











NSR LEAN Forms Update

January 10, 2013 Louis Corsino III SIPRAC January 2013



BACT Forms

- New BACT Forms were introduced at November 2012 SIPRAC Meeting
- The forms were sent out to SIPRAC email list in December 2012 and comments are due by January 17, 2013
- Direct all comments to Debola Bamgbose: adebola.bamgbose@ct.gov



NSR Forms

- As a result of our NSR LEAN event, it was found that our NSR forms did not provide the opportunity for the applicant to provide all information necessary to process an application in a timely manner.
- It was also noted that the forms were not user friendly and they presented challenges while filling them out.



History

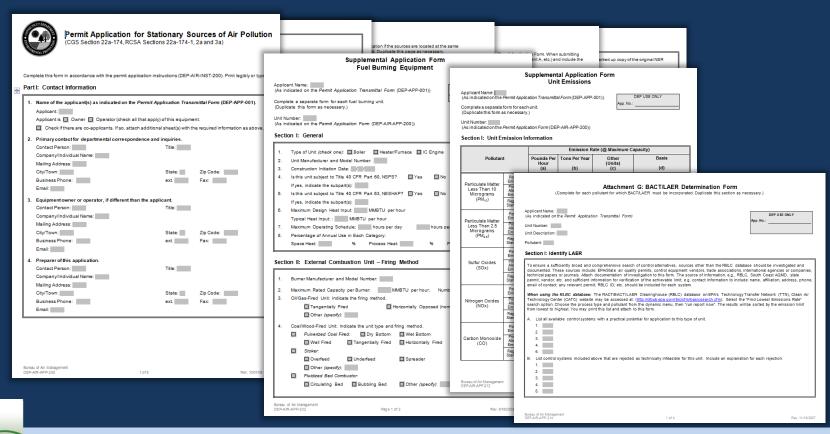
One Page Permit Application (Pre-CAA of 1990)

ERMIT APPLICATION FOR FUEL-BURNING EQUIPMENT STATE OF CONNECTICUT															
3: Department of Environmental Protection, Air Quality Section, Rm. 138, State Office Bldg., Hartford, Conn. 06115. Tel. 566-8230 1 001															
TYPE OF PERMIT	Check all PERMIT TO PERMIT TO REPLACEMENT ADDITION NEW INSTAL CHANGE OF OWNERSHIP ALTERATION														
FIRM	LEGAL NAME BUSINESS ADDRESS (No. & Sweet, City or Town) ZIP CODE PRIORE														
DIVISION	CONTRACT COST LAW COT IS COST OFFICE AND ASSESSMENT OF COST OS OF COST														
APPLICANT	attenting and the property of the latter to the property of th										100				
INSTALL'N															
INSTALL II	TYPE OF FOURSENT (s. o. Water Take Bullet) BURNER MODEL NO. AIR POLLUTION CONTROL EQUIPMENT USED (II "Yes,"														
	Water tube boiler Lens CL-4 Loo file form EPAC-25 Al											,			
	EQUIPMENT MANUFACTURER AND MODEL NO.							BURNER MANUFACTURER							
2000	Cleaver-	-Brooks Mod						Cleaver-Brooks							
EQUIPMENT	ESTIMATE 1	IHE	P OF CONSTRUCTIO	DN C		OF CONSTRUC	TION	START-UP OF SYSTEM							
ii oitmattoit	FOLLOWING D		5/85		12/8	55		11/85 IF APPLICABLE, PREVIOUS PERMIT -OR- REGISTRATION NO. FOR THIS SOURCE							
	Unknown at this time						N/A N/A								
				nor	ACHING GAS 1	TEMP		TYPE OF DRAF				2,68 Oi	1		
	EXHAUST GA	oil 10,481	23,696		540Feve	E		NATU		INDUCE	D X FORCE	2.81 in W	.c. Gas		
CONDITIONS	FLOW RATE (AC	HOURS PER	23,708	YEAR STAG	470F	P3									0.0000
CONDITIONS	OPERATING HOL	JRS: 1 24	8,76		390F G		PER CE	ENT CO:	At normal	load		At maximum	load		
			SULFUL SULF			T.	NITROGEN	ANNUAL	-	MAXIMUM FIRI	NG RATE	SEASON	IAL U	SE	
ypical	FUEL	GRADES	CONTENT C		DEG. API	VISCOSI		CONTENT	(Tons, Guls.	or CuFt.)	(Lbs,Gals,Cu.F1./hr)	(BTU/hr.)	Month	to M	onth
alysis"		Bituminous	. %	. %		Specify un	iits %							-	TERROR.
>	COAL	Anthrocite	. %	. %	€ 60°F	& temp				-				-	
	Z _	Kerosene	. %	. %										-	
TYPES OF UELS USED	OIL	2	0.5 %	Neg %	30	38 SS	U	· Nea %			451 gph	64 x 106		-	
DEL'S DZED	or	4	. %	. %				. %							
		5	. %	. %				. %						-	
1	_	6	. %	· %	awmaamaa l		medamo em	iouwanawa				66 0 106		-	
	NAT. GAS	454200.520000	Company of the State of the Sta				rillitetir lillihad			66,301 SCFH	66.3XIO		-		
*	OTHER													1-1	
TYPE OF RN. CONT'L.	ON-OFF OFF MIGH-LOW- X MODULATING FULL METERING AND PROPORTIONING OTHER Single Point Positioning														
TYPE OF HL BURNER	PRESSURE ROTARY STEAM AIR OTIER STEAM ATOMIZER ATOMIZER 13. If any special design is utilized to reduce air pollution, please describe on a separate sheet of paper.														
	No. of sampling ports Nearest distance from sampling port to DOWNSTREAM ((L.)							UPSTREAM (ft.) 15. LIST OTHER SOURCES VEHTED TO STACK							
	provided: 0 stack outlet, bend or obstruction:							None (II) IS STACKEQUIPED WITH PARHATT 16. Are you submitting documentation of stack emissions?							
STACK FORMATION	STACK EXIT DIRECTION STACK EXIT DIMENSIONS STACK HEIGHT (I							YES NO YES NO							
	SMAKE HIGHCATOR IN STACK MAKE AND MODEL NO. OF HIGHCATOR YES NO Preferred-Rimcor Model JC30F-5 STACK LINING STACK LINING STACK LINING STACK LINING STACK LINING STACK LINING										*				
STACK -	Name of nearest Distance to stack +/- 2,000 DIRECTION (Circle case)														
LOCATION	intersecting street: FT. TO STACK: N. NE, E. SE, S. SW, N. NW									1					
CERTIFI-	I carrily that I have examined the above information and that to the best of my									6-					
CATION	the General Statutes regarding false and misleading statements.)									/85					
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History

