

SYSTEM ENHANCEMENT OF TITLE V PERMIT REVIEWS AND POINT SOURCE INVENTORIES

Yun-Fat Lam (Nicky)

May 07, 2004

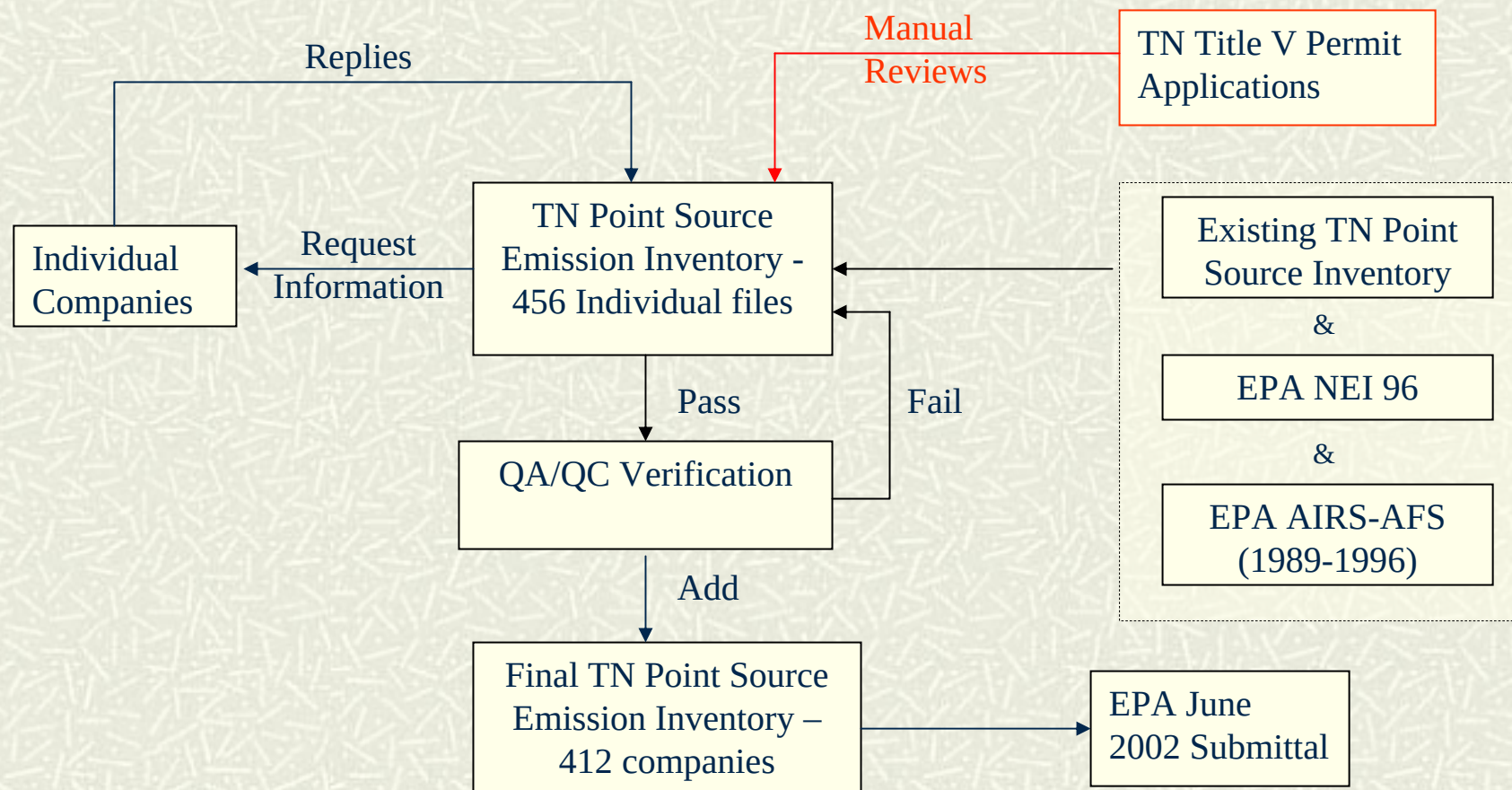


TDEC Project

- # This project was funded by the Tennessee Department of Environmental and Conservation Division of Air Quality Control in the year 2000.
- # Purpose
 - Assist TDEC to develop TN point source emission inventory for satisfying CERR requirements.
- # Tasks
 1. Evaluate current emission inventory program.
 2. Identify all the critical paths for satisfying CERR requirements.
 3. Evaluate weaknesses associated with the existing emission inventory management and reporting infrastructure.

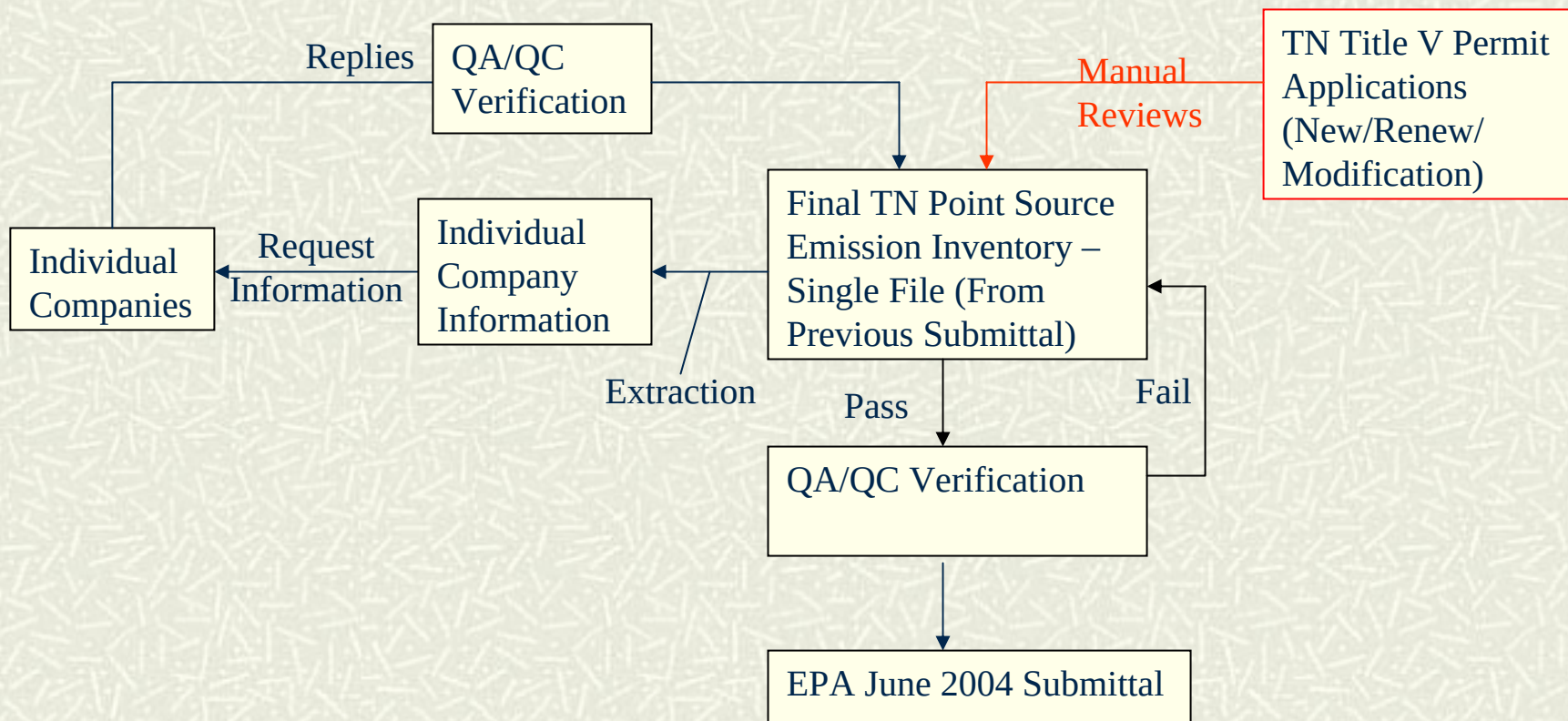
Phase I

(June 2000 – June 2002)



Phase II

(June 2002 – June 2004)



How to eliminate this process ?

- # To integrate existing emission inventory program with the Title V permit program
 - Loose Coupling

Title V Process

????

Inventory Process

Considerations of Using Title V Information

Incompatibility Issue

- Title V thresholds are based on potential emissions.
- Emission Inventory thresholds are based on actual emissions.

Incomplete Information

- Emission Inventory Information may not contain in Title V permit application.

