

## MAJOR SOURCE OPERATING PERMIT APPLICATION

STORAGE TANKS

1.	FAC	FACILITY NAME:		2. STORAGE TANK IDENTIFICATION:		3. PROCESS EMISSION SOURCE ( IDENTIFY ):								
4	LOC	CATION OF THE STOP A CE TANK OF TANK FARM ( JITM VEDTICAL AND HODIZONTAL COOPENIATES ).												
4.	LOC	CATION OF THE STUKAUE TAINN OK TAINN FAKIVI ( UTMI VEKTICAL AND HUKIZUNTAL CUUKDINATES ):												
	UTN	M VERTICAL: UTM HORIZONTAL:												
	-													
5.	STO	RAGE TANK CAPACITY:	6. YEAR (	OF INSTALLATION:	7. TANK HEIGHT		8. TANK DIAMETER:							
		(GALLONS)				(FEET)	(FEET)							
9	COI	LOR OF TANK:												
	001													
		WHITE OTHER SPECIFY												
10	10.0													
10.	IS T	THIS TANK EQUIPPED WITH SUBMERGED FILL PIPE?												
		VES NO												
11	TVD													
11.	IIP	?E OF STORAGE TANK:												
		OPEN TOP TANK FIXED ROOF FIXED ROOF W/ INTERNAL FLOATING ROOF OTHER (SPECIEV)												
		OLEN TOT TAINKFIAED ROOFFIAED ROOF W/ INTERNAL FLUATING ROOFOTHER (SPECIFY)												
		PRESSURIZED TANKEXTERNAL FLOATING ROOFVARIABLE VAPOR SPACE												
12.	FOR	OR FIXED ROOF TANKS:												
	A.	TANK CONFIGURATION ( CHECK ONE ):VERTICAL ( UPRIGHT CYLINDER )HORIZONTAL												
	в	TANK ROOF TYPE	CONF ROC	F-INDICATE TANK ROO	FHFIGHT (FT)									
	Б.	( CHECK ONE )				IND	CATE SHELL RADIUS (FT)							
		DOME ROOF-INDICATE TANK ROOF HEIGHT (FT)												
13	FOR	OD EL OATING DOOF TANKS ( ROTH INTEDNAL AND EVTEDNAL ) SUELL CONDITION (CUECH ONE).												
15.	TON	JK FLOATING KOOF TAINKS ( DOTH INTERINAL AND EATERINAL ) - SHELL CUNDITION (CHECK UNE ):												
		LIGHT RUST DENSE RUST GUNITE LINED												
1.4	FOR													
14.	FOR	EXTERNAL FLOATING RO	OF TANKS:											
	Δ	TANK CONSTRUCTION (CI	HECK ONE )	WELL	OFD TANK	RIVETE	TANK							
	11.		iller one ).			KIVEII								
	В.	RIM SEAL SYSTEM DESCR	IPTION ( CHE	ECK ONE ):										
		SHOE MOUNTED PRIMARYVAPOR MOUNTED PRIMARYLIQUID MOUNTED PRIMARY												
		SHOE PRIMARY, RIM SECONDARYVAPOR PRIMARY RIM SECONDARYLIQUID PRIMARY, RIM SECONDA												
		LIQUID PRIMARY W/WEATHER SHIELDSHOE PRIMARY AND SECONDARYVAPOR PRIMARY W/WEATHER SHIELD												
	C	BOOE TYPE ( CHECK ONE	· ·	ΡΟΝΤΟΟΝ ΡΟΟ			V BOOE							
	C.	KOOF TIFE (CHECK ONE	).			JUBLE DEC	K KOOF							
	D.	ROOF FITTING TYPES (INDICATE THE NUMBER OF EACH TYPE )												
		ACCESS HATCH (24" DIAM	IETER WELL	) UNSLOTTED GUIDE	E-POLE WELL	GAU	JGE-FLOAT WELL (20" DIAMETER)							
		BOLTED COVER, GA	SKETED	( 8" DIAMETER UNS	LOTTED POLE, 21"DIA WE	ELL)	_UNBOLTED COVER, UNGASKETED							
		UNBOLTED COVER,	GASKETED	UNGASKETED	SLIDING COVER		_UNBOLTED COVER, GASKETED							
		UNBOLTED COVER,	UNGASKETE	DGASKETED SL	IDING COVER		_BOLTED COVER, GASKETED							
		CALICE HATCH/SAMDLE N			$(10^{\circ})$ DIA WELL )	DOC								
		GAUGE-HATCH/SAMPLE V	VELL (8 DIA UCAI	WEIGHTED M	ECHANICAI	RUU	OPEN							
		ACTUATION GASKETED		ACTUATION GASKETED										
		WEIGHTED MECHANICAI		WEIGHTED MECHANICAL			90% CLOSED							
		ACTUATION UNGASKETED		ACTUATION UNGASKETED										
		SLOTTED GUIDE-POLE/SAMPLE WELL ROOF LEG (3" DIA) ROOF LEG (2-1/2" DIA)												
		(8" DIA SLOTTED POLE, 2	"DIA WELL	ADJUSTABLE, PONTOON AREA			ADJUSTABLE, PONTOON AREA							
		UNGASKETED SLIDING COVER, WITHOUT FLOATADJUSTABLE, CENTER AREAADJUSTABLE, CENTER ARE												
		UNGASKETED SLIDING COVER, WITH FLOATADJUSTABLE, DOUBLE-DECKADJUSTABLE, DOUBLE-DECKADJUSTABLE, DOUBLE-DECK												
		GASKETED SLIDING COVER, WITHOUT FLOAT KUOF KUOPS												
		GASKETED SLIDING COVER, WITH FLOATFIXEDFIXED												

