STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF AIR POLLUTION CONTROL

NOT TO BE USED FOR TITLE V APPLICATIONS

9th Floor, L & C Annex
401 Church Street
Nashville, TN 37243-1531
Telephone: (615) 532-0554
FAX: (615) 532-0614

PERMIT APPLICATION

APC 20

PLEASE TYPE OR PRINT AND SUBMIT IN DUPLICATE FOR EACH EMISSION SOURCE. ATTACH APPROPRIATE SOURCE DESCRIPTION FORMS.

1. **ORGANIZATION'S LEGAL NAME** Lowe's Home Center's, Inc.		/ / / FOR	APC COMPANY--POINT NO. 72-0129-01
2. **MAILING ADDRESS** (ST/RD/P.O. BOX) P.O. Box 1111		/ / / APC	APC LOG/PERMIT NO. 62054
CITY North Wilkesboro	STATE NC	ZIP CODE 28656-0001	PHONE WITH AREA CODE 336-658-2181
3. **PRINCIPAL TECHNICAL CONTACT** Melissa Call			PHONE WITH AREA CODE 336-658-2181
4. **SITE ADDRESS** (ST/RD/HWY) 3535 RHEA COUNTY HWY. ~~2324 West Stone Drive~~			COUNTY NAME Rhea
CITY OR DISTANCE TO NEAREST TOWN Dayton		ZIP CODE 37321	PHONE WITH AREA CODE 423-775-8914
5. **EMISSION SOURCE NO.** (NUMBER WHICH UNIQUELY IDENTIFIES THIS SOURCE) E01		PERMIT RENEWAL YES ( ) NO (X)	

6. **BRIEF DESCRIPTION OF EMISSION SOURCE**

350 KW Emergency Generator at Lowe's retail facility.

7. **TYPE OF PERMIT REQUESTED**

CONSTRUCTION (X)	STARTING DATE 11/14/07	COMPLETION DATE 11/14/07	LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER
OPERATING ( )	DATE CONSTRUCTION STARTED	DATE COMPLETED	LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER
LOCATION TRANSFER ( )	TRANSFER DATE		LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER

ADDRESS OF LAST LOCATION

8. **DESCRIBE CHANGES THAT HAVE BEEN MADE TO THIS EQUIPMENT OR OPERATION SINCE THE LAST CONSTRUCTION OR OPERATING PERMIT APPLICATION.**

Installation of 350 KW Diesel Emergency Backup Generator

9. **SIGNATURE** (APPLICATION MUST BE SIGNED BEFORE IT WILL BE PROCESSED) W. Layne Adams		**DATE** 5/30/08
10. **SIGNER'S NAME** (TYPE OR PRINT) W. Layne Adams, Jr.	**TITLE** VP Retail Facility Management	**PHONE WITH AREA CODE** 336-658-2181

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2009 SEP 22 PM 2: 50

EMISSION POINT DESCRIPTION

APC 22

PLEASE TYPE OR PRINT AND SUBMIT IN DUPLICATE FOR EACH STACK OR EMISSION POINT.
ATTACH TO THE PERMIT APPLICATION.

1. **ORGANIZATION NAME** Lowe's of Dayton, TN (#2866)				/ / / FOR	APC COMPANY POINT NO.
2. **EMISSION SOURCE NO.** (FROM APPLICATION) E01		FLOW DIAGRAM POINT NUMBER		/ / / APC	APC SEQUENCE NO.
3. **LOCATION:**	LATITUDE 35.464 N	LONGITUDE 85.041 W	UTM VERTICAL		UTM HORIZONTAL
4. **BRIEF EMISSION POINT DESCRIPTION** (ATTACH A SKETCH IF APPROPRIATE): Exhaust vent on emergency generator					DISTANCE TO NEAREST PROPERTY LINE (FT) 50

COMPLETE LINES 5 AND 6 IF DIFFERENT FROM THAT ON THE PROCESS OR FUEL BURNING SOURCE DESCRIPTION (APC 21)