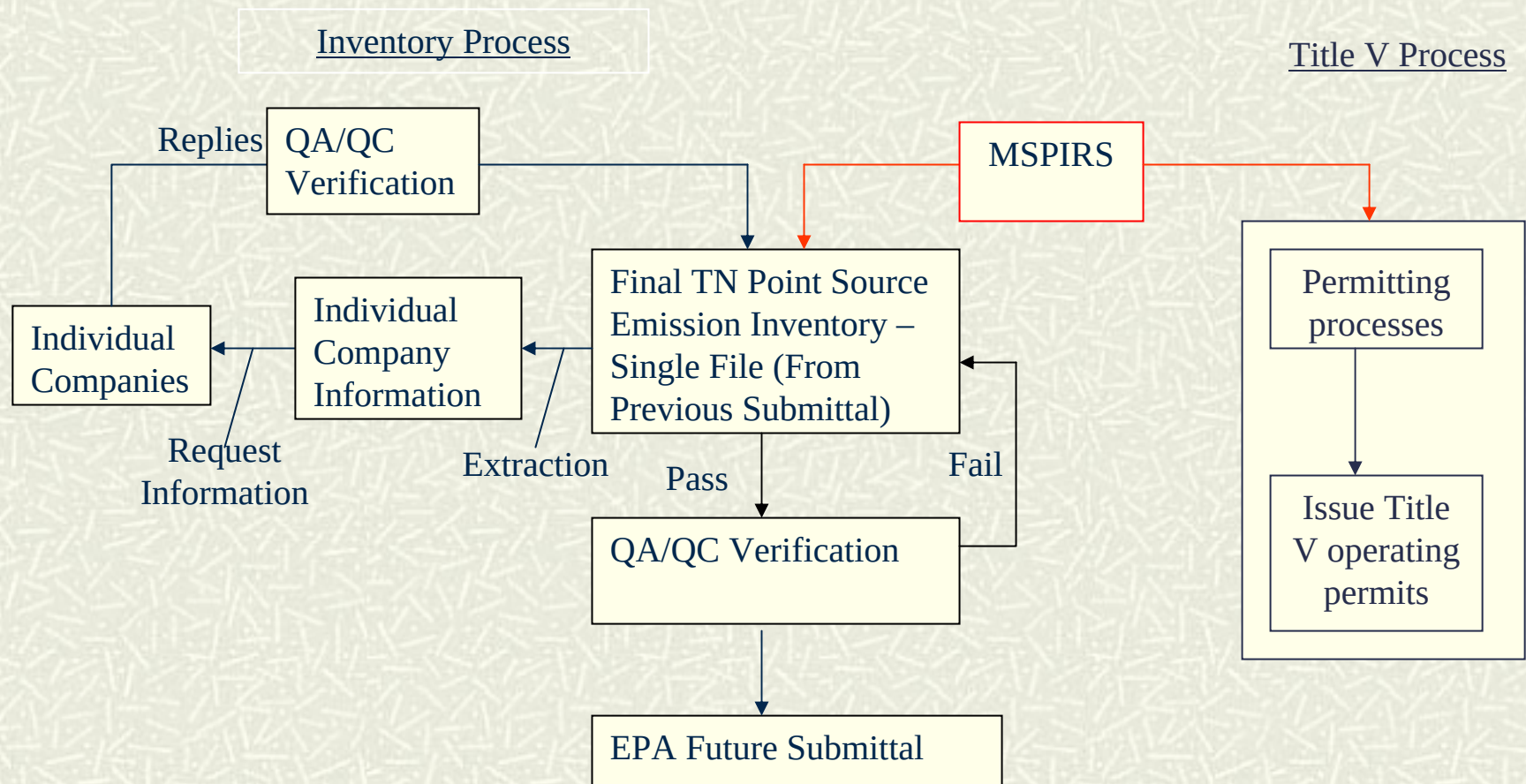
Modification Restriction

- Modification of Title V permit application required an approval from the TN air pollution board.

Efficiency

- Manually reviewing companies is a time consuming task.
-

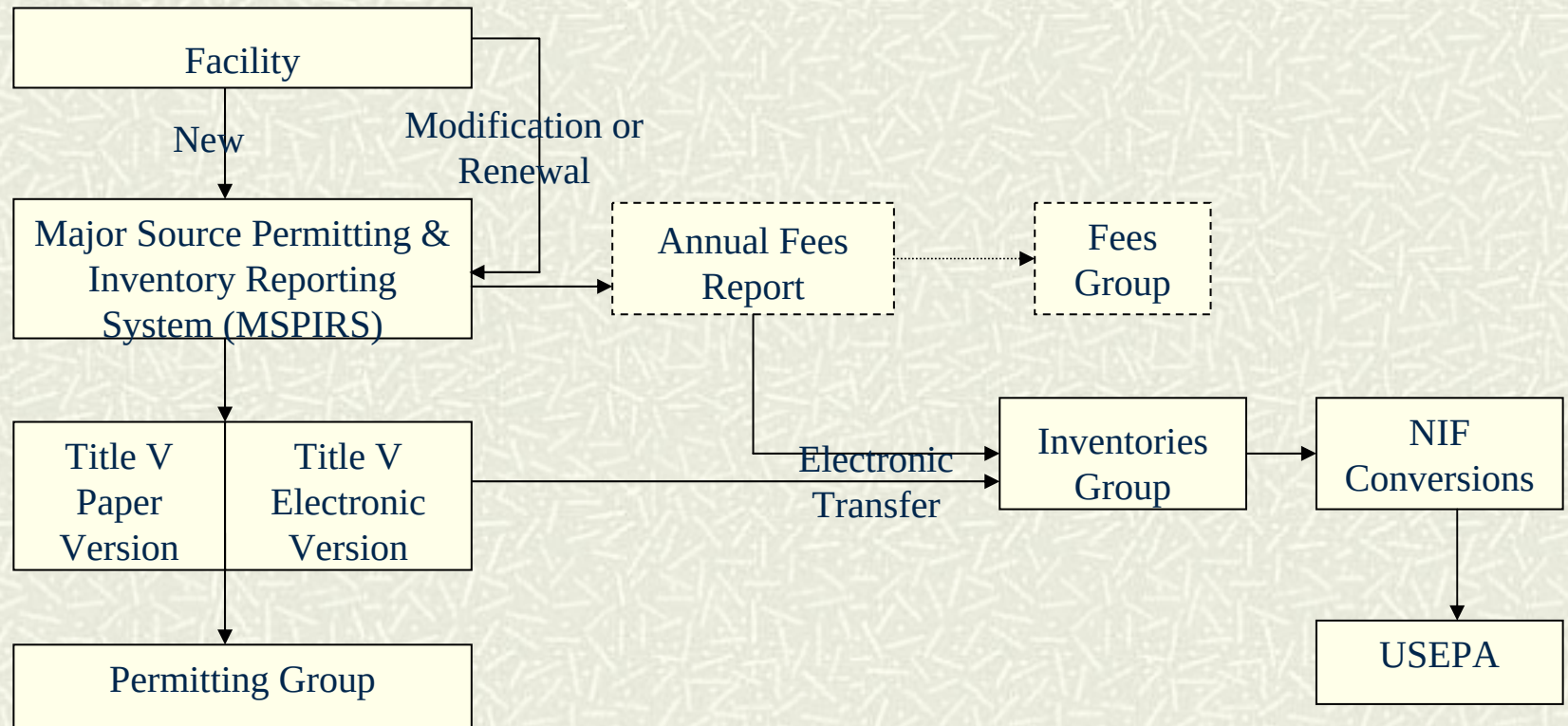
Phase III (Future)



Purposes of MSPIRS

- # 1. Providing a program that systematically integrates the existing Title V permit system with the inventory system.
 - # 2. Converting the existing Title V paper-based system into an electronic-based system.
 - # 3. Eliminating the problem of gathering emission inventory data for the inventory division.
 - # 4. Ensuring the data gathered by the program will meet the current EPA requirements for inventory submittal.
 - # 5. Offering a simple interface for one to organize and maintain one's Title V permit.
 - # 6. Offering a QA/QC tool to eliminate the chance of errors.
-