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15. FC	OR INTERNA	L FLOA	TING ROOF TANKS:									
A.	A. RIM SEAL SYSTEM DESCRIPTION:											
	LIQUID I VAPOR N	MOUNT MOUNT	'ED PRIMARY 'ED PRIMARY	LIQUID MOUNTED PRIMARY PLUS SECONDARY SEAL VAPOR MOUNTED PRIMARY PLUS SECONDARY SEAL								
B.	NUMBER O	OF COLU	UMNS:		D. DECK TYPE (	CHECK ONE ):	WELDED	BOLTED				
C.	C. EFFECTIVE COLUMN DIAMETER			(FEET)	E. TOTAL DECK	SEAM LENGTH:	( FEET )					
F.	. DECK AREA:			( SQUARE FEET )								
G.	G. DECK FITTING TYPES ( INDICATE THE NUMBER OF EACH TYPE ):											
	ACCESS H. BOL' UNB UNBC	ATCH (2 TED CO OLTED OLTED (	24" DIA ) VER, GASKETED COVER, GASKETED COVER, UNGASKETEI	AUTOMATIC GAUGE FLOAT WELL COLUMN WELL BOLTED COVER, GASKETED BUILT-UP COLUMN-SLIDING COVER, GASKETED UNBOLTED COVER, UNGASKETED PIPE COLUMN-FLEXIBLE FABRIC SLEEVE SEAL PIPE COLUMN-SLIDING COVER, GASKETED PIPE COLUMN-SLIDING COVER, GASKETED PIPE COLUMN-SLIDING COVER, UNGASKETED								
	LADDER W SLID SLID	VELL ING CC ING CC	WER, GASKETED WER, UNGASKETED	SAMPLE PIPE OR WELL  ROOF LEG OR HANGER WELL   SLOTTED PIPE-SLIDING COVER, GASKETED ADJUSTABLE   SLOTTED PIPE-SLIDING COVER, UNGASKETED FIXED   SAMPLE WELL-SLIT FABRIC SEAL, 10% OPEN AREA FIXED   STUB DRAIN, 1 INCH DIAMETER FIXED								
	VACUUM I	BREAKI	ER									
	WEI0	GHTED GHTED	MECHANICAL ACTUA MECHANICAL ACTUA	ATION, GASKETED ATION, UNGASKETED								
16. FOR VARIABLE VAPOR SPACE TANKS:												
VOLUME EXPANSION CAPACITY(GALLONS)												
17. C	COMPLETE T	'HE FOL	LOWING TABLE FOR	MATERIALS TO BE ST	ORED IN THIS TANK	:						
MATE COMP STORI	RIAL OR PONENT ED	WT %	MATERIAL ANNUAL THROUGHPUT (GAL/YR)	MATERIAL STORED-DAILY AVERAGE (GALLONS)	COMPONENT MOLECULAR WEIGHTS (LB/LB.MOLE)	COMPONENT VAPOR PRESSURES (PSIA)	MATERIAL STORAGE PRESSURE (PSIA)	MATERIAL AVERAGE STORAGE TEMP. (DEG. F)				
N	/ULTIPURPO	DSE TAN	NK WITH VARIABLE C	OMPOSITION:								
					YES	NO						
18. E	DESCRIBE TH	IE OPEI	RATION THIS TANK W	TILL SERVE:								
10 5	A OF MUSIC	70.		DEVICIONING			NICION					
19. P	AGE NUMBI	⊐K:		KEVISION NUMBER: DATE OF KEVISION:								

