	0.09	4.661E-03	0.09	4.661E-03	8.60E-03	4.30E-04
Diesel Fire Pump	FWPE2	FWPE2	2.75	0.14	0.37	0.02	0.12	6.042E-03	1.28	0.06	0.09	4.661E-03	0.09	4.661E-03	8.60E-03	4.30E-04
SSM/M IFR Tank and Misc Equipment	SSM/M	SSM/M	--	--	--	--	--	51.33	--	--	--	--	--	--	--	--
TOTAL FACILITY EMISSIONS			NOx		CO		VOC (INCLUDES HAPs)		SO ₂		TSP		PM10		HAPs	
			lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
			62.77	153.46	87.69	105.39	873.11	3,537.01	5.52	9.24	11.05	33.49	11.05	33.49	36.18	106.19
¹ Only includes pilot/purge gas emissions in uncontrolled scenario																
² Annual VOC emissions are grouped together for IFR1 - IFR14. Worst-case annual withdrawl lossess were calculated by assuming total site throughput for each size group of IFR storage tanks and selecting the higher value to include in the total annual VOC emissions.																
³ ECD2 represents a portable backup combustor that will be used when ECD1 is not in service. XTO seeks authorization to use any portable combustor that is designed to meet the emission limits specified in this permit application.																

XTO Energy, Inc.
Cowboy CDP
COMBUSTOR EMISSIONS SUMMARY - ECD1/ECD2

Combustor Emissions Summary Table												
Stream Source	NOx		CO		Total VOC		SO ₂		PM _{10 & 2.5}		Total HAPs	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
ECD1	1.34	5.85	2.68	11.67	4.65	20.23	0.00	0.00	0.07	0.12	0.15	0.67
ECD2 (Portable Backup) ^a	1.77	7.69	3.04	13.24	4.65	20.23	0.00	0.00	0.07	0.12	0.15	0.67
Total Emissions ^b	1.77	7.69	3.04	13.24	4.65	20.23	0.00	0.00	0.07	0.12	0.15	0.67
Footnotes: ^aECD2 represents a portable backup combustor that would only be used if ECD1 was out of service. Annual emissions conservatively assume that the backup combustor could operate up to 8,760 hrs per year. Two separate portable ECD models are considered for this permit as represented in Table 2A and 2H. ^bTotal emissions represent worst-case emissions from ECD1 or ECD2. The combustors will not operate at the same time.												

XTO ENERGY INC.
Cowboy CDP
COMBUSTOR HOURLY EMISSIONS

COMBUSTOR - HOURLY (EPN: ECD1)

Maximum Hourly Emission Rates and Composition to Combustor ^{a,b}											Criteria Pollutant Emissions from ECD ^b							
Component	Pilot Fuel	Slop Oil Tank (SOTK1)		Gunbarrel (GBS1)	PW Tanks (53-54)		Slop Oil Truck Loading (SOTL)	Total	Destruction Efficiency	Flare Exhaust (controlled)	Component	Emission Rate	Emission Factor	Emission Factor Units				
		W&B Losses	Flashing Losses	Flashing Losses	W&B Losses	Flashing Losses						Rate						
	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(%)	(lb/hr)		(lb/hr)						
Water	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.29	0%	0.29	NO _x	1.34	0.138	lb/MMBtu				
Hydrogen Sulfide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00	CO	2.68	0.2755	lb/MMBtu				
Nitrogen	0.36	0.00	0.04	0.00	0.00	0.00	0.00	0.40	0%	0.40	SO ₂	0.00	--	--				
Carbon Dioxide	0.26	0.00	0.04	0.00	0.00	0.00	0.00	0.31	0%	0.31	PM ₁₀	0.07	7.60	lb/MMscf				
Methane	41.21	0.02	3.57	0.00	0.10	0.00	0.01	44.90	99%	0.45	PM _{2.5}	0.07	7.60	lb/MMscf				
Ethane	1.00	0.33	16.37	0.00	0.53	0.00	0.17	18.40	99%	0.18	H ₂ S	8.58E-05	--	--				
Propane	0.03	2.14	124.64	0.00	1.33	0.00	1.07	129.20	99%	1.29								
Iso-butane	0.03	0.80	51.59	0.00	0.21	0.00	0.40	53.03	99%	0.53	Combustor DRE 99.00 %							
N-butane	0.02	2.05	132.07	0.00	0.75	0.00	1.03	135.93	99%	1.36	Criteria Pollutant Emissions from Pilot Fuel							
Iso-pentane	0.00	0.67	45.83	0.00	0.15	0.00	0.34	46.98	99%	0.47	Component	Emission Rate	Emission Factor	Emission Factor Units				
N-pentane	0.00	0.72	49.91	0.00	0.07	0.00	0.36	51.07	99%	0.51		(lb/hr)						
Cyclopentanes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00	NO _x	0.02	0.138	lb/MMBtu				
Other Hexanes	0.00	0.28	19.76	0.00	0.04	0.00	0.14	20.21	99%	0.20	CO	0.05	0.2755	lb/MMBtu				
n-Hexane	0.00	0.18	12.50	0.00	0.01	0.00	0.09	12.78	99%	0.13	SO ₂	0.00	--	--				
Methylcyclopentane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00	PM ₁₀	0.001	7.60	lb/MMscf				
Benzene	0.00	0.01	0.95	0.00	0.05	0.00	0.00	1.01	99%	0.01	PM _{2.5}	0.001	7.60	lb/MMscf				
Cyclohexane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00	H ₂ S	8.58E-05	--	--				
2,2,4 Trimethylpentane	0.00	0.01	0.63	0.00	0.00	0.00	0.00	0.65	99%	0.01								
Other Heptanes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00								
Methylcyclohexane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00								
n-Heptane	0.00	0.13	10.10	0.00	0.01	0.00	0.07	10.30	99%	0.10								
Toluene	0.00	0.01	0.67	0.00	0.04	0.00	0.00	0.72	99%	0.01								
Octanes	0.00	0.03	2.85	0.00	0.00	0.00	0.02	2.90	99%	0.03								
Ethylbenzene	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03	99%	0.00								
M&P-Xylene	0.00	0.00	0.18	0.00	0.02	0.00	0.00	0.20	99%	0.00								
Nonanes	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.27	99%	0.00								
Decanes	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03	99%	0.00								
Undecanes Plus	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00								
Total	42.91	7.39	472.03	0.00	3.59	0.00	3.70	529.62	--	6.28								
Total VOC	0.08	7.04	452.00	0.00	2.68	0.00	3.52	465.32	--	4.65								
Total HAP	0.00	0.20	14.96	0.00	0.12	0.00	0.10	15.38	--	0.15								
Heating Value (Btu/scf)	913.74	2,814.24	2,842.38	0.00	1,893.47	0.00	2,814.24	2,735.04										
Molecular Weight	16.29	54.21	54.80	0.00	39.33	0.00	54.21	52.69										
SO2 Emissions (lb/hr)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
Volumetric Flow (scf/hr)	180.00	51.71	3,268.81	0.00	34.68	0.00	25.87	3,561.07										
Heat Release (MMBtu/hr)	0.16	0.15	9.29	0.00	0.07	0.00	0.07	9.74										

Footnotes:

^a Uncontrolled stream properties determined via ProMax.

^b Flare CO and NO_x emission factors from TCEQ Air Permit Technical Guidance for Chemical Sources. PM and PM_{2.5} emission factors from AP-42, Table 1.4-1 and 1.4-2, July 1998. SO₂ emissions assume 100% conversion of H₂S to SO₂.