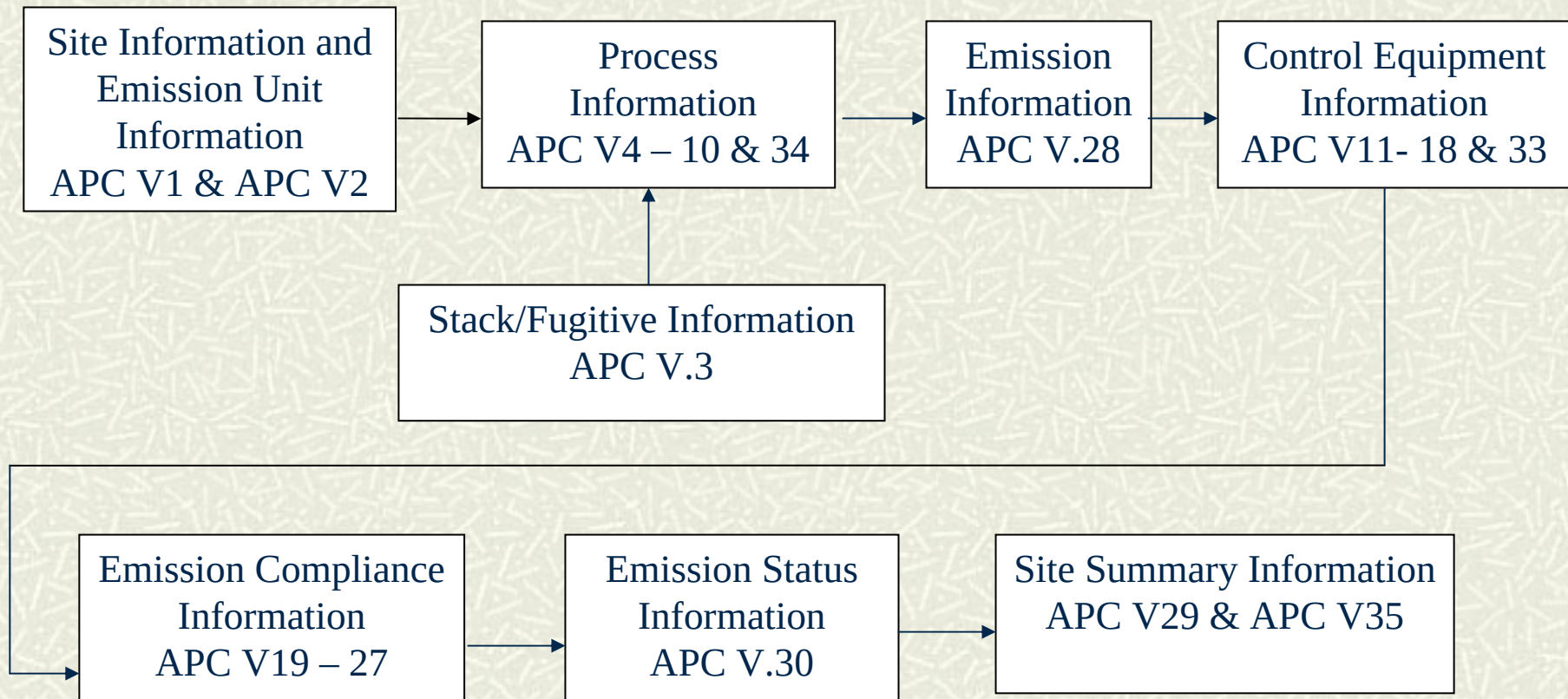
Relationship of Title V Permit System and Inventory System



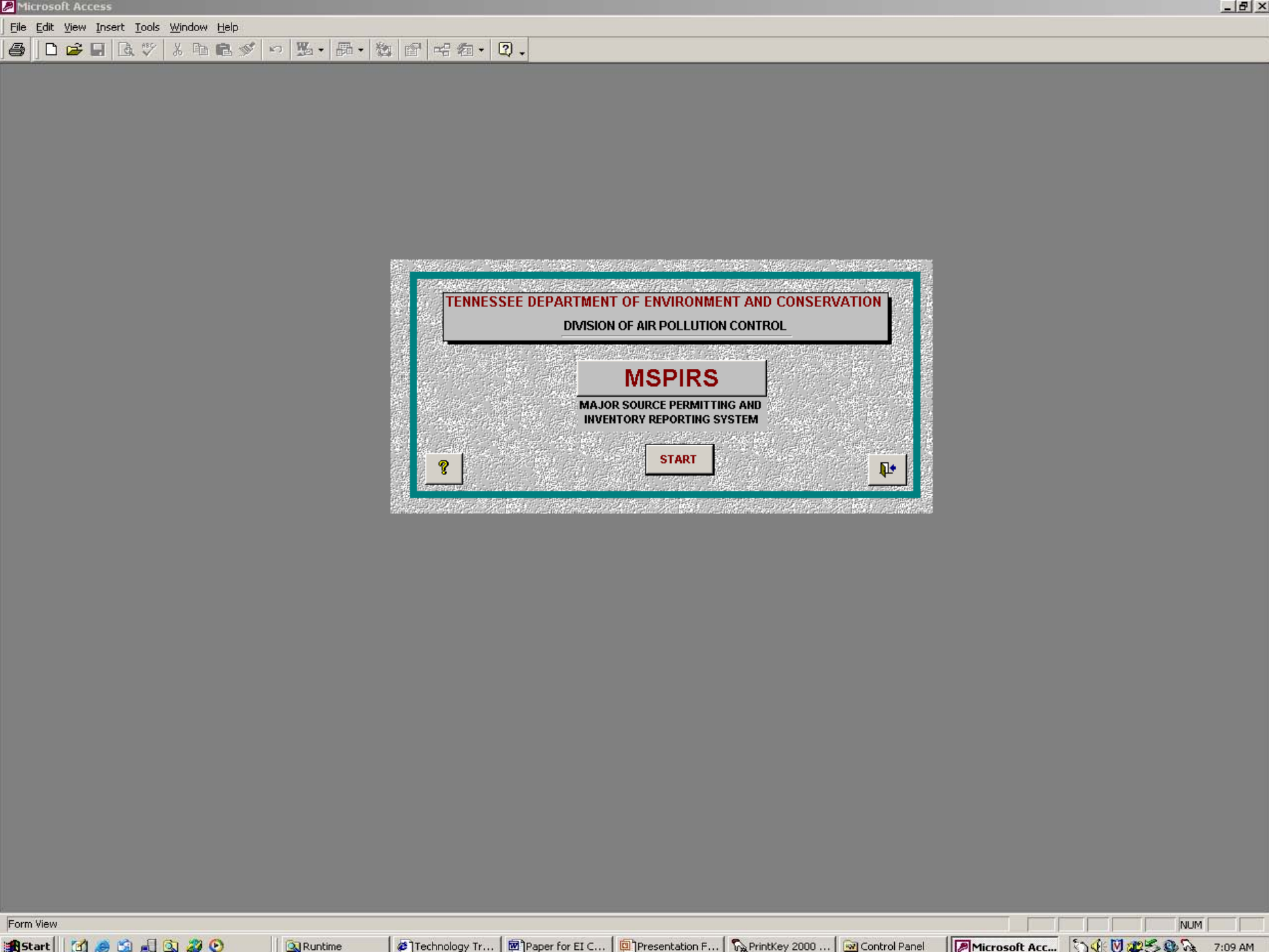
MSPIRS Specification

- # Contains all 36 original Title V Permit Application Forms.
- # Organizes in Microsoft Access Database ® according hierarchy of NEI format (7 tables).
- # Uses Switchboard Interface Style.
- # Contains QA/QC Capabilities for both Title V permit and Inventory data.
 - Uses the State predefined criteria
 - Uses EPA Basic Format & Content Checker 3.0

Organization of MSPIRS



Example



CoverForm

MAJOR SOURCE PERMITTING AND INVENTORY REPORTING SYSTEM

FACILITY NAME Example 1

FEDERAL STATE AND COUNTY ID 47117

LOCAL COUNTY ID 059 **LOCAL FACILITY ID** 0086

Go NEXT



V1-APC

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF AIR POLLUTION CONTROL
9TH FLOOR, L & C ANNEX
401 CHURCH STREET
NASHVILLE, TN 37243-1531



APC V.1

GO BACK

GO NEXT



Site Info. (SD)