5. **NORMAL OPERATION:**	HOURS/DAY	DAYS/WEEK	WEEK/YEAR		DAYS/YEAR
6. **PERCENT ANNUAL THROUGHPUT:**	DEC.-FEB.	MARCH-MAY	JUNE-AUG.		SEPT.-NOV.
7. **STACK OR EMISSION POINT DATA:**	HEIGHT ABOVE GRADE (FT) 6	DIAMETER (FT) 0.66	TEMPERATURE (°F) 865	% OF TIME OVER 125°F 100	DIRECTION OF EXIT (UP, DOWN OR HORIZONTAL) Up
DATA AT EXIT CONDITIONS:	FLOW (ACTUAL FT^3/MIN.) 3080	VELOCITY (FT/SEC)	MOISTURE (GRAINS/FT^3)		MOISTURE (PERCENT)
DATA AT STANDARD CONDITIONS:	FLOW (DRY STD. FT^3/MIN) 3080	VELOCITY (FT/SEC)	MOISTURE (GRAINS/FT^3)		MOISTURE (PERCENT)

8. **AIR CONTAMINANTS**	ACTUAL EMISSIONS						
	EMISSIONS (LBS/HR)		CONCENTRATION	AVG. EMISSIONS (TONS/YR)	EMISSIONS* EST. METHOD	CONTROL DEVICES*	CONTROL EFFICIENCY%
	AVERAGE	MAXIMUM					
PARTICULATES		0.085	**	0.021	man. data*		
SULFUR DIOXIDE		0.094	***	0.024	man. data*		
CARBON MONOXIDE		0.57	PPM	0.14	man. data*		
ORGANIC COMPOUNDS			PPM				
NITROGEN OXIDES		3.7	PPM	0.92	man. data*		
FLUORIDES							
OTHER(SPECIFY) Hydrocarbons		0.028		0.0069	man. data*		
OTHER(SPECIFY)							

* Emissions estimated from manufacturer's emissions data.

(OVER)

9. CHECK TYPES OF MONITORING AND RECORDING INSTRUMENTS THAT ARE ATTACHED:
OPACITY MONITOR ( ), SO2 MONITOR ( ), NOX MONITOR ( ), OTHER (SPECIFY IN COMMENTS) ( )

10. COMMENTS

Installation of one 350 KW Emergency Generator Used only during power failure. Fuel Usage and Emissions estimates based on a maximum of 500 hours/year of usage.
Engine is US Nonroad Tier3 Certified.

11. SIGNATURE	DATE
W. Layne Adams Jr.	9/17/2009

* REFER TO THE BACK OF THE PERMIT APPLICATION FORM FOR ESTIMATION METHOD AND CONTROL DEVICE CODES.

** EXIT GAS PARTICULATE CONCENTRATION UNITS: PROCESS — GRAINS/DRY STANDARD FT3 (70°F); WOOD FIRED BOILERS — GRAINS/DRY STANDARD FT3 (70°F); ALL OTHER BOILERS — LBS/MILLION BTU HEAT INPUT.

*** EXIT GAS SULFUR DIOXIDE CONCENTRATIONS UNITS: PROCESS — PPM BY VOLUME, DRY BASES; BOILERS — LBS/MILLION BTU HEAT INPUT.

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PROCESS OR FUEL BURNING SOURCE DESCRIPTION

APC21(& 24)

PLEASE TYPE OR PRINT, SUBMIT IN DUPLICATE AND ATTACH TO THE PERMIT APPLICATION.

1. ORGANIZATION NAME Lowe's of Dayton, TN (#2866)		/ / / FOR	APC COMPANY-POINT NO. 72-0129-01
2. EMISSION SOURCE NO. (AS ON PERMIT APPLICATION) E01	SIC CODE	/ / / APC	APC PERMIT/LOG NO. 62054

3. DESCRIPTION OF PROCESS OR FUEL BURNING UNIT

350 KW Diesel Emergency Generator

4. NORMAL OPERATION: →	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	DAYS/YEAR Max 500 hours/year
5. PERCENT ANNUAL THROUGHPUT: →	DEC.-FEB. 25	MARCH-MAY 25	JUNE-AUG. 25	SEPT.-NOV. 25