XTO Energy, Inc.
Cowboy CDP
COMBUSTOR ANNUAL EMISSIONS

COMBUSTOR - ANNUAL (EPN: ECD1)

Annual Emission Rates and Composition to Combustor ^{a,b}										
Component	Pilot Fuel ^c (ton/yr)	Slop Oil Tank (SOTK1)		Gunbarrel (GBS1)	PW Tanks (53-54)		Slop Oil Truck Loading (SOTL) (ton/yr)	Total (ton/yr)	Destruction Efficiency (%)	Exhaust Stream (controlled) (ton/yr)
		W&B Losses	Flashing Losses	Flashing Losses	W&B Losses	Flashing Losses				
		(ton/yr)	(ton/yr)	(ton/yr)	(ton/yr)	(ton/yr)				
Water	0.00	0.00	0.00	0.00	1.25	0.00	0.00	1.25	0%	1.25
Hydrogen Sulfide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Nitrogen	1.56	0.00	0.20	0.00	0.01	0.00	0.00	1.77	99%	0.02
Carbon Dioxide	1.16	0.00	0.18	0.00	0.00	0.00	0.00	1.35	0%	1.35
Methane	180.50	0.07	15.65	0.00	0.43	0.00	0.00	196.65	99%	1.97
Ethane	4.38	1.46	71.68	0.00	2.33	0.00	0.02	79.88	99%	0.80
Propane	0.13	9.37	545.90	0.00	5.81	0.00	0.19	561.41	99%	5.61
Iso-butane	0.12	3.51	225.98	0.00	0.90	0.00	0.06	230.57	99%	2.31
N-butane	0.11	9.00	578.49	0.00	3.27	0.00	0.15	591.02	99%	5.91
Iso-pentane	0.00	2.94	200.72	0.00	0.64	0.00	0.04	204.35	99%	2.04
N-pentane	0.00	3.17	218.61	0.00	0.32	0.00	0.05	222.16	99%	2.22
Cyclopentanes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Other Hexanes	0.00	1.22	86.54	0.00	0.16	0.00	0.02	87.94	99%	0.88
n-Hexane	0.00	0.78	54.74	0.00	0.06	0.00	0.01	55.58	99%	0.56
Methylcyclopentane	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	99%	0.00
Benzene	0.00	0.04	4.17	0.00	0.20	0.00	0.00	4.41	99%	0.04
Cyclohexane	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	99%	0.00
2,2,4 Trimethylpentane	0.00	0.04	2.77	0.00	0.01	0.00	0.00	2.81	99%	0.03
Other Heptanes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Methylcyclohexane	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	99%	0.00
n-Heptane	0.00	0.57	44.22	0.00	0.06	0.00	0.00	44.85	99%	0.45
Toluene	0.00	0.03	2.94	0.00	0.19	0.00	0.00	3.16	99%	0.03
Octanes	0.00	0.14	12.49	0.00	0.01	0.00	0.00	12.64	99%	0.13
Ethylbenzene	0.00	0.00	0.13	0.00	0.01	0.00	0.00	0.15	99%	0.00
M&P-Xylene	0.00	0.01	0.78	0.00	0.07	0.00	0.00	0.85	99%	0.01
Nonanes	0.00	0.01	1.17	0.00	0.00	0.00	0.00	1.18	99%	0.01
Decanes	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.12	99%	0.00
Undecanes Plus	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Total	187.96	32.36	2067.48	0.00	15.74	0.00	0.59	2304.13	--	25.61
Total VOC	0.36	30.82	1979.77	0.00	11.72	0.00	0.56	2023.24	--	20.23
Total HAP	0.00	0.88	65.53	0.00	0.53	0.00	0.02	66.96	--	0.67
Net Heating Value (Btu/scf)	913.74	2,814.24	2,842.38	0.00	1,893.47	0.00	2,814.24	2734.49		
Molecular Weight	16.29	54.21	54.80	0.00	39.33	0.00	54.21	52.68		
SO2 Emissions (tpy)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Volumetric Flow (scf/yr)	1,576,800.00	452,971.48	28,634,815.83	0.00	303,816.42	0.00	11,175.11	30,979,578.83		
Heat Release (MMBtu/yr)	1,440.78	1,274.77	81,391.06	0.00	575.27	0.00	31.45	84,713.33		

Criteria Pollutant Emissions from ECD ^b			
Component	Emission Rate (ton/yr)	Emission Factor	Emission Factor Units
NO _x	5.85	0.14	lb/MMBtu
CO	11.67	0.28	lb/MMBtu
SO ₂	0.00	--	--
PM ₁₀	0.12	7.60	lb/MMscf
PM _{2.5}	0.12	7.60	lb/MMscf
H ₂ S	0.00	--	--

Combustor DRE	99.00	%
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Footnotes:

^a Uncontrolled stream properties determined via ProMax.

^b Flare CO and NO_x emission factors from TCEQ Air Permit Technical Guidance for Chemical Sources. PM and PM_{2.5} emission factors from AP-42, Table 1.4-1 and 1.4-2, July 1998. SO₂ emissions assume 100% conversion of H₂S to SO₂.

XTO ENERGY INC.
Cowboy CDP
COMBUSTOR HOURLY EMISSIONS

COMBUSTOR - HOURLY (EPN: ECD2)

Maximum Hourly Emission Rates and Composition to Combustor ^{a,b}										
Component	Pilot Fuel	Slop Oil Tank (SOTK1)		Gunbarrel (GBS1)	PW Tanks (53-54)		Slop Oil Truck Loading (SOTL)	Total	Destruction Efficiency	Flare Exhaust (controlled)
		W&B Losses	Flashing Losses	Flashing Losses	W&B Losses	Flashing Losses				
	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(%)	(lb/hr)
Water	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.29	0%	0.29
Hydrogen Sulfide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Nitrogen	0.36	0.00	0.04	0.00	0.00	0.00	0.00	0.40	0%	0.40
Carbon Dioxide	0.26	0.00	0.04	0.00	0.00	0.00	0.00	0.31	0%	0.31
Methane	41.21	0.02	3.57	0.00	0.10	0.00	0.01	44.90	99%	0.45
Ethane	1.00	0.33	16.37	0.00	0.53	0.00	0.17	18.40	99%	0.18
Propane	0.03	2.14	124.64	0.00	1.33	0.00	1.07	129.20	99%	1.29
Iso-butane	0.03	0.80	51.59	0.00	0.21	0.00	0.40	53.03	99%	0.53
N-butane	0.02	2.05	132.07	0.00	0.75	0.00	1.03	135.93	99%	1.36
Iso-pentane	0.00	0.67	45.83	0.00	0.15	0.00	0.34	46.98	99%	0.47
N-pentane	0.00	0.72	49.91	0.00	0.07	0.00	0.36	51.07	99%	0.51
Cyclopentanes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Other Hexanes	0.00	0.28	19.76	0.00	0.04	0.00	0.14	20.21	99%	0.20
n-Hexane	0.00	0.18	12.50	0.00	0.01	0.00	0.09	12.78	99%	0.13
Methylcyclopentane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Benzene	0.00	0.01	0.95	0.00	0.05	0.00	0.00	1.01	99%	0.01
Cyclohexane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
2,2,4 Trimethylpentane	0.00	0.01	0.63	0.00	0.00	0.00	0.00	0.65	99%	0.01
Other Heptanes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Methylcyclohexane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
n-Heptane	0.00	0.13	10.10	0.00	0.01	0.00	0.07	10.30	99%	0.10
Toluene	0.00	0.01	0.67	0.00	0.04	0.00	0.00	0.72	99%	0.01
Octanes	0.00	0.03	2.85	0.00	0.00	0.00	0.02	2.90	99%	0.03
Ethylbenzene	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03	99%	0.00
M&P-Xylene	0.00	0.00	0.18	0.00	0.02	0.00	0.00	0.20	99%	0.00
Nonanes	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.27	99%	0.00
Decanes	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03	99%	0.00
Undecanes Plus	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Total	42.91	7.39	472.03	0.00	3.59	0.00	3.70	529.62	--	6.28
Total VOC	0.08	7.04	452.00	0.00	2.68	0.00	3.52	465.32	--	4.65
Total HAP	0.00	0.20	14.96	0.00	0.12	0.00	0.10	15.38	--	0.15
Heating Value (Btu/scf)	914	2,814	2,842	0.00	1,893	0.00	2,814	2,690		
Molecular Weight	16.29	54.21	54.80	0.00	39.33	0.00	54.21	51.79		
SO2 Emissions (lb/hr)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
Volumetric Flow (scf/hr)	270	52	3,269	0.00	35	0.00	26	3,651		
Heat Release (MMBtu/hr)	0.25	0.15	9.29	0.00	0.07	0.00	0.07	9.82		