MAJOR SOURCE OPERATING PERMIT APPLICATION FACILITY IDENTIFICATION

1. FACILITY NAME AND OWNER'S NAME IF DIFFERENT FROM THE FACILITY NAME Example 1		FOR	APC COMPANY NO.	
MAILING ADDRESS (ST/RD/P.O. BOX) 123 Temp Street		APC USE	LOG/PERMIT NO.	
CITY LEWISBURG	STATE TN	ZIP CODE 37091-	ONLY	
2. FACILITY LOCATION (ST/RD/HWY) 321 Temp Street		COUNTY NAME Marshall County, Tennessee		
CITY OR DISTANCE TO NEAREST TOWN LEWISBURG		ZIP CODE 37091-	TELEPHONE NUMBER WITH AREA CODE (423) 123-4567	
3. FACILITY'S PRIMARY ACTIVITY Rubber and miscellaneous products		THE FACILITY SIC CODE (S) 2821	THE NAICS CODE (S) 325211	
4. THE FACILITY REGISTRY ID: _____ NTIS SITE ID: _____ TRI ID: _____ DUN & BRADSTREET NUMBER: _____		FACILITY CATEGORY: _____ ORIS FACILITY CODE: _____		
5. CONTACT PERSON'S NAME FOR THIS PERMIT Tammy lee		TITLE Environmental Engineer	TELEPHONE NUMBER WITH AREA CODE (423) 313-3658	
6. IF FACILITY IS LOCATED IN AN AREA DESIGNATED AS "NONATTAINMENT" OR "ADDITIONAL CONTROL", INDICATE THE POLLUTANT(S) FOR THE DESIGNATION.				
7. LIST ALL VALID AIR POLLUTION PERMITS ISSUED TO THE SOURCES CONTAINED IN THIS APPLICATION (IDENTIFY ALL PERMITS WITH MOST RECENT PERMIT NUMBERS, EMISSION UNIT REFERENCE NUMBERS AND EXPIRATION DATES LISTED ON THE PERMIT(S))*				
DESCRIPTION		PERMIT NUMBER	EMISSION UNIT REFERENCE	EXPIRATION DATE
Polyurethane Foam Product		12345	32-5525	12/12/2003
Polyurethane Parts Fabrication		12346	32-5526	12/12/2003
Plastic Waste Disposal and Storage Tanks		12346	32-5527	12/12/2003
*NOTE: NOT APPLICABLE FOR FIRST SUBMITTALS.				
8. PERMIT REQUESTED FOR: INITIAL APPLICATION TO OPERATE: ☒ RELOCATION: ☐ MODIFICATION: ☐ REVISION (ADMINISTRATIVE AMENDMENTS): ☐ PERMIT RENEWAL: ☐				
9. OWNER'S REGISTERED AGENT FOR SERVICE OF PROCESS NAME: Temp International, Inc		TELEPHONE NUMBER WITH AREA CODE: (423) 313-2562		
ADDRESS 123 temp street		CITY: MORRISTOWN	STATE: TN	ZIP CODE: 37815-
10. IS THIS FACILITY SUBJECT TO THE PROVISIONS GOVERNING PREVENTION OF ACCIDENTAL RELEASES OF HAZARDOUS AIR CONTAMINANTS CONTAINED IN CHAPTER 1200-3-32 OF THE TENNESSEE AIR POLLUTION CONTROL REGULATIONS? [☒] YES [☐] NO IF THE ANSWER IS YES, ARE YOU IN COMPLIANCE WITH THE PROVISIONS OF CHAPTER 1200-3-32 OF THE TENNESSEE AIR				

State whether permit requested for initial application to operate.

FLTR

NUM

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DIVISION OF AIR POLLUTION CONTROL
9TH FLOOR, L&C ANNEX
401 CHURCH STREET
NASHVILLE, TN 37243-1531




 GO BACK
 GO NEXT
 

1. FACILITY NAME AND OWNER'S NAME IF DIFFERENT FROM THE FACILITY NAME

Example 1

2. PLEASE LIST, IDENTIFY AND DESCRIBE BRIEFLY EACH EMISSION UNIT THAT IS CONTAINED IN THIS APPLICATION. INCLUDE ALL FUGITIVE EMISSIONS. PLEASE ATTACH A FLOW DIAGRAM FOR THIS APPLICATION AND LABEL ALL EMISSION UNIT ID(S), EMISSION PROCESS ID(S) AND STACK ID/FUGITIVE ID(S) ON THE FLOW DIAGRAM.
NOTE: EACH PIECE OF FUEL-BURNING NON-PROCESS EQUIPMENT (V 4) SHOULD BE CONSIDERED AS AN INDIVIDUAL EMISSION UNIT.

NOTE: EACH PIECE OF FUEL-BURNING NON-PROCESS EQUIPMENT (V.4) SHOULD BE CONSIDERED AS AN INDIVIDUAL EMISSION UNIT.

	EMISSION UNIT ID	DESCRIPTION OF EMISSION UNIT	SIC UNIT LEVEL	NAICS UNIT LEVEL
▶	01	Polyurethane Foam Production	2821 ▼	325211 ▼
	02	Adhesive Spray Booths	2821 ▼	325211 ▼
	03	Plant Wide Storage and Process Tanks	2821 ▼	325211 ▼
	04	Insignificant Process	2851 ▼	325211 ▼
*			▼	▼

V2-APC

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NASHVILLE, TN 37243-1531



APC V.2

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MAJOR SOURCE OPERATING PERMIT APPLICATION - OPERATIONS AND FLOW DIAGRAMS (continued)

4. PLEASE LIST, IDENTIFY AND DESCRIBE BRIEFLY ALL EMISSION **PROCESSES** (e.g. FUEL BURNING EQUIPEMENT, INCINERATOR AND MISCELLANEOUS PROCESS) THAT CONTAINED IN THIS APPLICATION. ALSO INCLUDE ALL FUGITIVE EMISSION **PROCESSES**
**NOT APPLICABLE FOR FIRST APPLICATION SUBMITTALS

EMISSION UNIT ID	EMISSION PROCESS ID	STACK ID / FUGITIVE ID	DESCRIPTION OF EMISSION PROCESS	ASSIGNED PERMIT NUMBER**
01	EF-2	301a	ESR-01Foam Production: EF-2	-
01	EF-3	401a	ESR-01Foam Production: EF-3	-
01	EF-4	501	ESR-01Foam Production: EF-4	-
01	S-1	101	ESR-01Foam Production: S-1	-
02	S-2-6	102a	Adhesive Spray Booths	-
03	ED-1	301a	Open Burning	-
03	EF-1	101a	ESR-01Foam Production: EF-1	-
03	Fugi	103a	Fugitive from Storage and Process Tanks	-

5. LIST ALL INSIGNIFICANT EMISSION **PROCESSES** WHICH ARE EXEMPTED BECAUSE OF SIZE OR PRODUCTION RATE AND CITE THE APPLICABLE REGULATIONS.

EMISSION UNIT ID	EMISSION PROCESS ID	DESCRIPTION OF EMISSION PROCESS	REGULATION APPLIED
04	1	Dye Tanks	
04	2	Batch Room Operations	
04	3	Natural Gas Fired Boiler (<10 mmbtu/hr)	
04	4	Looper Rock Cutters	
04	5	Contour Cutters	
*			

6. ARE THERE ANY STORAGE PILES?

☒ YES☐ NO

7. LIST THE STATES THAT ARE WITHIN 50 MILES OF YOUR FACILITY

1) KENTUCKY

2) GEORGIA

Basic Summary of Site Information

SiteSummaryQuery

GO BACK GO NEXT QA/QC Summary

SUMMARY OF SITE INFORMATION

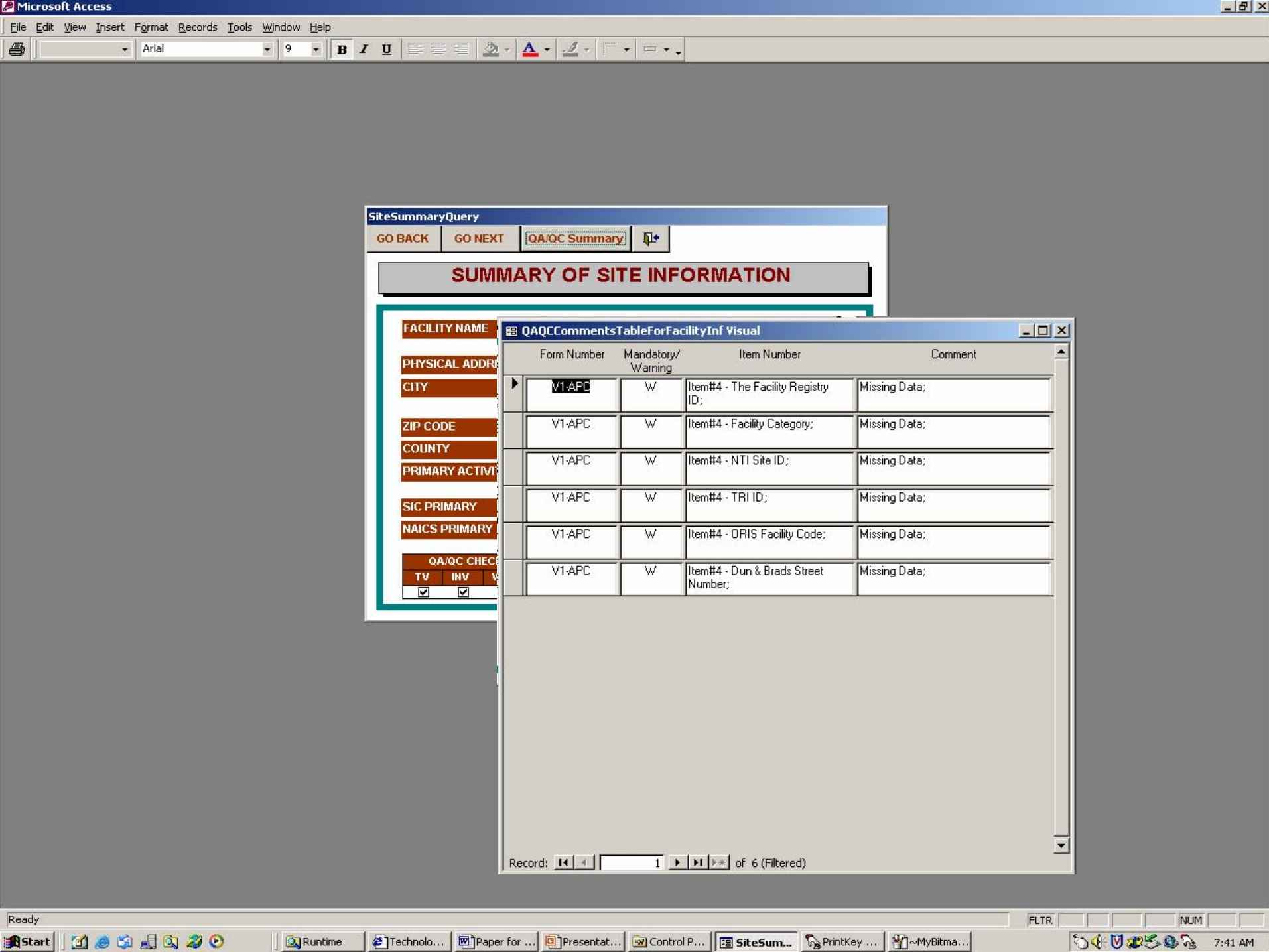
FACILITY NAME	Example 1
PHYSICAL ADDRESS	321 Temp Street
CITY	LEWISBURG
ZIP CODE	37091-
COUNTY	Marshall County, Tennessee
PRIMARY ACTIVITY	Rubber and miscellaneous products
SIC PRIMARY	2821
NAICS PRIMARY	325211

