VEM-003
3/95

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF NEW SOURCE REVIEW

APPLICATION FOR
PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT
AND
CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

TO: New Jersey Department of Environmental Protection
Bureau of New Source Review
CN 027, Trenton, N.J. 08625-0027

Read Instructions Before Completing Application

SECTION A

1. Full Business Name: Parkway Iron & Metal Co., Inc. T.A. American Shredding Industries
2. Mailing Address: P.O. Box 2399, Clifton, Passaic County, NJ 07015
   (No. / Street / City / County (if NJ) / State / Zip Code)
3. Division and/or Plant Name: American Shredding Industries
4. Plant Location: 613-639 (No.) Route 46 East (Street) Clifton (City) Passaic (County)
5. Location of Equipment on Premises (bldg., dept., area, etc.): Shredder is housed in bldg toward rear.

SECTION B

REASON FOR APPLICATION *(Check One)*

- [ ] New Equipment without Control Apparatus
- [X] New Equipment with Control Apparatus
- [ ] New Control Apparatus on Existing Equipment
- [ ] Other (Explain)
- [ ] Modification to Existing Equipment
- [ ] Modification to Existing Control Apparatus
- [ ] Five Year Renewal of Cert. No. ____ (Note: Complete 5 & 6 below)

1. Nature of Business: Automobile & Metal Shredding & Product Separation for Recycling
2. Estimated Starting Date of Construction: In operation.
3. Date Equipment to be put in use: March 3, 1995
4. Plant Contact: Alan Shapiro (Name (print or type)) President (Title) (201) 340-3535 (Telephone No.)
5. APC Plant ID: N/A 3/125
6. NJ Stack #: N/A

SECTION C

STACK INFORMATION (EQUIVALENT STACK INFORMATION)

1. Company Designation of Stack(s): No Stack - Conveyor Fugitive Emissions Only
2. Previous Certificate Numbers (if any for this stack): None
3. a. Number of Sources Venting to this Stack: 2 (Complete a separate VEM-004 for each source)
   b. Number of Stacks Venting Source Operation(s): 1 (Complete a separate VEM-003 for each stack)
4. Distance to the nearest Property Line (ft.): 125
5. Stack Diameter (inches): No stack
6. Discharge Height Above Ground (ft.): Max 28'
7. Exit Temperature of Stack Gases: Ambient
8. Vol. of Gas Discharged at Stack Conditions (ACFM): Fugitive
9. Discharge Directions: [X] Horizontal [ ] Up [ ] Down

I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties, including fines or imprisonment or both, for submitting false, inaccurate or incomplete information.

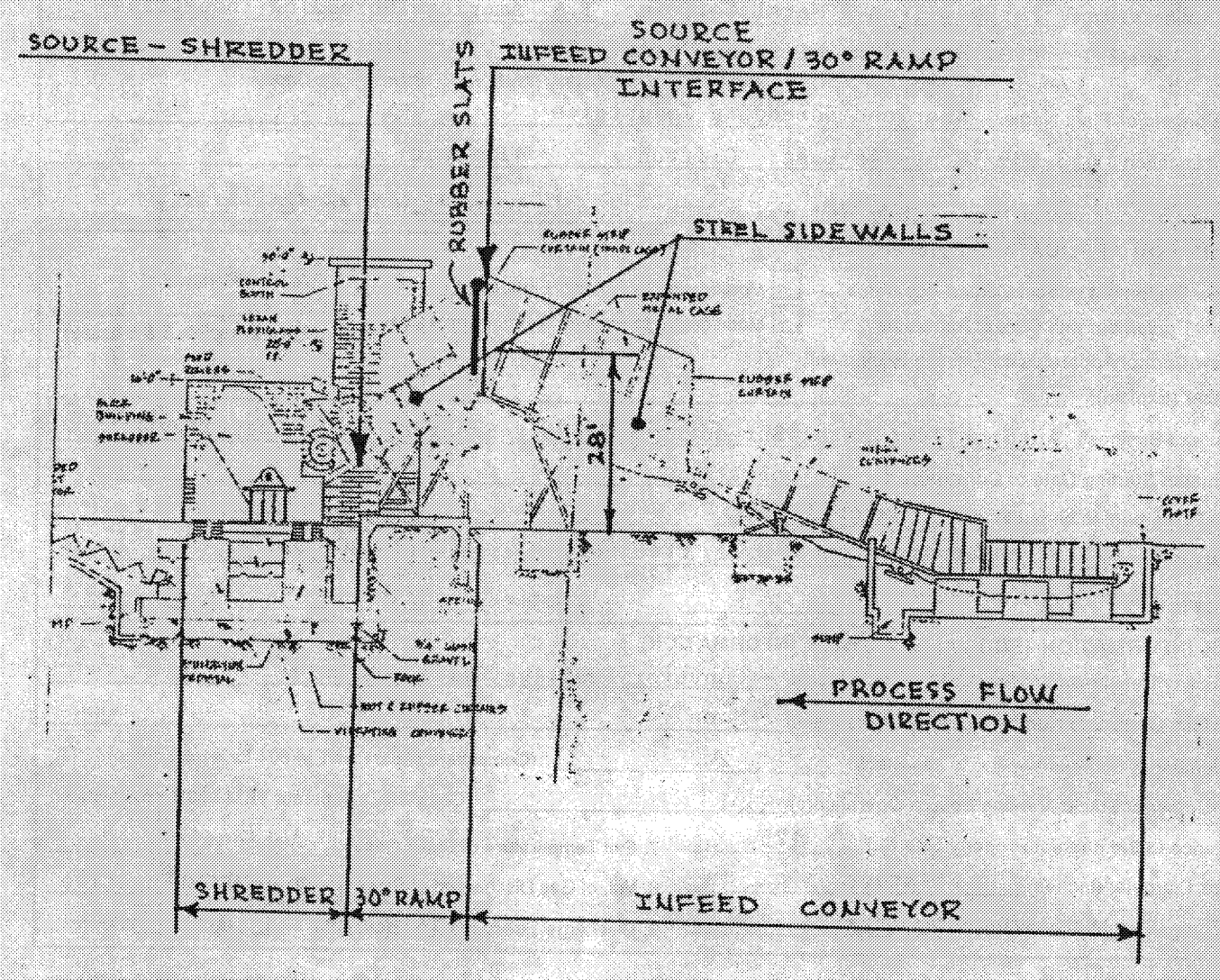
Alan Shapiro (Name (print or type)) President (Title) Alan Shapiro (Signature) 10/30/95 (Date)