Criteria Pollutant Emissions from ECD ^b			
Component	Emission Rate	Emission Factor	Emission Factor Units
	(lb/hr)		
NO _x	1.77	0.18	lb/MMBtu
CO	3.04	0.31	lb/MMBtu
SO ₂	0.00	--	--
PM ₁₀	0.07	7.60	lb/MMscf
PM _{2.5}	0.07	7.60	lb/MMscf
H ₂ S	0.00	--	--

Combustor DRE	99.00	%
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Criteria Pollutant Emissions from Pilot Fuel			
Component	Emission Rate	Emission Factor	Emission Factor Units
	(lb/hr)		
NO _x	0.04	0.18	lb/MMBtu
CO	0.07	0.2755	lb/MMBtu
SO ₂	0.00	--	--
PM ₁₀	0.002	7.60	lb/MMscf
PM _{2.5}	0.002	7.60	lb/MMscf
H ₂ S	0.00	--	--

Footnotes:

^a Uncontrolled stream properties determined via ProMax.

^b Flare CO and NO_x emission factors from TCEQ Air Permit Technical Guidance for Chemical Sources. PM and PM_{2.5} emission factors from AP-42, Table 1.4-1 and 1.4-2, July 1998. SO₂ emissions assume 100% conversion of H₂S to SO₂.

XTO Energy, Inc.
Cowboy CDP
COMBUSTOR ANNUAL EMISSIONS

COMBUSTOR - ANNUAL (EPN: ECD2)

Annual Emission Rates and Composition to Combustor ^{a,b}										
Component	Pilot Fuel ^c	Slop Oil Tank (SOTK1)		Gunbarrel (GBS1)	PW Tanks (53-54)		Slop Oil Truck Loading (SOTL)	Total	Destruction Efficiency	Exhaust Stream (controlled)
		W&B Losses	Flashing Losses	Flashing Losses	W&B Losses	Flashing Losses				
		(ton/yr)	(ton/yr)	(ton/yr)	(ton/yr)	(ton/yr)				
Water	0.00	0.00	0.00	0.00	1.25	0.00	0.00	1.25	0%	1.25
Hydrogen Sulfide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Nitrogen	1.56	0.00	0.20	0.00	0.01	0.00	0.00	1.77	99%	0.02
Carbon Dioxide	1.16	0.00	0.18	0.00	0.00	0.00	0.00	1.35	0%	1.35
Methane	180.50	0.07	15.65	0.00	0.43	0.00	0.00	196.65	99%	1.97
Ethane	4.38	1.46	71.68	0.00	2.33	0.00	0.02	79.88	99%	0.80
Propane	0.13	9.37	545.90	0.00	5.81	0.00	0.19	561.41	99%	5.61
Iso-butane	0.12	3.51	225.98	0.00	0.90	0.00	0.06	230.57	99%	2.31
N-butane	0.11	9.00	578.49	0.00	3.27	0.00	0.15	591.02	99%	5.91
Iso-pentane	0.00	2.94	200.72	0.00	0.64	0.00	0.04	204.35	99%	2.04
N-pentane	0.00	3.17	218.61	0.00	0.32	0.00	0.05	222.16	99%	2.22
Cyclopentanes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Other Hexanes	0.00	1.22	86.54	0.00	0.16	0.00	0.02	87.94	99%	0.88
n-Hexane	0.00	0.78	54.74	0.00	0.06	0.00	0.01	55.58	99%	0.56
Methylcyclopentane	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	99%	0.00
Benzene	0.00	0.04	4.17	0.00	0.20	0.00	0.00	4.41	99%	0.04
Cyclohexane	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	99%	0.00
2,2,4 Trimethylpentane	0.00	0.04	2.77	0.00	0.01	0.00	0.00	2.81	99%	0.03
Other Heptanes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Methylcyclohexane	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	99%	0.00
n-Heptane	0.00	0.57	44.22	0.00	0.06	0.00	0.00	44.85	99%	0.45
Toluene	0.00	0.03	2.94	0.00	0.19	0.00	0.00	3.16	99%	0.03
Octanes	0.00	0.14	12.49	0.00	0.01	0.00	0.00	12.64	99%	0.13
Ethylbenzene	0.00	0.00	0.13	0.00	0.01	0.00	0.00	0.15	99%	0.00
M&P-Xylene	0.00	0.01	0.78	0.00	0.07	0.00	0.00	0.85	99%	0.01
Nonanes	0.00	0.01	1.17	0.00	0.00	0.00	0.00	1.18	99%	0.01
Decanes	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.12	99%	0.00
Undecanes Plus	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99%	0.00
Total	187.96	32.36	2067.48	0.00	15.74	0.00	0.59	2304.13	--	25.61
Total VOC	0.36	30.82	1979.77	0.00	11.72	0.00	0.56	2023.24	--	20.23
Total HAP	0.00	0.88	65.53	0.00	0.53	0.00	0.02	66.96	--	0.67
Net Heating Value (Btu/scf)	914	2,814	2,842	0.00	1,893	0.00	2,814	2,689		
Molecular Weight	16.29	54.21	54.80	0.00	39.33	0.00	54.21	51.77		
SO2 Emissions (tpy)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Volumetric Flow (scf/yr)	2,365,200	452,971	28,634,816	0.00	303,816	0.00	11,175	31,767,979		
Heat Release (MMBtu/yr)	2,161	1,275	81,391	0.00	575	0.00	31	85,434		

Criteria Pollutant Emissions from ECD ^b			
Component	Emission Rate	Emission Factor	Emission Factor Units
	(ton/yr)		
NO _x	7.69	0.18	lb/MMBtu
CO	13.24	0.31	lb/MMBtu
SO ₂	0.00	--	--
PM ₁₀	0.12	7.60	lb/MMscf
PM _{2.5}	0.12	7.60	lb/MMscf
H ₂ S	0.00	--	--
Combustor DRE		99.00	%

Footnotes:

^a Uncontrolled stream properties determined via ProMax.

^b Flare CO and NO_x emission factors from TCEQ Air Permit Technical Guidance for Chemical Sources. PM and PM_{2.5} emission factors from AP-42, Table 1.4-1 and 1.4-2, July 1998. SO₂ emissions assume 100% conversion of H₂S to SO₂.

XTO Energy, Inc.