QA/QC CHECK		
TV	INV	WRN
☒	☒	☒

TV - Title V Permit Quality Check
INV - State Inventory Quality Check
WRN - Warning Message Quality Check

Provide a list of QA/QC errors

QA/QC Pass and Fail Indicator



Microsoft Access - [Mainform]

FileEditViewInsertFormatRecordsToolsWindowHelp

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GO BACK

GO NEXT

QA/QC Summary

OPERATIONS SWITCHBOARD

Facility Name

Example 1

Stacks Rename Wizard

EMISSION UNIT INFORMATION				EMISSION PROCESS INFORMATION				STACK/FUGITIVE INFORMATION				EMISSION INFORMATION													
EMISSION UNIT ID	FORM	QA/QC CHECK			PROCESS ID	DESCRIPTION OF EMISSION PROCESS	FORM	FORM NUMBER	QA/QC CHECK			Stack ID / Fugitive ID	FORM	HAVE FORM	QA/QC CHECK			RECORD INDICATOR	FORM	QA/QC CHECK				FORM	CONTROL FORM #1
		TV	INV	WRN					TV	INV	WRN				TV	INV	WRN			C 1	C 2	G	QC		
01	GO	☒	☒	☒	EF-2	ESR-01Foam Production: EF-2	GO	APCV5	☒	☐	☐	301a	GO	☒	☐	☐	☐	☐	GO	☐	☐	☐	☐	GO	
01	GO	☒	☒	☒	EF-3	ESR-01Foam Production: EF-3	GO	APCV6	☒	☒	☒	401a	GO	☒	☒	☒	☒	☒	GO	☒	☒	☒	☒	GO	APCV12
01	GO	☒	☒	☒	EF-4	ESR-01Foam Production: EF-4	GO		☐	☐	☐	501	GO	☐	☐	☐	☐	☒	GO	☐	☐	☐	☐	GO	
01	GO	☒	☒	☒	S-1	ESR-01Foam Production: S-1	GO	APCV8	☒	☐	☐	101	GO	☐	☐	☐	☐	☐	GO	☐	☐	☐	☐	GO	
02	GO	☒																	GO	☐	☐	☐	☐	GO	APCV18
03	GO	☒																	GO	☐	☐	☐	☐	GO	
03	GO	☒																	GO	☒	☒	☒	☒	GO	APCV17
03	GO	☒																	GO	☐	☐	☐	☐	GO	

V2-EmissionUnitSource Subform

Emission Unit Information

EMISSION UNIT ID	DESCRIPTION OF EMISSION UNIT	SIC UNIT LEVEL	NAICS UNIT LEVEL
01	Polyurethane Foam Production	2821	325211

A text description of a emission process.

FLTR

NUM

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Control P...

PrintKey ...

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Mainform

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QA/QC Summary

Facility Name Example 1

Stacks Rename Wizard

EMISSION UNIT INFORMATION					EMISSION PROCESS INFORMATION					STACK/FUGITIVE INFORMATION					EMISSION INFORMATION										
EMISSION UNIT ID	FORM	QA/QC CHECK			PROCESS ID	DESCRIPTION OF EMISSION PROCESS	FORM	FORM NUMBER	QA/QC CHECK			Stack ID / Fugitive ID	FORM	HAVE FORM	QA/QC CHECK			RECORD INDICATOR	FORM	QA/QC CHECK				FORM	CONTROL FORM #1
		TV	INV	WRN					TV	INV	WRN				TV	INV	WRN			C 1	C 2	G	QC		
01	GO	☒	☒	☒	EF-2	ESR-01Foam Production: EF-2	GO	APCV5	☒	☐	☐	301a	GO	☒	☐	☐	☐	GO	☐	☐	☐	☐	GO		
01	GO	☒	☒	☒	EF-3	ESR-01Foam Production: EF-3	GO	APCV6	☒	☒	☒	401a	GO	☒	☒	☒	☒	GO	☒	☒	☒	☒	GO	APCV12	
01	GO	☒	☒	☒	EF-4	ESR-01Foam Production: EF-4	GO		☐	☐	☐	501	GO	☐	☐	☐	☐	GO	☐	☐	☐	☐	GO		
01	GO	☒	☒	☒	S-1	ESR-01Foam Production								☐	☐	☐	☐	GO	☐	☐	☐	☐	GO		
02	GO	☒	☒	☒	S-2-6	Adhesive Spray Booths								☐	☐	☐	☐	GO	☐	☐	☐	☐	GO	APCV18	
03	GO	☒	☒	☒	ED-1	Open Burning								☐	☐	☐	☐	GO	☐	☐	☐	☐	GO		
03	GO	☒	☒	☒	EF-1	ESR-01Foam Production								☐	☐	☐	☐	GO	☒	☒	☒	☒	GO	APCV17	
03	GO	☒	☒	☒	Fugl	Fugitive from Storage an Process Tanks								☐	☐	☐	☐	GO	☐	☐	☐	☐	GO		

PROCESS SELECTION

PROCESS SELECTION

APC V.4 - FUEL BURNING NON-PROCESS EQUIPMENT

PROCESS SELECTION

APC V.4 - FUEL BURNING NON-PROCESS EQUIPMENT

APCV.5 - STATIONARY GAS TURBINE OR INTERNAL COMBUSTION ENGINE

APC V.6 - STORAGE TANKS

APC V.7 - INCINERATION

APC V.8 - PRINTING OPERATION

APC V.9 - PAINTING AND COATING OPERATION

APC V.10 - MISCELLANEOUS PROCESSES/FUGITIVE PROCESSES

APC V.34 - OPEN BURNING



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APC V.5

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**MAJOR SOURCE OPERATING PERMIT APPLICATION
STATIONARY GAS TURBINE OR INTERNAL COMBUSTION ENGINE**

1. FACILITY NAME: Example 1							
2. LIST ALL GAS TURBINES AND INTERNAL COMBUSTION ENGINES AT THIS FACILITY (PLEASE COMPLETE AN APC V5 FORM FOR EACH PIECE OF EQUIPMENT). <table border="1"><thead><tr><th colspan="2">EQUIPMENT NAME</th></tr></thead><tbody><tr><td>▶</td><td>1</td></tr><tr><td>✱</td><td></td></tr></tbody></table>		EQUIPMENT NAME		▶	1	✱	
EQUIPMENT NAME							
▶	1						
✱							
3. EMISSION UNIT ID: 01	4. EMISSION PROCESS ID: EF-2						
5. STACK ID: 301a	6. EQUIPMENT TYPE: ☒ GAS TURBINE ☐ INTERNAL COMBUSTION ENGINE						
7. EQUIPMENT DESCRIPTION: Gas Turbine #1							
8. DATE OF INSTALLATION OR LAST MODIFICATION OF EQUIPMENT: 1987	9. MANUFACTURER AND MODEL NUMBER: 1528-1214						
10. IF EQUIPMENT IS GAS TURBINE, LIST TYPE. ☒ SIMPLE CYCLE ☐ REGENERATIVE CYCLE ☐ COMBINED CYCLE	11. RATED HEAT INPUT CAPACITY (IN MILLION BTU/HOUR): 30000 RATED HORSEPOWER (IN MILLION BTU/HOUR): 300000 STATE WHICH HEATING VALUE WAS UTILIZED: ☐ HIGHER HEATING VALUE ☒ LOWER HEATING VALUE						
12. (FOR NSPS TURBINES ONLY) MANUFACTURER'S RATED HEAT RATE AT MANUFACTURER'S RATED PEAK LOAD (KILOJOULES PER WATT HOUR), OR ACTUAL MEASURED HEAT RATE BASED ON LOWER HEATING VALUE OF FUEL AS MEASURED AT ACTUAL PEAK LOAD FOR THE UNIT: -							

Specify manufacturer and model number of the equipment.