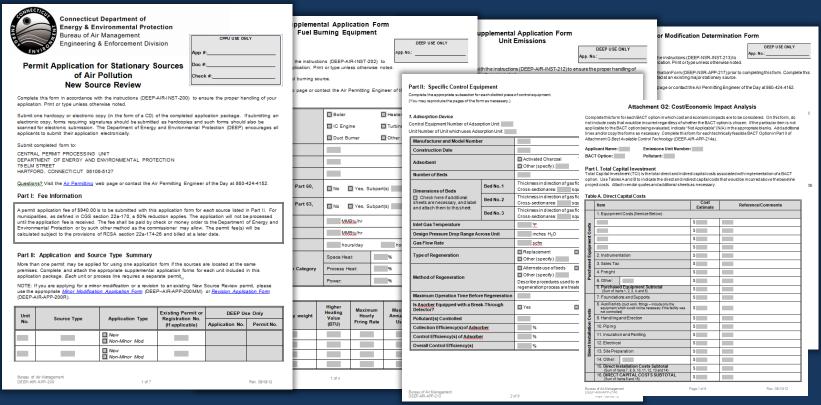
- Mid-1990s 2012 (Post-CAA of 1990)
 - Expanded Application forms in order to ensure new sources comply with various new regulatory requirements





Today

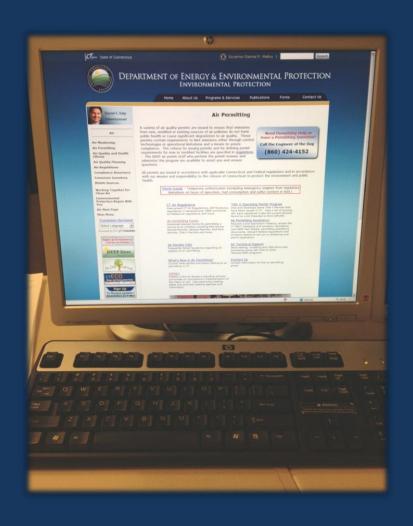
2013 – Improved and more complete application