Cowboy CDP

COMBUSTOR (ECD1/ECD2) GHG EMISSIONS SUMMARY

Combustor Emissions Summary Table

1) $E_{s,CH4} = V_s * X_{CH4} * [(1 - \eta) * Z_L + Z_U]$ = 28,318.69 SCF/Yr

$V_s = 30,979,578.83$ SCF/Yr

$X_{CH4} = 0.0914$

$\eta = 0.99$

$Z_L = 1.00$

$Z_U = 0.00$

2) $E_{s,CO2} (uncombusted) = V_s * X_{CO2}$ = 19,381.19 SCF/Yr

$V_s = 30,979,578.83$

$X_{CO2} = 0.000626$

3) $E_{a,CO2} (uncombusted) = V_a * X_{CO2}$

$N = 0.99$

$V_a = 30,979,578.83$

$Y_j =$ Methane 0.09141 1 $E_{a,CO2} = 2803550.73$

Ethane 0.03713 2 2277694.29

Propane 0.26097 3 24011738.77

Butane 0.38191 4 46852532.98

Pentane + 0.29761 5 45637917.95

$Z_L = 1.0000$ 121583434.73 SCF/Yr

3) $E_{s,n} = \frac{E_{a,n} * (459.67 + T_s) * P_a}{(459.67 + T_a) * P_s}$

$E_{a,n}(CH4) = 28,318.69$ = 25,492.69 SCF/Yr

$E_{a,n}(CO2) = 121,602,815.92$ = 109,467,700.62 SCF/Yr

$E_{a,n}(N2O) = 30,979,578.83$ = 27,888,032.32 SCF/Yr

$T_s = 60^{\circ} F$

$T_a = 93.7^{\circ} F$ Roswell, AP-42

$P_s = 13.2800$

$P_a = 12.7300$ Roswell, AP-42

4) $Mass_{s,i} = E_{s,i} * \rho_i * 10^3$ =

$Es,i (CH4) = 25492.6855$

$Es,i (CO2) = 109467700.6160$

$Es,i (N2O) = 161596.9582$

$pi (CH4) = 0.0192$ kg/ft3 = 0.49 metric tons

$pi (CO2) = 0.0526$ kg/ft3 = 5,758.00 metric tons

$pi (N2O) = 0.0526$ kg/ft3 = 0.01 metric tons

5) $CO_2e = CO_2 + (CH_4 * GWP)$ short tons CO_2e

$CO2 = 5758.0011$ = 6347.11 6,347.11

$CH4 = 0.4895$ = 0.54 15.11

$N2O = 0.01$ = 0.01 2.48

$CH4 GWP = 28.0$ 6,364.70

$N2O GWP = 265.0$

Source	Annual Volume
ECD1/ECD2	30,979,579

SCF/Yr

Section 10

Written Description of the Routine Operations of the Facility

A written description of the routine operations of the facility. Include a description of how each piece of equipment will be operated, how controls will be used, and the fate of both the products and waste generated. For modifications and/or revisions, explain how the changes will affect the existing process. In a separate paragraph describe the major process bottlenecks that limit production. The purpose of this description is to provide sufficient information about plant operations for the permit writer to determine appropriate emission sources.

The Cowboy Central Delivery Point (CDP) is a gas processing facility with oil and NGL stabilization. The facility produces residue sales gas, Y-Grade NGL, and spec oil products. The Cowboy CDP is being built over multiple phases to reach a full processing capacity of 1.0 BCFD of Natural Gas Treatment, 600,000 BPD of Oil Stabilization and 190,000 BPD of NGL Stabilization. The overall facility will be designed to accommodate four (4) cryogenic (cryo) trains.

Natural Gas System

The Cowboy CDP gas handling system is fed by field gathering lines, delivering up to 1.6 BCFD natural gas and condensate to the facility at high pressure. At the inlet of the facility, these pipelines are routed into the slug catcher where liquid condensate is separated and routed to the NGL stabilizers to produce Y-Grade NGL product. Up to 1.0 BCFD of gas from the slug catcher will feed the four (4) cryo trains. The remaining rich gas will be routed to offsite 3rd party gas processors. Each cryo train will have a dedicated amine unit (AU1-AU4) to remove carbon dioxide (CO₂) using MDEA with piperizine additive followed by a molecular sieve dehydration unit to remove moisture. In the amine regeneration unit for each cryo train, the flash gas from the amine flash vessel and acid gas from the amine still overheads will be routed to a thermal oxidizer (TO1-TO4) to destroy hazardous air pollutants (HAPs) and volatile organic compounds (VOCs). In the dehydration unit for each cryo train, molecular sieve beds are used to dehydrate the sweetened gas via adsorption. In this three-bed design, part of the unit operates in dehydration mode while the other part operates in regeneration mode. Switching from dehydration mode to regeneration mode and vice versa is done using automatic switching valves on a timed sequence. As one bed in the dehydration unit becomes saturated with water, it is automatically switched to regeneration mode while the bed in the regeneration unit is switched to become active in dehydration mode. When a bed requires regeneration due to being saturated with water, a fired regeneration gas heater (RHTR1-RHTR4) with a maximum heat input rate of 35.25 MMBtu/hr will be used to remove adsorbed water from the molecular sieve beds via temperature swing adsorption. Following dehydration, the dried gas is cooled and expanded in the cryo units to condense and separate NGLs out of the raw gas stream. Utility hot oil systems with gas-fired auxiliary heaters are used to provide the required heat to the distillation processes in the cryogenic units. The remaining residue gas is then boosted by electric-drive residue compressors into the sales gas pipeline.

NGL System

Natural Gas Liquids (NGLs) are condensed, gathered, and pumped at surrounding field compressor stations to be delivered via pipelines into the Cowboy CDP. The NGLs in these liquid pipelines are then combined with the condensate dropout from the slug catcher and other miscellaneous streams within the facility to make a combined feed for the condensate stabilization system. The condensate stabilization system consists of two fractionation towers per train and produces a "Y-Grade" NGL and a 9 psia RVP spec oil. From the first tower, the overhead gas is compressed using electric-drive compressors and sent into the cryo trains, whereas the liquids are sent into the second tower to produce Y-Grade NGL and stabilized oil. The Y-Grade NGL from the second tower is combined with a similar product from the parallel condensate stabilization trains. Then, it is stored temporarily in pressurized bullets before being pumped to the NGL sales pipelines. Any uncondensed gas from the second tower is recycled back to the surrounding field compressor stations. Note that the NGLs from the cryo trains are also pumped, cooled, and exported via the same pipelines. The stabilized oil from the second tower is combined with a similar product from the parallel condensate stabilization trains before being blended with on-spec oil from the oil stabilization system. This occurs upstream of the internal floating roof oil storage tanks (IFR1-IFR14), where the blended product is stored temporarily, before being pumped to the oil sales pipeline. Heat for the condensate stabilization system will be provided by a subset of up to eight (8) heaters, each with a maximum heat input rate of 58.93 MMBtu/hr (SHTR1-SHTR8).

Oil System

Oil from surrounding field tank batteries is heated up before being routed to the oil inlet surge vessels, which provide the bulk phase separation of gas, oil, and produced water. Gas flashing in the oil inlet surge vessels is gathered and compressed by electric-drive compressors, referred to as vapor recovery units (VRUs). Any gas in the final discharge stage of the VRUs is recycled back to the surrounding field compressor stations. Liquids that condense out of the flash gas as it is compressed by the VRUs are pumped and mixed into the combined feed for the condensate stabilization system. Produced water removed by the oil inlet surge vessels is routed through a 1,000 bbl gunbarrel separator (GBS1). From the GBS1, skimmed oil is routed to the 500 bbl slop oil tank (OTK7), and the heavier water phase is routed to two 750 bbl produced water tanks (PWTk1-PWTk2). All these tanks are gas blanketed. Slop oil is trucked offsite or blended with the stabilized oil product, if within spec. Produced water is pumped and transported offsite via pipeline.