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Facility Name Example 1

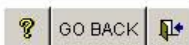
Stacks Rename Wizard

EMISSION UNIT INFORMATION					EMISSION PROCESS INFORMATION							STACK/FUGITIVE INFORMATION					EMISSION INFORMATION									
EMISSION UNIT ID	FORM	QA/QC CHECK			PROCESS ID	DESCRIPTION OF EMISSION PROCESS	FORM	FORM NUMBER	QA/QC CHECK			Stack ID / Fugitive ID	FORM	HAVE FORM	QA/QC CHECK			RECORD INDICATOR	FORM	QA/QC CHECK				FORM	CONTROL FORM #1	
		TV	INV	WRN					TV	INV	WRN				TV	INV	WRN			C	1	C	2			G
▶	01	GO	☑	☑	☑	EF-2	ESR-01Foam Production: EF-2	GO	APCV5	☑	☐	☐	301a	GO	⊙	☐	☐	☐	○	GO	☐	☐	☐	☐	GO	
	01	GO	☑	☑	☑	EF-3	ESR-01Foam Production: EF-3	GO	APCV6	☑	☑	☑	401a	GO	⊙	☑	☑	☑	⊙	GO	☑	☑	☑	☑	GO	APCV12
	01	GO	☑	☑	☑	EF-4	ESR-01Foam Production: EF-4	GO		☐	☐	☐	501	GO	○	☐	☐	☐	⊙	GO	☐	☐	☐	☐	GO	
	01	GO	☑	☑	☑	S-1	ESR-01Foam Production: S-1	GO	APCV8	☑	☐	☐	101	GO	○	☐	☐	☐	○	GO	☐	☐	☐	☐	GO	
	02	GO	☑	☑	☑	S-2-6	Adhesive Spray Booths	GO	APCV9	☐	☑	☐	102a	GO	⊙	☐	☐	☐	⊙	GO	☐	☐	☐	☐	GO	APCV18
	03	GO	☑	☑	☑	ED-1	Open Burning	GO	APCV34	☐	☑	☐	301a	GO	⊙	☑	☑	☑	○	GO	☐	☐	☐	☐	GO	
	03	GO	☑	☑	☑	EF-1	ESR-01Foam Production: EF-1	GO	APCV4	☑	☑	☑	101a	GO	⊙	☑	☑	☑	⊙	GO	☑	☑	☑	☑	GO	APCV17
	03	GO	☑	☑	☑	Fugl	Fugitive from Storage and Process Tanks	GO	APCV10	☐	☑	☐	103a	GO	⊙	☐	☐	☐	○	GO	☐	☐	☐	☐	GO	

A text description of a emission process.

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NUM



MAJOR SOURCE OPERATING PERMIT APPLICATION - STACK IDENTIFICATION/FUGITIVE IDENTIFICATION

1. FACILITY NAME: Example 1		FOR APC	APC COMPANY NO.				
2. STACK ID/FUGITIVE ID: 301a	3. EMISSION RELEASE POINT TYPE: VERTICAL	USE ONLY	LOG/PERMIT NO.				
4. STACK DESCRIPTION/FUGITIVE DESCRIPTION: Stack 301							
5. LOCATION OF THE STACK/FUGITIVE EMISSION IN LATITUDE/LONGITUDE COORDINATES: LATITUDE: 36.5 LONGITUDE: -81.9							
FOR EACH STACK, PLEASE COMPLETE NUMBERS 6 TO 19.							
6. STACK TYPE (MAIN/BYPASS): MAIN		7. STACK HEIGHT ABOVE GRADE IN FEET: 12					
8. VELOCITY (DATA AT EXIT CONDITIONS): 12 (ACTUAL FEET PER SECOND)		9. INSIDE DIMENSIONS AT OUTLET IN FEET: ☒ CIRCULAR DIAMETER: 12 T OR ☐ RECTANGULAR DIMENSION: FT X FT					
10. EXHAUST FLOWRATE AT EXIT CONDITIONS (ACFM): 1357.168		11. FLOW RATE AT STANDARD CONDITIONS (DSCFM): 121					
12. EXHAUST TEMPERATURE: 121 DEGREES FAHRENHEIT (°F)		13. MOISTURE CONTENT (DATA AT EXIT CONDITIONS): 1 PERCENT 112 GRAINS PER DRY STANDARD CUBIC FOOT (gr/dscf)					
14. EXHAUST TEMPERATURE THAT IS EQUALED OR EXCEEDED DURING NINETY (90) PERCENT OR MORE OF THE OPERATING TIME (FOR STACKS SUBJECT TO DIFFUSION EQUATIONS ONLY): 112 (°F)							
15. IF THIS STACK IS EQUIPPED WITH CONTINUOUS POLLUTANT MONITORING EQUIPMENT REQUIRED FOR COMPLIANCE, WHAT POLLUTANT(S) DOES THIS EQUIPMENT MONITOR (e.g., OPACITY, SO ₂ , NO _x , etc.)? <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Type of Monitor</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>				Pollutant	Type of Monitor		
Pollutant	Type of Monitor						
16. DO YOU HAVE A BYPASS STACK? GOTO BYPASS STACK FORM ☒ YES ☐ NO IF YES, DESCRIBE THE CONDITIONS WHICH REQUIRE ITS USE & COMPLETE APC FORM V.3 FOR THE BYPASS STACK. PLEASE IDENTIFY THE STACK NUMBER(S) OR FLOW DIAGRAM POINT NUMBER(S) EXHAUSTING THROUGH THIS BYPASS STACK.		17. DESCRIPTION OF THE CONDITIONS WHEN THE BYPASS STACK IS BEING USED: No need					
COMPLETE THE APPROPRIATE APC FORM(S) V.4, V.5, V.7, V.8, V.9 OR V.10 FOR EACH SOURCE EXHAUSTING THROUGH THIS STACK.							
FOR A FUGITIVE EMISSION, PLEASE COMPLETE NUMBER 18 AND NUMBER 19.							
18. FUGITIVE SOURCE DIMENSIONS: EQUIVALENT HORIZONTAL AREA: SQUARE FEET FUGITIVE RELEASE HEIGHT: FEET							

 [GO BACK](#) 

MAJOR SOURCE OPERATING PERMIT APPLICATION - STACK IDENTIFICATION/FUGITIVE IDENTIFICATION

Start Runtime Technolog... Paper for ... Presentat... Control P... PrintKey ... Mainform ~MyBitma... V3-APC (... 7:52 AM

QA/QC Summary

Facility Name Example 1

Stacks Rename Wizard

EMISSION UNIT INFORMATION					EMISSION PROCESS INFORMATION							STACK/FUGITIVE INFORMATION					EMISSION INFORMATION									
EMISSION UNIT ID	FORM	QA/QC CHECK			PROCESS ID	DESCRIPTION OF EMISSION PROCESS	FORM	FORM NUMBER	QA/QC CHECK			Stack ID / Fugitive ID	FORM	HAVE FORM	QA/QC CHECK			RECORD INDICATOR	FORM	QA/QC CHECK				FORM	CONTROL FORM #1	
		TV	INV	WRN					TV	INV	WRN				TV	INV	WRN			C	1	C	2			G
▶	01	GO	☑	☑	☑	EF-2	ESR-01Foam Production: EF-2	GO	APCV5	☑	☐	☐	301a	GO	⊙	☐	☐	☐	○	GO	☐	☐	☐	☐	GO	
	01	GO	☑	☑	☑	EF-3	ESR-01Foam Production: EF-3	GO	APCV6	☑	☑	☑	401a	GO	⊙	☑	☑	☑	⊙	GO	☑	☑	☑	☑	GO	APCV12
	01	GO	☑	☑	☑	EF-4	ESR-01Foam Production: EF-4	GO		☐	☐	☐	501	GO	○	☐	☐	☐	⊙	GO	☐	☐	☐	☐	GO	
	01	GO	☑	☑	☑	S-1	ESR-01Foam Production: S-1	GO	APCV8	☑	☐	☐	101	GO	○	☐	☐	☐	○	GO	☐	☐	☐	☐	GO	
	02	GO	☑	☑	☑	S-2-6	Adhesive Spray Booths	GO	APCV9	☐	☑	☐	102a	GO	⊙	☐	☐	☐	⊙	GO	☐	☐	☐	☐	GO	APCV18
	03	GO	☑	☑	☑	ED-1	Open Burning	GO	APCV34	☐	☑	☐	301a	GO	⊙	☑	☑	☑	○	GO	☐	☐	☐	☐	GO	
	03	GO	☑	☑	☑	EF-1	ESR-01Foam Production: EF-1	GO	APCV4	☑	☑	☑	101a	GO	⊙	☑	☑	☑	⊙	GO	☑	☑	☑	☑	GO	APCV17
	03	GO	☑	☑	☑	Fugl	Fugitive from Storage and Process Tanks	GO	APCV10	☐	☑	☐	103a	GO	⊙	☐	☐	☐	○	GO	☐	☐	☐	☐	GO	

A text description of a emission process.