Future

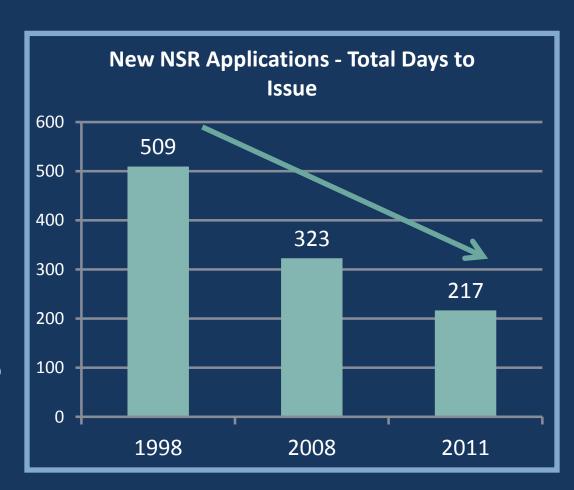
- Our Ideal State full online submittal of applications
- Automatic sufficiency checks
- Electronic Workflow
- The refreshing of our forms now allows us to be ready for the future online permitting system being developed





Goal of Updated Forms

- The goal is to issue better permits faster.
- We need to
 eliminate as much
 "non-DEEP" time as
 possible.
 - Insufficiency and Additional or Missing Info Requests





What Did We Do?

- Updated to make forms more user friendly
- Reorganized visually and logically
- Refined and expanded supplemental forms where needed
- Consistent language across all forms
- Attachment checklist at the end of each form, if necessary.



Examples of Updated Forms

Supplemental Application Form Fuel Burning Equipment									
Applicant Name: (As indicated on the Permit Application Transmittal Form (DEP-APP-001)) App. No.:									
Complete a separate form for each fuel burning unit. (Duplicate this form as necessary.)									
Unit Number: (As indicated on the <i>Permit Application Form</i> (DEP-AIR-APP-200))									
Section I: General									
 Type of Unit (check one): Boiler									
Space Heat: % Process Heat: % Power: %									
Section II: External Combustion Unit – Firing Method									
Burner Manufacturer and Model Number: Maximum Rated Capacity per Burner: MMBTU per hour; Number of Burners:									
Maximum Rated Capacity per Burner. Minib Lo per Hour, Number of Burners. Oil/Gas-Fired Unit: Indicate the firing method.									

	Supplemental Application Form Fuel Burning Equipment								
	pplicant Name: Init No.:	DEEP USE ONLY App. No.:							
Complete this form in accordance with the instructions (DEEP-AIR-INST-202) to ensure the proper handling of your application. Print or type unless otherwise noted.									
C	Complete a separate form for each fuel burning source.								
Ĉ	Questions? Visit the Air Permitting web page or contact the Air Permitting Engineer of the Day at 860-424-4152.								
+	Part I: General								
		☐ Boiler ☐ Heater/Furnace							
	Type of Unit (Check one)	☐ IC Engine ☐ Turbine							
		☐ Duct Burner ☐ Other (specify):							
	Manufacturer and Model Number								
	Construction Date								
	Manufacture Date								
	Is this unit subject to Title 40 CFR Part 60, NSPS?	□ No □ Yes, Subpart(s)							
	Is this unit subject to Title 40 CFR Part 63, MACT?	□ No □ Yes, Subpart(s)							
	Maximum Design Heat Input	MMBtu/hr							
	Typical Heat Input	MMBtu/hr							
	Maximum Operating Schedule	hours/day hours/year							
		Space Heat: %							
	Percentage of Annual Use in Each Category	Process Heat: %							

Before

After



Examples of Updated Forms

Supplemental Application Form Unit Emissions

Applicant Name: (As indicated on the Permit Application Transmittal Form (DEP-APP-001))

DEP USE ONLY App. No.:

Complete a separate form for each unit. (Duplicate this form as necessary.)

Jnit Number

(As indicated on the Permit Application Form (DEP-AIR-APP-200))

Section I: Unit Emission Information

		Emission Rate (@ Maximum Capacity)						
Pollutan	t	Pounds Per Hour (a)	Tons Per Year (b)	Other (Units) (c)	Basis (d)			
Particulate Matter	Potential Emissions							
Less Than 10 Micrograms	Proposed Allowable Emissions							
(PM ₁₀)	Regulatory Standard(s)							
Particulate Matter	Potential Emissions							
Less Than 2.5 Micrograms	Proposed Allowable Emissions							
(PM _{2.5})	Regulatory Standard(s)							
	Potential Emissions							
Sulfur Oxides (SOx)	Proposed Allowable Emissions							
	Regulatory Standard(s)							
	Potential Emissions							
Nitrogen Oxides (NOx)	Proposed Allowable Emissions							
	Regulatory Standard(s)							

Supplemental Application Form Unit Emissions

Applicant Name: Unit No.:

DEEP USE ONLY

Complete this form in accordance with the instructions (DEEP-AIR-INST-212) to ensure the proper handling of your application. Print or type unless otherwise noted.

Questions? Visit the Air Permitting web page or contact the Air Permitting Engineer of the Day at 860-424-4152.