Oil received at the inlet of Cowboy CDP is typically sent from the inlet surge vessel through inlet pumps and into the oil stabilization system. In the base facility design, a portion of the oil may bypass the oil stabilization system, if within spec. Within the stabilization system, heat is added to drive lighter components out of the stabilized oil via distillation. Following stabilization, the stabilized oil is blended with the bypass to create an on-spec oil product that is then sent to IFR1-IFR14 for temporary storage before transporting the oil offsite via pipeline. Flash gas from oil stabilization system is recompressed by electric-drive compressors. The majority of the flash gas condenses back into liquid and is mixed into the combined feed for the condensate stabilization system. Heat for the oil stabilization system will be provided by a subset of up to eight (8) heaters, each with a maximum heat input rate of 58.93 MMBtu/hr (SHTR1-SHTR8).

Hot Oil System

Natural gas direct-fired heaters are used to supply heat input into multiple closed-loop utility hot oil systems. These hot oil systems are used to provide the required heat to the oil and NGL stabilization packages, as well as the amine and cryo units. The systems consist of fired heaters, expansion vessels, circulation pumps, and filters. All oil stabilization packages are served by a common hot oil loop operating with a supply temperature of up to approximately 400°F. By comparison, all NGL stabilization packages are served by a common hot oil loop operating with a supply temperature of up to approximately 500°F. The heat input to each oil/NGL stabilizer hot oil loop is provided by 58.93 MMBtu/hr burner hot oil heaters (SHTR1-SHTR8), which can be set to run at either temperature. Each of the amine/cryo trains have their own dedicated hot oil loop served by a 94.54 MMBtu/hr burner hot oil heater (CHTR1-CHTR4) and pump skid with an expansion vessel.

Flare System

All automated vents and most process reliefs are routed to either the low-pressure headers or high-pressure flare headers for the site's flare system, which consists of three dual-tip flares (FL1-FL3). The flares are permitted to manage pilot, purge, sweep, process vent, and SSM gas. Any gas that would be removed from the process during an emergency event would also be routed to FL1-FL3. The flares are permitted such that gas may be routed to one or all the flares at any given time.

Combustor

An enclosed combustor (ECD1) is used to collect and dispose of vapors emitted from GBS1, SOTK1, PWTk1-PWTk2, and SOTL. A portable backup enclosed combustor may be used if the existing combustor is out of service. Two different portable ECD models (ECD2) are considered for this facility. The primary and backup combustors will not operate at the same time.

Emergency Generators

The emergency generators for Cowboy CDP (GEN1-GEN4) will be used to power safety-sensitive equipment in the event of grid power outages.

Fire Pump Engines

The fire pump engines for Cowboy CDP (FWPE1-2) will be used to drive water for emergency fire protection equipment .

Section 13

Determination of State & Federal Air Quality Regulations

This section lists each state and federal air quality regulation that may apply to your facility and/or equipment that are stationary sources of regulated air pollutants.

Not all state and federal air quality regulations are included in this list. Go to the Code of Federal Regulations (CFR) or to the Air Quality Bureau's regulation page to see the full set of air quality regulations.

Required Information for Specific Equipment:

For regulations that apply to specific source types, in the 'Justification' column **provide any information needed to determine if the regulation does or does not apply. For example**, to determine if emissions standards at 40 CFR 60, Subpart IIII apply to your three identical stationary engines, we need to know the construction date as defined in that regulation; the manufacturer date; the date of reconstruction or modification, if any; if they are or are not fire pump engines; if they are or are not emergency engines as defined in that regulation; their site ratings; and the cylinder displacement.

Required Information for Regulations that Apply to the Entire Facility:

See instructions in the 'Justification' column for the information that is needed to determine if an 'Entire Facility' type of regulation applies (e.g. 20.2.70 or 20.2.73 NMAC).

Regulatory Citations for Regulations That Do Not, but Could Apply:

If there is a state or federal air quality regulation that does not apply, but you have a piece of equipment in a source category for which a regulation has been promulgated, you must **provide the low level regulatory citation showing why your piece of equipment is not subject to or exempt from the regulation. For example** if you have a stationary internal combustion engine that is not subject to 40 CFR 63, Subpart ZZZZ because it is an existing 2 stroke lean burn stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, your citation would be 40 CFR 63.6590(b)(3)(i). **We don't want a discussion of every non-applicable regulation, but if it is possible a regulation could apply, explain why it does not. For example**, if your facility is a power plant, you do not need to include a citation to show that 40 CFR 60, Subpart OOO does not apply to your non-existent rock crusher.

Regulatory Citations for Emission Standards:

For each unit that is subject to an emission standard in a source specific regulation, such as 40 CFR 60, Subpart OOO or 40 CFR 63, Subpart HH, include the low level regulatory citation of that emission standard. Emission standards can be numerical emission limits, work practice standards, or other requirements such as maintenance. **Here are examples:** a glycol dehydrator is subject to the general standards at 63.764C(1)(i) through (iii); an engine is subject to 63.6601, Tables 2a and 2b; a crusher is subject to 60.672(b), Table 3 and all transfer points are subject to 60.672(e)(1)

Federally Enforceable Conditions:

All federal regulations are federally enforceable. All Air Quality Bureau State regulations are federally enforceable except for the following: affirmative defense portions at 20.2.7.6.B, 20.2.7.110(B)(15), 20.2.7.11 through 20.2.7.113, 20.2.7.115, and 20.2.7.116; 20.2.37; 20.2.42; 20.2.43; 20.2.62; 20.2.63; 20.2.86; 20.2.89; and 20.2.90 NMAC. Federally enforceable means that EPA can enforce the regulation as well as the Air Quality Bureau and federally enforceable regulations can count toward determining a facility's potential to emit (PTE) for the Title V, PSD, and nonattainment permit regulations.

INCLUDE ANY OTHER INFORMATION NEEDED TO COMPLETE AN APPLICABILITY DETERMINATION OR THAT IS RELEVANT TO YOUR FACILITY'S NOTICE OF INTENT OR PERMIT.

EPA Applicability Determination Index for 40 CFR 60, 61, 63, etc: <http://cfpub.epa.gov/adi/>

Table for State Regulations:

<u>State Regulation Citation</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.1 NMAC	General Provisions	Yes	Facility	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide. This facility is an affected facility.
20.2.7 NMAC	Excess Emissions	Yes	Facility	The entire facility is subject to emissions limits both federal and state regulation. Thus, the facility is subject to this regulation.
20.2.23 NMAC	Fugitive Dust Control	No	N/A	This regulation does not apply as the facility has no need for fugitive dust control measures. This facility does not fall under the applicability facility listed mentioned in this regulation.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No	N/A	None of the equipment has a heat input greater than 1,000,000 million BTU per year per unit. Thus, the regulation is not applicable to this facility.
20.2.34 NMAC	Oil Burning Equipment: NO ₂	No	N/A	This facility does not have any equipment that burns oil as fuel. Therefore, this regulation is not applicable to this facility.
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	No	N/A	SO ₂ emission of this facility is below the applicable threshold limit established in this regulation. Thus, this regulation is not applicable to this facility.
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	No	N/A	These regulations were repealed by the Environmental Improvement Board. If you had equipment subject to 20.2.37 NMAC before the repeal, your combustion emission sources are now subject to 20.2.61 NMAC.
20.2.38 NMAC	Hydrocarbon Storage Facility	Yes	IFR1-14, SOTK1, GBS1, PWTK1, PWTK2	Hydrocarbon storage capacity of this facility is greater than the threshold 65,000 gal. Therefore, this facility is subject to this regulation.
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	No	N/A	This is a central distribution point (CDP) facility. The regulation is not applicable to this facility.
20.2.50 NMAC	Oil and Gas Sector – Ozone Precursor Pollutants	Yes	GEN1-4, EOOSCO MP 1-7, ECOSCO MP 1-7, ERESCOMP 1-10, ECD1, ECD2, FUG, SOTK, SHTR1-8, CHTR1-4, and RHTR1-4	This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen (NOx) for oil and gas production, processing, compression, and transmission sources. 20.2.50 NMAC subparts below: 113 – The emergency generator engines (GEN1-4) will comply with the emission standards of this subpart in accordance with the dates specified in 20.2.50.113.B. Alternatively, the units will meet the emission standard exemption in 20.2.50.113(B)(9) by operating the units as emergency use engines as defined in 40 CFR 60.4211, §60.4243 or §63.6675. 114 – The electric-powered reciprocating compressors (EOOSCOMP 1-7, ECOSCOMP 1-7, and ERESCOMP 1-10) will comply with the applicable requirements of this subpart as stated in the 20.2.50.114.B(2). The electric-powered centrifugal compressors (ERESCOMP 11-14) are equipped with dry seals; therefore, the requirements of this subpart do not apply. 115 – The Combustor 1 and Combustor 2 (ECD1 and ECD2) are used to comply with the emission control requirements for the slop oil tank (SOTK); therefore, they will comply with the applicable requirements of this rule. The other control devices and closed vent systems at this facility are not used to comply with the