FLTR

NUM

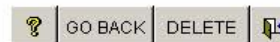


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APC V.28

**MAJOR SOURCE OPERATING PERMIT APPLICATION
EMISSIONS FROM EMISSION PROCESS**



1. FACILITY NAME: Example 1										
2. EMISSION UNIT ID: 01			3. PROCESS EMISSION ID: EF-3			4. STACK ID OR FUGITIVE ID 401a				
5. EMISSION TYPE: ☒ STACK EMISSIONS ☐ FUGITIVE EMISSIONS										
6. COMPLETE THE FOLLOWING EMISSIONS SUMMARY FOR REGULATED AIR POLLUTANTS THAT ARE HAZARDOUS AIR POLLUTANT(S). ATTACH CALCULATIONS AND EMISSION FACTOR REFERENCES.										
AIR POLLUTANT	MAXIMUM ALLOWABLE EMISSIONS		ACTUAL EMISSIONS		EMISSION CALCULATION METHOD	EMISSION FACTOR (EF)	EF NUMERATOR	EF DENOMINATOR	EF RELIABILITY INDICATOR	CONTROL EMISSION (Y/N)
	TON PER YEAR	RESERVED FOR STATE USE (POUNDS PER HOUR)	TON PER YEAR	RESERVED FOR STATE USE (POUNDS PER HOUR)						
7. PAGE NUMBER: 12 REVISION NUMBER: DATE OF REVISION: 11/11/1111										

CN-1007, 2-04-03 Version Page 1 of 2

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
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APC V.28

**MAJOR SOURCE OPERATING PERMIT APPLICATION
EMISSIONS FROM EMISSION PROCESS (continued)**

8. COMPLETE THE FOLLOWING EMISSIONS SUMMARY FOR REGULATED AIR POLLUTANTS.



Facility Name Example 1

Stacks Rename Wizard

EMISSION UNIT INFORMATION					EMISSION PROCESS INFORMATION							STACK/FUGITIVE INFORMATION					EMISSION INFORMATION									
EMISSION UNIT ID	FORM	QA/QC CHECK			PROCESS ID	DESCRIPTION OF EMISSION PROCESS	FORM	FORM NUMBER	QA/QC CHECK			Stack ID / Fugitive ID	FORM	HAVE FORM	QA/QC CHECK			RECORD INDICATOR	FORM	QA/QC CHECK				FORM	CONTROL FORM #1	
		TV	INV	WRN					TV	INV	WRN				TV	INV	WRN			C	1	C	2			G
▶	01	GO	☑	☑	☑	EF-2	ESR-01Foam Production: EF-2	GO	APCV5	☑	☐	☐	301a	GO	⊙	☐	☐	☐	○	GO	☐	☐	☐	☐	GO	
	01	GO	☑	☑	☑	EF-3	ESR-01Foam Production: EF-3	GO	APCV6	☑	☑	☑	401a	GO	⊙	☑	☑	☑	⊙	GO	☑	☑	☑	☑	GO	APCV12
	01	GO	☑	☑	☑	EF-4	ESR-01Foam Production: EF-4	GO		☐	☐	☐	501	GO	○	☐	☐	☐	⊙	GO	☐	☐	☐	☐	GO	
	01	GO	☑	☑	☑	S-1	ESR-01Foam Production: S-1	GO	APCV8	☑	☐	☐	101	GO	○	☐	☐	☐	○	GO	☐	☐	☐	☐	GO	
	02	GO	☑	☑	☑	S-2-6	Adhesive Spray Booths	GO	APCV9	☐	☑	☐	102a	GO	⊙	☐	☐	☐	⊙	GO	☐	☐	☐	☐	GO	APCV18
	03	GO	☑	☑	☑	ED-1	Open Burning	GO	APCV34	☐	☑	☐	301a	GO	⊙	☑	☑	☑	○	GO	☐	☐	☐	☐	GO	
	03	GO	☑	☑	☑	EF-1	ESR-01Foam Production: EF-1	GO	APCV4	☑	☑	☑	101a	GO	⊙	☑	☑	☑	⊙	GO	☑	☑	☑	☑	GO	APCV17
	03	GO	☑	☑	☑	Fugl	Fugitive from Storage and Process Tanks	GO	APCV10	☐	☑	☐	103a	GO	⊙	☐	☐	☐	○	GO	☐	☐	☐	☐	GO	

A text description of a emission process.

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	EMISSION INFORMATION						CONTROL EQUIPMENT						
CHECK	RECORD	FORM	QA/QC CHECK				FORM	CONTROL	FORM	CONTROL	FORM	C	
WRN	INDICATOR		C 1	C 2	G	QC		FORM #1		FORM #2		F	
	☒	○	GO	☐	☐	☐	☐	GO		GO		GO	
✓	☒	⊙	GO	☒	☒	☒	☒	GO	APCV12	GO	APCV11	GO	AF
	☐	⊙	GO	☐	☐	☐	☐	GO		GO		GO	
	☐	○	GO	☐	☐	☐	☐	GO		GO		GO	
	☐	⊙	GO	☐	☐	☐	☐	GO	APCV18	GO	APCV14	GO	AF
	☒	○	GO	☐	☐	☐	☐	GO		GO		GO	
	☒	⊙	GO	☒	☒	☒	☒	GO	APCV17	GO	APCV16	GO	AF
	☐	○	GO	☐	☐	☐	☐	GO		GO		GO	

PROCESS SELECTION

CONTROL EQUIPMENT
SELECTION

APC V.11 - MISCELLANEOUS CONTROL EQUIPMENT

APCV.12 - CONDENSERS

APC V.13 - ADSORBERS

APC V.14 - CATALYTIC OR THERMAL OXIDATION

APC V.15 - CYCLONES/SETTLING CHAMBERS

APC V.16 - ELECTROSTATIC PRECIPITATOR

APC V.17 - WET COLLECTION SYSTEMS

APC V.18 - BAGHOUSES/FABRIC FILTERS

APC V.33 - STAGE I AND II VAPOR RECOVERY

N K QC	EMISSION STATUS INFORMATION					
	STATUS INDICATOR	FORM	QA/QC CHECK			
			C 1	C 2	G	QC
☐	○	GO	☐	☐	☐	☐
☐	○	GO	☐	☐	☐	☐
☐	○	GO	☐	☐	☐	☐
☐	⊙	GO	☐	☒	☐	☐
☐	⊙	GO	☒	☒	☒	☒
☐	○	GO	☐	☐	☐	☐
☒	⊙	GO	☒	☒	☒	☒
☒	⊙	GO	☒	☒	☒	☒

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APC V.12



GO BACK

DELETE



**MAJOR SOURCE OPERATING PERMIT APPLICATION
CONTROL EQUIPMENT - CONDENSERS**

1. FACILITY NAME: Example 1			
2. EMISSION UNIT ID: 01		3. EMISSION PROCESS ID: EF-3	
4. STACK ID: 401a		5. CONTROL DEVICE TYPE: ELECTROSTATIC PRECIPITATOR - HIGH EFFICIENCY	
6. CONTROL DEVICE DESCRIPTION: ESP			
7. LIST THE KEY OPERATING PARAMETERS OF THIS DEVICE AND THEIR NORMAL OPERATING RANGE. (e.g., PRESSURE DROP, GAS FLOW RATE, TEMPERATURE): -			
8. MANUFACTURER AND MODEL NUMBER (IF AVAILABLE): -		9. YEAR OF INSTALLATION: 1238	
10. LIST OF POLLUTANT(S) TO BE CONTROLLED BY THIS EQUIPMENT AND THE EXPECTED CONTROL EFFICIENCY FOR EACH POLLUTANT.			
	POLLUTANT	POLLUTANT CAPTURE EFFICIENCY (%)	TOTAL CAPTURE CONTROL EFFICIENCY (%)
	PRIMARY PM, FILTERABLE PORTION ONLY	80	99
	PRIMARY PM10, FILTERABLE PORTION ONLY	60	97
11. DISCUSS HOW COLLECTED MATERIAL IS HANDLED FOR REUSE OR DISPOSAL. 12			
12. IS THIS CONTROL EQUIPMENT IN SERIES WITH SOME OTHER CONTROL EQUIPMENT? (PLEASE COMPLETE AN APPROPRIATE CONTROL EQUIPMENT FORM FOR EACH ADDITIONAL PIECE OF CONTROL EQUIPMENT). ☒ YES ☐ NO			
13. IF ANSWER IS YES IN ITEM #12 STATE THE OVERALL CONTROL EFFICIENCY: 21 (%) HOW MANY PIECES OF CONTROL EQUIPMENT ARE IN SERIES?: 3			