6. TYPE OF PERMIT APPLICATION	(CHECK BELOW ONE ONLY)
PROCESS SOURCE: APPLY FOR A SEPARATE PERMIT FOR EACH SOURCE. (CHECK AT RIGHT, AND COMPLETE LINES 7, 8, 13, AND 14).	( )
PROCESS SOURCE WITH IN-PROCESS FUEL: PRODUCTS OF COMBUSTION CONTACT MATERIALS HEATED. APPLY FOR A SEPARATE PERMIT FOR EACH SOURCE. (CHECK AT RIGHT, AND COMPLETE LINES 7, 8, AND 10 THROUGH 14)	( )
NON-PROCESS FUEL BURNING SOURCE: PRODUCTS OF COMBUSTION DO NOT CONTACT MATERIALS HEATED. COMPLETE THIS FORM FOR EACH BOILER OR FUEL BURNER AND COMPLETE AN EMISSION POINT DESCRIPTION FORM (APC 22) FOR EACH STACK. (CHECK AT RIGHT, AND COMPLETE LINES 9 TO 14)	(X)

7. TYPE OF OPERATION: CONTINUOUS, ( )	BATCH ( )	NORMAL BATCH TIME	NORMAL BATCHES/DAY

8. PROCESS MATERIAL INPUTS AND IN-PROCESS SOLID FUELS	DIAGRAM* REFERENCE	INPUT RATES (POUNDS/HOUR) DESIGN	ACTUAL	/ /	(FOR APC USE ONLY) SCC CODE
A.				/ /	
B.				/ /	
C.				/ /	
D.				/ /	
E.				/ /	
F.				/ /	
G.				/ /	
	TOTALS			/ /	

* A SIMPLE PROCESS FLOW DIAGRAM MUST BE ATTACHED.

(OVER)

APC 21 (& 24)

3,283

9. BOILER OR BURNER DATA: (COMPLETE LINES 9 TO 14 USING A SEPARATE FORM FOR EACH BOILER)

BOILER NUMBER	STACK NUMBER**	TYPE OF FIRING***	RATED BOILER HORSEPOWER	RATED INPUT CAPACITY (10^6 BTU/HR)	OTHER BOILER RATING (SPECIFY CAPACITY AND UNITS)
	E01	Internal Combustion	469	1.2	

BOILER SERIAL NO.	DATE CONSTRUCTED	DATE OF LAST MODIFICATION (EXPLAIN IN COMMENTS BELOW).
2166768	8/20/07	

** BOILERS WITH A COMMON STACK WILL HAVE THE SAME STACK NUMBER.
*** CYCLONE, SPREADER (WITH OR WITHOUT REINJECTION), PULVERIZED (WET OR DRY BOTTOM, WITH OR WITHOUT REINJECTION), OTHER STOKER (SPECIFY TYPE), HAND FIRED, AUTOMATIC, OR OTHER TYPE (DESCRIBE BELOW IN COMMENTS).

10. FUEL DATA: (COMPLETE FOR A PROCESS SOURCE WITH IN-PROCESS FUEL OR A NON-PROCESS FUEL BURNING SOURCE)

PRIMARY FUEL TYPE (SPECIFY) Diesel Fuel

STANDBY FUEL TYPE(S) (SPECIFY)

FUELS USED	ANNUAL USAGE	HOURLY USAGE DESIGN	HOURLY USAGE AVERAGE	% SULFUR	% ASH	BTU VALUE OF FUEL		(FOR APC ONLY) SCC CODE
NATURAL GAS:	10^6 CUFT	CUFT	CUFT	/ / / / / / / /	/ / / / / /	1,000		
#2 FUEL OIL:	10^3 GAL 10	GAL ~~21.5~~ 25.5	GAL ~~21.5~~ 25.5		/ / / / / /			
#5 FUEL OIL:	10^3 GAL	GAL	GAL		/ / / / / /			
#6 FUEL OIL:	10^3 GAL	GAL	GAL		/ / / / / /			
COAL:	TONS	LBS	LBS					
WOOD:	TONS	LBS	LBS	/ / / / / / / /	/ / / / / /			
LIQUID PROPANE:	10^3 GAL	GAL	GAL	/ / / / / / / /	/ / / / / /	85,000		
OTHER (.SPECIFY TYPE & UNITS.):								

11. IF WOOD IS USED AS A FUEL, SPECIFY TYPES AND ESTIMATE PERCENT BY WEIGHT OF BARK

12. IF WOOD IS USED WITH OTHER FUELS, SPECIFY PERCENT BY WEIGHT OF WOOD CHARGED TO THE BURNER.

13. COMMENTS

Installation of one 350 KW Emergency Generator Used only during power failure. Fuel Usage and Emissions estimates based on 500 hours/year of usage.

14. SIGNATURE W. Layne Adams Jr.

DATE 5/30/08