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
				requirements of this rule; therefore, the facility is not subject to the requirements of this rule. 116 – The equipment fugitive emission components (FUG) will comply with the applicable requirements of this regulation. 117 – The facility is not a natural gas well; therefore, it is not subject to this rule. 118 – There are no glycol dehydrators at this facility. Thus, this regulation is not applicable to the facility. 119 – The heaters (SHTR1-8, CHTR1-4, and RHTR1-4) have maximum capacity greater than 20 MMBtu/hr and will comply with the applicable requirements of this subpart. 120 – Oil from SOTK1 is not routinely transferred via truck (Unit SOTL), but instead is routinely transferred to the Crude Storage and on to the oil sales pipeline. As such, SOTL is not be subject to 20.2.50.120 per 20.2.50.120.A.(1). 121 – Individual pipeline pig launcher and receiver operations within the property boundary have a PTE less than one tpy VOC. Therefore, this facility is not subject to this subpart. 122 – This facility uses compressed-gas pneumatic controllers. There is no drive gas emission at this facility. Thus, the regulation does not apply to this facility. 123 – The slop oil tank (SOTK) has a VOC PTE greater than 3 tpy; therefore, it will comply with the applicable requirements of this subpart. The produced water tanks (PWTK1-2) have a VOC PTE less than 3 tpy; therefore, they are not subject to the requirements of this subpart. The oil storage tanks (IFR1-14) are internal floating roof tanks that are subject to 40 CFR 60, Subpart Kb or Kc. Therefore, these tanks are not considered “storage vessels” per 20.2.50.007.S.(6) and; therefore, they are not subject to this rule. 124 – The facility is not a well workover; therefore, it is not subject to this rule. 126 – This facility does not contain a produced water management unit; therefore, it is not subject to this rule. 127 – The facility is not a flowback vessel or a preproduction operation; therefore, it is not subject to this rule.
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	SHTR1-8, CHTR1-4, RHTR1-4, FL1-3, ECD1, ECD2, TO1-4, GEN1-4	This regulation that limits opacity to 20% applies to Stationary Combustion Equipment, such as engines, boilers, heaters, and flares unless your equipment is subject to another state regulation that limits particulate matter such as 20.2.19 NMAC (see 20.2.61.109 NMAC). The facility will comply with this regulation.
20.2.70 NMAC	Operating Permits	Yes	Facility	This regulation establishes requirements for obtaining an operating permit. The facility is a major source for NO _x , CO, VOC, and SO ₂ . The facility will have a Title V operating permit P-297 to meet the requirements of this regulation once the permit is issued.
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	This regulation establishes a schedule of operating permit emission fees. The facility is subject to 20.2.70 NMAC and is therefore subject to requirements of this regulation. The facility will meet all fee requirements under 20.2.71.110 NMAC.

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.72 NMAC	Construction Permits	Yes	Facility	This regulation establishes the requirements for obtaining a construction permit. The facility is a stationary source that has potential emission rates greater than 10 pounds per hour or 25 tons per year of any regulated air contaminant for which there is a National or New Mexico Air Quality Standard. The facility has a construction permit (NSR Permit) 7877M2 to meet the requirements of this regulation.
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	This regulation establishes emission inventory requirements. The facility meets the applicability requirements of 20.2.73.300 NMAC. The facility will meet reporting all applicable reporting requirements under 20.2.73.300.B.1 NMAC.
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	No	N/A	The facility does not meet the threshold value for a major PSD source. Thus, the regulation does not apply to this facility.
20.2.75 NMAC	Construction Permit Fees	Construction Permit Fees	Yes	This regulation establishes a schedule of operating permit emission fees. This facility is currently permitted under NSR #7877M2. This regulation applies to this facility and the owner will comply with this regulation.
20.2.77 NMAC	New Source Performance	Yes	GEN1-4, FWPE1-2, IFR1-14, SHTR1-8, CHTR1-4, FUG, SOTK1, EOOSCOMP1-7, ECOSCOMP1-7, ERESCOMP1-14, AU1-4	This regulation establishes state authority to implement new source performance standards (NSPS) for stationary sources, as amended through January 15, 2017. • GEN1-4 are subject to 40 CFR 60, Subpart JJJJ. • FWPE1-2 are subject to 40 CFR 60, Subpart IIII. • IFR1-8 are subject to 40 CFR 60, Subpart Kb. • IFR9-14 are subject to 40 CFR 60, Subpart Kc once they are constructed at the facility. • SHTR1-8 and CHTR1-4 are subject to 40 CFR 60, Subpart Dc. • FUG, EOOSCOMP1-3, ECOSCOMP1-4, ERESCOMP1-7, and AU1 are subject to 40 CFR 60, Subpart OOOOa. ERESCOMP11-13 are dry seal centrifugal compressors; therefore, they are not subject to the rule. • SOTK1 and EOOSCOMP4-7, ECOSCOMP5-7, ERESCOMP8-10 & 14, AU2-4 are/will be subject to 40 CFR 60, Subpart OOOOb once they are constructed at the facility.
20.2.78 NMAC	Emission Standards for HAPS	No	Units Subject to 40 CFR 61	This regulation establishes state authority to implement emission standards for hazardous air pollutants subject to 40 CFR Part 61. This facility does not emit hazardous air pollutants which are subject to the requirements of 40 CFR Part 61 and is therefore not subject to this regulation.
20.2.79 NMAC	Permits – Nonattainment Areas	No	N/A	This regulation establishes the requirements for obtaining a nonattainment area permit. The facility is not located in a non-attainment area and therefore is not subject to this regulation.
20.2.80 NMAC	Stack Heights	No	N/A	This regulation establishes requirements for the evaluation of stack heights and other dispersion techniques. This regulation does not apply as all stacks at the facility follow good engineering practices.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	GEN1-4, FWPE1-2	This regulation established state authority to implement MACT Standards for source categories of HAPs. The facility is an area source of HAPs and four (4) emergency generators (Units: GEN1-4) and two fire pumps (Units: FWPE1-2) are subject to 40 CFR 63 Subpart ZZZZ. Thus, this regulation applies to this facility.