## INSTRUCTIONS FOR APC FORM V.6 STORAGE TANKS

SOURCES THAT ARE REQUIRED TO OBTAIN A PERMIT UNDER PARAGRAPH 1200-3-9-.02(11) OF TENNESSEE AIR POLLUTION CONTROL REGULATIONS, MUST COMPLETE AND RETURN THIS FORM, IF APPLICABLE, APPLICATIONS ARE INCOMPLETE UNLESS ALL APPLICABLE INFORMATION REQUESTED HEREIN IS SUPPLIED. FAILURE TO SUPPLY ANY ADDITIONAL INFORMATION REQUESTED BY THE TECHNICAL SECRETARY TO ENABLE HIM TO ACT ON THE APPLICATION MAY RESULT IN DENIAL OF THIS APPLICATION. IF THERE IS ADDITIONAL INFORMATION THAT WILL NOT FIT ON A FORM, PLEASE DECLARE THE INFORMATION ON ADDITIONAL SHEET(S) AND ATTACH IT TO THE BACK OF THE ORIGINAL.

ONE FORM MUST BE COMPLETED FOR EACH STORAGE TANK FOR WHICH AN AIR POLLUTION CONTROL PERMIT IS REQUIRED.

IF YOU WISH TO PROVIDE ADDITIONAL INFORMATION TO DEFINE ALTERNATIVE OPERATING SCENARIOS OR DEFINE PERMIT TERMS AND CONDITIONS ALLOWING EMISSIONS TRADING UNDER A FEDERALLY ENFORCEABLE EMISSIONS CAP TO BE ESTABLISHED IN THE PERMIT. PLEASE DECLARE THE INFORMATION ON AN APC FORM(S) OR ON ADDITIONAL SHEET(S). UNLESS OTHERWISE REQUESTED AS A LIMITING CONDITION, PERMIT IS BASED ON 8.760 HRS/YR.

- ITEM 2 ASSIGN AN IDENTIFICATION CODE TO THIS STORAGE TANK (e.g., T1, T2, etc.).
- IF THE TANK ROOF IS SLOPED, PROVIDE THE AVERAGE TANK HEIGHT. ITEM 7
- **ITEM 10** A SUBMERGED FILL PIPE IS ANY FILL PIPE WITH A DISCHARGE OPENING WHICH IS ENTIRELY SUBMERGED WHEN THE LIQUID LEVEL IS SIX INCHES ABOVE THE TANK BOTTOM.
- ITEM 12 ANSWER ONLY IF YOU HAVE A FIXED ROOF TANK.
  - THE FOLLOWING EQUATION CAN BE USED TO CALCULATE THE TANK ROOF HEIGHT OF A CONE ROOF TANK:  $H = S \times R$ 
    - WHERE H IS THE TANK ROOF HEIGHT, FT

S IS THE TANK CONE ROOF SLOPE, IF UNKNOWN A STANDARD VALUE OF 0.0625 FT/FT CAN BE USED, FT/FT R IS THE TANK SHELL RADIUS, FT