Form View NUM



Facility Name Example 1

Stacks Rename Wizard

EMISSION UNIT INFORMATION					EMISSION PROCESS INFORMATION							STACK/FUGITIVE INFORMATION					EMISSION INFORMATION									
EMISSION UNIT ID	FORM	QA/QC CHECK			PROCESS ID	DESCRIPTION OF EMISSION PROCESS	FORM	FORM NUMBER	QA/QC CHECK			Stack ID / Fugitive ID	FORM	HAVE FORM	QA/QC CHECK			RECORD INDICATOR	FORM	QA/QC CHECK				FORM	CONTROL FORM #1	
		TV	INV	WRN					TV	INV	WRN				TV	INV	WRN			C	1	C	2			G
▶	01	GO	☑	☑	☑	EF-2	ESR-01Foam Production: EF-2	GO	APCV5	☑	☐	☐	301a	GO	⊙	☐	☐	☐	○	GO	☐	☐	☐	☐	GO	
	01	GO	☑	☑	☑	EF-3	ESR-01Foam Production: EF-3	GO	APCV6	☑	☑	☑	401a	GO	⊙	☑	☑	☑	⊙	GO	☑	☑	☑	☑	GO	APCV12
	01	GO	☑	☑	☑	EF-4	ESR-01Foam Production: EF-4	GO		☐	☐	☐	501	GO	○	☐	☐	☐	⊙	GO	☐	☐	☐	☐	GO	
	01	GO	☑	☑	☑	S-1	ESR-01Foam Production: S-1	GO	APCV8	☑	☐	☐	101	GO	○	☐	☐	☐	○	GO	☐	☐	☐	☐	GO	
	02	GO	☑	☑	☑	S-2-6	Adhesive Spray Booths	GO	APCV9	☐	☑	☐	102a	GO	⊙	☐	☐	☐	⊙	GO	☐	☐	☐	☐	GO	APCV18
	03	GO	☑	☑	☑	ED-1	Open Burning	GO	APCV34	☐	☑	☐	301a	GO	⊙	☑	☑	☑	○	GO	☐	☐	☐	☐	GO	
	03	GO	☑	☑	☑	EF-1	ESR-01Foam Production: EF-1	GO	APCV4	☑	☑	☑	101a	GO	⊙	☑	☑	☑	⊙	GO	☑	☑	☑	☑	GO	APCV17
	03	GO	☑	☑	☑	Fugl	Fugitive from Storage and Process Tanks	GO	APCV10	☐	☑	☐	103a	GO	⊙	☐	☐	☐	○	GO	☐	☐	☐	☐	GO	

A text description of a emission process.

FLTR

NUM

V29-APC

APC V.29

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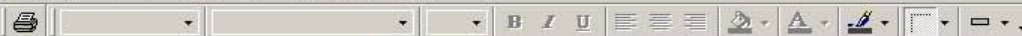


? GO BACK GO NEXT

MAJOR SOURCE OPERATING PERMIT APPLICATION
EMISSION SUMMARY FOR THE FACILITY OR FOR THE SOURCES CONTAINED IN THIS APPLICATION

1. FACILITY NAME:
Example 1
2. COMPLETE THE FOLLOWING EMISSIONS SUMMARY FOR REGULATED AIR POLLUTANTS THAT ARE HAZARDOUS AIR POLLUTANT (S) AT THIS FACILITY OR FOR THE SOURCES CONTAINED IN THIS APPLICATION.

AIR POLLUTANT	MAXIMUM ALLOWABLE EMISSIONS		ACTUAL EMISSIONS	
	TON PER YEAR	RESERVED FOR STATE USE (POUNDS PER HOUR) ITEM 7, APC V.30	TON PER YEAR	RESERVED FOR STATE USE (POUNDS PER HOUR) ITEM 8, APC V.30



V31-APC

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
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9TH FLOOR, L&C ANNEX
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APC V 31



**MAJOR SOURCE OPERATING PERMIT APPLICATION
COMPLIANCE PLAN AND COMPLIANCE CERTIFICATION**

1. FACILITY NAME: Example 1				
2. LIST ALL THE PROCESSES THAT ARE PART OF THIS APPLICATION. 				
3. INDICATE THAT SOURCE (S) WHICH ARE CONTAINED IN THIS APPLICATION ARE PRESENTLY IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS, BY CHECKING THE FOLLOWING: ☐ A. ATTACHED IS A STATEMENT OF IDENTIFICATION OF THE SOURCE (S) CURRENTLY IN COMPLIANCE. WE WILL CONTINUE TO OPERATE AND MAINTAIN THE SOURCE (S) TO ASSURE COMPLIANCE WITH ALL THE APPLICABLE REQUIREMENTS FOR THE DURATION OF THE PERMIT. ☒ B. APC V 30 FORM (S) INCLUDES NEW REQUIREMENTS THAT APPLY OR WILL APPLY TO THE SOURCE (S) DURING THE TERM OF THE PERMIT. WE WILL MEET SUCH REQUIREMENTS ON A TIMELY BASIS.				
4. INDICATE THAT THERE ARE SOURCE (S) THAT ARE CONTAINED IN THIS APPLICATION WHICH ARE NOT PRESENTLY IN FULL COMPLIANCE, BY CHECKING BOTH OF THE FOLLOWING: ☒ A. ATTACHED IS A STATEMENT OF IDENTIFICATION OF THE SOURCE (S) NOT IN COMPLIANCE, NON - COMPLYING REQUIREMENT (S), BRIEF DESCRIPTION OF THE PROBLEM, AND THE PROPOSED SOLUTION. ☐ B. WE WILL ACHIEVE COMPLIANCE ACCORDING TO THE FOLLOWING SCHEDULE: <table border="1"><thead><tr><th>ACTION</th><th>DEADLINE</th></tr></thead><tbody><tr><td></td><td></td></tr></tbody></table>	ACTION	DEADLINE		
ACTION	DEADLINE			
PROGRESS REPORTS WILL BE SUBMITTED: START DATE: 11/11/1111 AND EVERY 180 DAYS THEREAFTER UNTIL COMPLIANCE IS ACHIEVED.				
5. STATE THE COMPLIANCE STATUS WITH ANY APPLICABLE ENHANCED MONITORING AND COMPLIANCE CERTIFICATION REQUIREMENTS THAT HAVE BEEN PROMULGATED UNDER SECTION 114(a)(3) OF THE CLEAN AIR ACT AS OF THE DATE OF SUBMITTAL OF THIS APC FORM V.31. 				

?

GO BACK TO APC V31

DATA EXTRACTION WIZARD

+

FACILITY SUMMARY

FACILITY NAME

Example 1

Press

 Custom Page Number

Press

 Default Page Number

FORM NUMBER	NUMBER OF FORM	TITLE V PERMIT FORM QUALITY CHECK CRITERIA	EMISSION INVENTORY QAULTY CHECK CRITERIA	WARNING MESSAGE QAULTY CHECK CRITERIA	OPEN FORM FOR PRINTING
V1-APC	1				
V2-APC	1				
V2-APC(page2)	1				
V3-APC	5				
V3-APC (BYPASS)	1				
V4-APC	1				
V5-APC	1				
V6-APC	1				
V8-APC	1				
V9-APC	1				
V10-APC	1				
V34-APC	1				
V11-APC	1				
V12-APC	1				

ExtractionForm

File New Database

Save in:

Desktop

History

Desktop

My Documents

My Computer

My Network P...

My Documents

My Computer

My Network Places

AWMA 2004

extractservicepack

Forms

temp

ALCOA INC.NORTH PLANT-47009-0090_040305_PM.mdb

KANTUS CORP-47117-0061-_040206_PM.mdb

MSPIRS Preliminary1.mdb

NIFV3-TN-POINT-030825_

NIFV3-TN-POINT-FINAL_C

TN EMISSION INVENTORY

TNP.mdb

File name:

temp

Save as type:

Microsoft Access File(*.mdb)

Save

Cancel

8:03 AM

What is next?

- Create an emission summary report.
- Create a tool for emission fee calculation.

Questions ????