Table for Applicable Federal Regulations:

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
40 CFR 50	NAAQS	Yes	Facility	This regulation defines national ambient air quality standards. The facility meets all applicable national ambient air quality standards for NO _x , CO, SO ₂ , H ₂ S, PM ₁₀ , and PM _{2.5} under this regulation.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	GEN1-4, FWPE1-2, IFR1-14, SHTR1-8, CHTR1-4, FUG, SOTK1, EOOSCOMP1-7, ECOSCOMP1-7, ERESCOMP1-14, AU1-44	This regulation establishes state authority to implement new source performance standards (NSPS) for stationary sources, as amended through January 15, 2017. • GEN1-4 are subject to 40 CFR 60, Subpart JJJJ. • FWPE1-2 are subject to 40 CFR 60, Subpart IIII. • IFR1-8 are subject to 40 CFR 60, Subpart Kb. • IFR9-14 are subject to 40 CFR 60, Subpart Kc once they are constructed at the facility. • SHTR1-8 and CHTR1-4 are subject to 40 CFR 60, Subpart Dc. • FUG, EOOSCOMP1-3, ECOSCOMP1-4, ERESCOMP1-7, and AU1 are subject to 40 CFR 60, Subpart OOOOa. ERESCOMP11-13 are dry seal centrifugal compressors; therefore, they are not subject to the rule. • SOTK1 and EOOSCOMP4-7, ECOSCOMP5-7, ERESCOMP8-10 & 14, AU2-4 are/will be subject to 40 CFR 60, Subpart OOOOb once they are constructed at the facility.
NSPS 40 CFR60.40a, Subpart Da	Subpart Da, Performance Standards for Electric Utility Steam Generating Units	No	N/A	This regulation establishes standards of performance for electric utility steam generating units. This regulation does not apply because the facility does not operate any electric utility steam generating units.
NSPS 40 CFR60.40b Subpart Db	Electric Utility Steam Generating Units	No	N/A	This regulation establishes standards of performance for industrial-commercial-institutional steam generating units. This regulation does not apply because the facility does not operate any industrial-commercial-institutional steam generating units with a heat capacity greater than 100 MMBtu/hr.
40 CFR 60.40c, Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	Yes	SHTR1-8, CHTR 1-4	The heaters have an input rating greater than 10 MMBtu/hr and are subject per §60.40c(a). Since the units burn only natural gas, there are no applicable control, monitoring, or reporting requirements. Only fuel use records are required per §60.48c(g).

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
NSPS 40 CFR 60, Subpart Ka	Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	No	N/A	This regulation establishes performance standards for storage vessels for petroleum liquids for which construction, reconstruction, or modification commenced after May 18, 1978, and prior to July 23, 1984. The facility was not constructed prior to July 23, 1984. Thus, this rule does not apply to this facility.
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, and On or Before October 4, 2023	Yes	IFR1-8	This regulation establishes performance standards for volatile organic liquid storage vessels (including petroleum liquid storage vessels) for which construction, reconstruction, or modification commenced after July 23, 1984 and on or before October 4, 2023. The tanks were constructed within the applicable dates of this rule, store volatile organic liquids, and have a design volume greater than or equal to 75 cubic meters; therefore, these oil storage tanks (IFR1-8) are subject to the applicable requirements of this rule. The tanks use internal floating roof tanks to comply with the control requirements. The slop oil tank (SOTK) stores petroleum liquid prior to custody transfer and has a design capacity less than 10,000 BBL; therefore, this tank is exempt from this rule per §60.110b(d)(4).
NSPS 40 CFR 60, Subpart Kc	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After October 4, 2023	Yes	IFR9-14	This regulation establishes performance standards for volatile organic liquid storage vessels (including petroleum liquid storage vessels) for which construction, reconstruction, or modification commenced after October 4, 2023. The tanks were constructed or will be constructed after the applicability date of this rule, store volatile organic liquids, and have a design volume greater than or equal to 75.7 cubic meters; therefore, these oil storage tanks (IFR1-8) are subject to the applicable requirements of this rule. The tanks use internal floating roof tanks to comply with the control requirements. The slop oil tank (SOTK) stores petroleum liquid prior to custody transfer and has a design capacity less than 10,000 BBL; therefore, this tank is exempt from this rule per §60.110c(d)(4).
NSPS 40 CFR 60.330 Subpart GG	Stationary Gas Turbines	No	N/A	The facility does not have any applicable units. Therefore, the facility is not subject to this regulation.
NSPS 40 CFR 60, Subpart KKK	Leaks of VOC from Onshore Gas Plants	No	N/A	This regulation defines standards of performance for equipment leaks of VOC emissions from onshore natural gas processing plants for which construction, reconstruction, or modification commenced after January 20, 1984, and on or before August 23, 2011. The was constructed after August 23, 2011. Therefore, this regulation does not apply to this facility.
NSPS 40 CFR Part 60 Subpart LLL	Standards of Performance for Onshore Natural Gas Processing: SO₂ Emissions	No	N/A	This regulation establishes standards of performance for SO ₂ emissions from onshore natural gas processing for which construction, reconstruction, or modification of the amine sweetening unit commenced after January 20, 1984, and on or before August 23, 2011. The facility is not subject to this regulation as the amine sweetening unit was constructed after August 23, 2011.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
NSPS 40 CFR Part 60 Subpart OOOO	Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution for which construction, modification or reconstruction commenced after August 23, 2011 and before September 18, 2015	No	N/A	The rule applies to “affected” facilities that are constructed, modified, or reconstructed after Aug 23, 2011 (40 CFR 60.5365): gas wells, including fractured and hydraulically refractured wells, centrifugal compressors, reciprocating compressors, pneumatic controllers, certain equipment at natural gas processing plants, sweetening units at natural gas processing plants, and storage vessels. The facility is not subject to this regulation as the facility was constructed after September 18, 2015.
NSPS 40 CFR Part 60 Subpart OOOOa	Subpart OOOOa—Standards of Performance for Crude Oil and Natural Gas Facilities for Which Construction, Modification or Reconstruction Commenced After September 18, 2015 and On or Before December 6, 2022	Yes	FUG, EOOSCO MP1-3, ECOSCO MP1-4, ERESCOMP1-7, AU1	The rule applies to the following “affected” facilities that are constructed, modified, or reconstructed after September 18, 2011 and on or before December 6, 2022: gas wells, including fractured and hydraulically refractured wells, centrifugal compressors, reciprocating compressors, pneumatic controllers, certain equipment at natural gas processing plants, sweetening units at natural gas processing plants, and storage vessels. The reciprocating compressors used for oil stabilization gas (EOOSCOMP1-3), condensate stabilization gas (ECOSCOMP1-4), and residue gas air (ERESCOMP1-7) are subject to rule per from §60.5365a(c). The electric driven centrifugal compressors (ERESCOMP11-14) are exempt from §60.5365a(b) since they use dry seals. The electric driven screw compressors for the refrigeration gas and instrument air are exempt from the definition of centrifugal compressor per §60.5430a. IFR1-4 were constructed within the applicability dates of the rule; however, since emissions will be limited by permit to less than 6 tpy, IFR1-IFR4 are exempt per §60.5365a(e). Also, since IFR1-4 are subject to NSPS Kb they are exempt from this subpart per §60.5395a(e). IFR5-14 have been or will be constructed after the applicability date for this rule and are therefore not subject. The site uses compressed air for pneumatic controllers. The site will be subject to leak monitoring from fugitive components per §60.5365a(f). Since the sweetening units process less than 2 lt/d of sulfur, they are exempt from §60.5365a(g).
NSPS 40 CFR Part 60 Subpart OOOOb	Standards of Performance for Crude Oil and Natural Gas Facilities for Which Construction, Modification or Reconstruction	Yes	EOOSCO MP4-7, ECOSCO MP5-7, ERESCOMP8-10, AU2-4, SOTK1	The rule applies to the following “affected” facilities that are constructed, modified, or reconstructed after December 6, 2022: gas wells, including fractured and hydraulically refractured wells, centrifugal compressors, reciprocating compressors, pneumatic controllers, certain equipment at natural gas processing plants, sweetening units at natural gas processing plants, and storage vessels. The reciprocating compressors used for oil stabilization gas (EOOSCOMP4-7), condensate stabilization gas (ECOSCOMP5-7), and residue gas air (ERESCOMP8-10) are subject to this subpart per from §60.5365a(c). The electric driven