- THE FOLLOWING EQUATION CAN BE USED TO CALCULATE THE TANK ROOF HEIGHT OF A DOME ROOF TANK:
  - $H = R_R (R_R^2 R_S^2)^0$
- WHERE H IS THE TANK ROOF HEIGHT, FT R<sub>R</sub> IS THE TANK DOME ROOF RADIUS, FT Rs IS THE TANK SHELL RADIUS, FT
- ITEM 13 ANSWER ONLY IF YOU HAVE AN INTERNAL OR EXTERNAL FLOATING ROOF TANK. CHECK THE SHELL CONDITION.
- ANSWER ONLY IF YOU HAVE AN EXTERNAL FLOATING ROOF TANK ITEM 14
- ITEM 14B CHECK THE APPROPRIATE RIM SEAL TYPE. ITEM 14C CHECK THE APPROPRIATE ROOF TYPE.
- ITEM 14D INDICATE THE TOTAL NUMBER OF EACH APPROPRIATE ROOF FITTING TYPE IN THE SPACE PROVIDED.
- ITEM 15 ANSWER ONLY IF YOU HAVE AN INTERNAL FLOATING ROOF TANK.
- ITEM 15A CHECK THE APPROPRIATE RIM SEAL TYPE.
- ITEM 15B INDICATE THE NUMBER OF FIXED ROOF SUPPORT COLUMNS. ENTER "0" IF THE FIXED ROOF IS SELF SUPPORTED.
- ITEM 15C INDICATE THE EFFECTIVE COLUMN DIAMETER (FT). USE THE COLUMN PERIMETER (FT)/3.14 OR 1.1 FT FOR A 9-INCH BY 7-INCH
- BUILT-UP COLUMN, 0.7 FT FOR 8-INCH DIAMETER PIPE COLUMNS, AND 1.0 IF COLUMN DIMENSIONS ARE NOT KNOWN. ITEM 15D CHECK THE APPROPRIATE DECK TYPE.
- ITEM 15E INDICATE THE TOTAL DECK SEAM LENGTH.
- ITEM 15F INDICATE THE DECK AREA.
- ITEM 15G INDICATE THE TOTAL NUMBER OF EACH APPROPRIATE DECK FITTING TYPE IN THE SPACE PROVIDED.
- ANSWER ONLY IF YOU HAVE A VARIABLE VAPOR SPACE TANK. INDICATE THE VOLUME EXPANSION CAPACITY OF THE VARIABLE ITEM 16 VAPOR SPACE ACHIEVED BY ROOF LIFTING OR DIAPHRAGM FLEXING.
- ITEM 17 COMPLETE THIS TABLE FOR ALL MATERIALS WHICH ARE STORED IN THIS TANK AND GIVE THE WEIGHT PERCENT OF EACH COMPONENT. IF THE TANK IS USED FOR MORE THAN ONE MATERIAL OR PRODUCT, CLEARLY SPECIFY EACH SEPARATE MATERIAL AND GIVE THE PERCENT BY WEIGHT OF THE COMPONENTS OF EACH. VAPOR PRESSURES SHOULD BE GIVEN AS REAL VAPOR PRESSURES AT THE TANK CONDITIONS GIVEN. MOLECULAR WEIGHT, VAPOR PRESSURE, AND STORAGE PRESSURE ARE NOT REQUIRED FOR GASOLINE AND DIESEL.
- ITEM 18 ALSO INDICATE HERE IF THIS TANK WILL SERVE OPERATIONS AT: A BULK TERMINAL WHICH RECEIVES GASOLINE FROM REFINERIES, A BULK GASOLINE PLANT WHICH RECEIVES GASOLINE FROM BULK GASOLINE TERMINALS FOR SUBSEQUENT DISTRIBUTION TO DISPENSING FACILITIES.
- ITEM 19 PAGE NUMBER MUST BE FILLED IN. REVISION NUMBER AND DATE OF REVISION ARE TO BE FILLED IN ONLY IF THE INFORMATION ON THIS FORM IS BEING REVISED.

IF ANY ITEM ON THIS APPLICATION IS NOT APPLICABLE TO THIS FACILITY, THE ITEM MUST BE FILLED IN WITH "NOT APPLICABLE" OR "N/A".