Part I: Unit Emission Information

4	⊕										
	Pollutant		missions at n Capacity	Proposed Allowable Emissions							
		lb/hr	tp.y.	lb/hr	Other Units (specify)	tpy					
	Criteria Air Pollutants										
	PM ₁₀										
	PM _{2.5}										
	SOx										
	NOx										
	CO										
	VOC										
	<u>Pb</u>										
	GHG										
	Hazardous Air Pollutants										

Before

After



Example of Updated Forms

(e.g., HVLP gun, etc.). This information can be obtained from the manufacturer.

- 3a. Transfer Efficiency If using a spray applicator, indicate an estimated transfer efficiency of the applicator. Transfer efficiency is the ratio of amount of solids sprayed from the applicator that there's to the part being coated. Provide documentation to support this. This information can be obtained from the manufacturer.
- 3b. Tank Dimensions If using a dip tank, indicate the tank dimensions in feet and its

anticipated amount of each solvent used, in gallons per hour, gallons per day, and gallons per year. If additional space is needed to answer this item, attach a separate sheet as necessary, clearly identifying the applicant name, form name and item number, and applicator identificat in number. Attach a Material Safety Data Sheet for each solvent. These forms are available from the supplier or are shipped with the chemical when it is purchased.

6a. Temperature of Coating or Ink Material as

Before

Attachments buried in instructions

Part VIII: Attachments

Please check the attachments being submitted as verification that all applicable attachments have been submitted with this application form. When submitting such documents, please label the documents as indicated in this Part (e.g., Attachment 205A, etc.) and be sure to include the applicant's name.

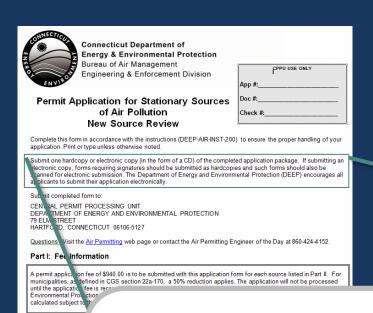
- Attachment 205A: Process Information and Flow Diagram Submit a process flow diagram indicating all related equipment, air pollution control equipment and stacks, as applicable. Identify all materials entering and leaving each such device indicating quantities and parameters relevant to the proper operation of the device. Indicate all monitoring devices and controls. REQUIRED
- Attachment 205B: Manufacturer Information Submit copies of the manufacturer specification sheets for the unit, the air pollution control equipment and the monitoring systems. REQUIRED
- Attachment 205C: Transfer Efficiency Information If using a spray applicator, submit the manufacturer specification sheets for the transfer efficiency of such spray applicator. IF APPLICABLE
- Attachment 205D: Material Safety Data Sheets Submit a Material Safety Data Sheet for each coating, diluent, and solvent used by this unit, REQUIRED

After

Attachments clearly defined on form itself



Example of Updated Forms



Electronic Submittal of Application Materials

Submit one hardcopy or electronic copy (in the form of a CD) of the completed application package. If submitting an electronic copy, forms requiring signatures should be submitted as hardcopies and such forms should also be scanned for electronic submission. The Department of Energy and Environmental Protection (DEEP) encourages all applicants to submit their application electronically



New/Revised Forms

- Premises Information Form (NEW)
- Major Modification Form (EXISTING)
- PSD Review Form (NEW)
- Non-Attainment Form (NEW)



Premises Information Form

- Currently we do not know what equipment exists at a non-Title V/GPLPE site due to Sections -3b and -3c.
- Form allows us to obtain an accurate snapshot of the current premises potential emissions.
- GPLPE sources do not have to complete the form.
- Title V sources only need to provide their current potential emissions.



Premises Information Form

- Will obtain potential emissions for:
 - Permitted units
 - Registered units
 - Permit by Rule sources (-3b, -3c)
 - Sources that do not trigger permit applicability
 - Premises wide annual emission limitations in NSR permits or orders
- Final part of form will direct applicant to fill out other required forms (Major Mod, PSD, Non-Attainment)



Major Modification Form

- Updated to include an applicability section.
- The major modification calculation worksheet has been separated as this needs to be completed for each applicable pollutant.
- A table on the main form summarizes the results from the calculation sheets and directs the applicant to additional forms to be completed



Non-Attainment and PSD Forms

- Applicability section
- List of required attachments.
- Because no forms previously existed for these reviews previously, it was common for some of these required attachments to be missing in a permit application.



Request for Volunteers

 Looking for 3-4 volunteers with previous major NSR application experience to review the new Premises Information, Major Mod, PSD and Non-Attainment Forms.

 If interested send email to louis.corsino@ct.gov



Questions?

Louis J. Corsino III
APCE II
louis.corsino@ct.gov
860-424-3544
www.ct.gov/deep/airpermits