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
	Commenced After December 6, 2022			centrifugal compressors (ERESCOMP11-14) are exempt from §60.5365a(b) since they use dry seals. The electric driven screw compressors for the refrigeration gas and instrument air are exempt from the definition of centrifugal compressor per §60.5430a. IFR5-14 have been or will be constructed after the applicability date of the rule; however, since IFR5-14 are subject to NSPS Kb they are exempt from this subpart per §60.5395b(e). IFR9-14 will be constructed after the applicability date of this rule; however, since emissions will be limited by permit to less than 6 tpy VOCs and less than 20 tpy methane, IFR9-IFR14 are exempt per §60.5365b(e). SOTK1 was modified after the applicability date of this rule when it received additional fluids when Train 3 came online and is therefore subject to this subpart per §60.5365b(e)(3)(ii)(D). Since the sweetening units process less than 2 lt/d of sulfur, they are exempt from §60.5365b(g).
NSPS 40 CFR 60 Subpart IIII	Standards of performance for Stationary Compression Ignition Internal Combustion Engines	Yes	FWPE1-2	This regulation establishes standards of performance for stationary compression ignition combustion engines. The fire pump engines (Units: FWPE1-2) will comply with the applicable requirements of this regulation.
NSPS 40 CFR Part 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Yes	GEN1-4	This regulation establishes standards of performance for stationary spark ignition combustion engines. The emergency generators (Units: GEN1-4) will comply with the applicable requirements of this regulation.
NSPS 40 CFR 60 Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	No	N/A	This regulation establishes standards of performance for greenhouse gas emissions for electric generating units. This facility does not have electric generating units. This regulation does not apply.
NSPS 40 CFR 60 Subpart UUUU	Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units	No	N/A	This regulation establishes emissions guidelines for greenhouse gas emissions and compliance times for electric generating units. This facility does not have electric generating units. This regulation does not apply.
NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf	Standards of performance for Municipal Solid Waste (MSW) Landfills	No	N/A	This facility is not a municipal solid waste landfill. This regulation does not apply.
NESHAP 40 CFR 61 Subpart A	General Provisions	No	Units Subject to 40 CFR 61	NSPS 40 CFR 61 does not apply to the facility because the facility does not emit or have the triggering substances on site and/or the facility is not involved in the triggering activity. The facility is not subject to this regulation. None of the subparts of Part 61 apply to the facility.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
NESHAP 40 CFR 61 Subpart E	National Emission Standards for Mercury	No	N/A	The provisions of this subpart are applicable to those stationary sources which process mercury ore to recover mercury, use mercury chlor-alkali cells to produce chlorine gas and alkali metal hydroxide, and incinerate or dry wastewater treatment plant sludge
NESHAP 40 CFR 61 Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources)	No	N/A	This regulation establishes national emission standards for equipment leaks (fugitive emission sources). The facility does not have equipment that operates in volatile hazardous air pollutant (VHAP) service [40 CFR Part 61.240]. The regulated activities subject to this regulation do not take place at this facility. The facility is not subject to this regulation.
MACT 40 CFR 63, Subpart A	General Provisions	Yes	GEN1-4, FWPE1-2	This regulation defines general provisions for relevant standards that have been set under this part. The facility is subject to this regulation because 40 CFR Part 63 Subpart ZZZZ applies to the emergency generators (Units: GEN1-4) and fire pumps (Units: FWPE1-2).
MACT 40 CFR 63.760 Subpart HH	Oil and Natural Gas Production Facilities	No	N/A	This regulation establishes national emission standards for hazardous air pollutants from oil and natural gas production facilities. As an area source of HAP, sources subject to HH include triethylene glycol (TEG) dehydration units that meet certain criteria. The facility does not have a TEG dehydration unit; therefore, this regulation does not apply.
MACT 40 CFR 63 Subpart HHH	National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities	No	N/A	This regulation establishes national emission standards for hazardous air pollutants from natural gas transmission and storage facilities. This regulation does not apply because this facility is not a natural gas transmission or storage facility as defined in this regulation [40 CFR Part 63.1270(a)].
MACT 40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters	No	N/A	This regulation establishes national emission standards for a major source of HAPs for industrial, commercial, and institutional boilers and process heaters. This facility is not a major source of HAPs. Therefore, this regulation does not apply to this facility.
MACT 40 CFR 63 Subpart UUUUU	National Emission Standards for Hazardous Air Pollutants Coal & Oil Fire Electric Utility Steam Generating Unit	No	N/A	This regulation establishes national emission standards for hazardous air pollutants from coal and oil-fired electric utility steam generating units. The facility does not contain the affected units. This regulation does not apply.
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT)	Yes	GEN1-4, FWPE1-2	This regulation defines national emissions standards for HAPs from stationary reciprocating Internal Combustion Engines. The emergency generators (Units: GEN1-4) will comply with the applicable requirements of this regulation by following the requirements of NSPS JJJJ. The fire pumps (Units: FWPE1-2) will comply with the applicable requirements of this regulation by following the requirements of NSPS IIII.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
40 CFR 64	Compliance Assurance Monitoring	Yes	AU1-4	This regulation defines compliance assurance monitoring. Amine sweeteners (Units: AU1-4) are subject to CAM to demonstrate continuous compliance with the control limits. These units use a control device(s) (TO1-4) to achieve compliance with such emission limitations. SOTK1 uses ECD1 to comply with emission limitations set forth in NSPS OOOOb; therefore SOTK1 is exempt from CAM per §64.2(b)(1)(i).
40 CFR 68	Chemical Accident Prevention	No	N/A	This regulation does not apply to this facility because the facility does not store more than the regulated quantity of regulated substances.
Title IV – Acid Rain 40 CFR 72	Acid Rain	No	N/A	This part establishes the acid rain program. This part does not apply because the facility is not covered by this regulation [40 CFR Part 72.6].
Title IV – Acid Rain 40 CFR 73	Sulfur Dioxide Allowance Emissions	No	N/A	This regulation establishes sulfur dioxide allowance emissions for certain types of facilities. This part does not apply because the facility is not the type covered by this regulation [40 CFR Part 73.2].
Title IV-Acid Rain 40 CFR 75	Continuous Emissions Monitoring	No	N/A	The provisions of this part apply to each affected unit subject to Acid Rain emission limitations or reduction requirements for SO ₂ or NO _x . The facility is not an acid rain source and is therefore not subject to this application.
Title IV – Acid Rain 40 CFR 76	Acid Rain Nitrogen Oxides Emission Reduction Program	No	N/A	This regulation establishes an acid rain nitrogen oxide emission reduction program. This regulation applies to each coal-fired utility unit that is subject to an acid rain emissions limitation or reduction requirement for SO ₂ . This part does not apply because the facility does not operate any coal-fired units [40 CFR Part 76.1].
Title VI – 40 CFR 82	Protection of Stratospheric Ozone	No	N/A	This regulation establishes a regulation for the protection of the stratospheric ozone. The regulation is not applicable because the facility does not “service”, “maintain” or “repair” class I or class II appliances nor “dispose” of the appliances [40 CFR Part 82.1(a)].