This application will not be processed unless proper fee is submitted.

FOR ASSISTANCE CALL 1-800-441-0065
OUT OF NEW JERSEY - 609-292-6716

FOR DEPARTMENT USE ONLY Log No. 01-95-3208 Fee ____ Eval. ____

SECTION D DIAGRAM INSTRUCTIONS: A diagram must be included showing the configuration of all stacks, control apparatus and sources related to this application. NOTE: In cases of multiple stacks, include the following information for each stack: (1) distance to nearest property line, (2) stack diameters, (3) stack height above ground, (4) exit temperature (°F) of stack gases, (5) volume rate of gases (ACFM) discharged at stack conditions, (6) the location and type of control apparatus, (7) direction of flows, and (8) maximum stack emissions.



VEM-004
11/92

Side 1

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
BUREAU OF NEW SOURCE REVIEW

APPLICATION FOR
PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT
AND
CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

Source Emissions and Source Data Form

(Complete this form for each source and submit with application Form VEM-003)

3-09-030-04

SECTION E

SOURCE INFORMATION

1. Source Description: Infeed Conveyor

2. Operating Schedule: 8 Hours/Day; 2,000 Hours/Year; March 3, 1995 Operation Starting Date

3. % Annual Production Throughput By Quarter: 25 Jan.-Mar.; 25 Apr.-June; 25 July-Sept.; 25 Oct.-Dec.

4. Volume Of Gas Discharged From This Source (ACFM): Fugitive; Source Discharge Temperature (°F): Ambient

SECTION F

CONTROL APPARATUS ON SOURCE

		Capital Cost (Dollars)	Annual Operating Cost (Dollars)	No. of Sources Connected
Primary	Wet spray - 90% Efficient	3,000	1,000	1
Secondary				
Tertiary				

SECTION G

AIR CONTAMINANTS FROM SOURCE

CONTAMINANT NAME	Maximum Emissions w/o Control (lbs./hr.)	Maximum Emissions with Control (lbs./hr.)	How Determined
Particulates	5.0 *	0.5 *	Estimate *

* Based on 0.1% of throughput by weight subject to particulate dispersion

$$\frac{40{,}000 \text{ pounds}}{\text{day}} \times \frac{1 \text{ day of operation}}{8 \text{ hours}} \times 0.001 \times (1.0 - 0.9) = 0.5 \frac{\text{pounds}}{\text{hour}}$$

* Use VEM-004 Supplement if additional space if required.

TO INSURE PROPER COORDINATION BETWEEN VEM-003 and VEM-004 FORMS, INSERT IDENTICAL COMPANY NAME AND DESIGNATION OF STACK FROM VEM-003, SIDE 1.

FOR DEPT. USE ONLY
Referenced Log No. 01-95-5208

Full Business Name: Parkway Iron & Metal Co., Inc. T.A. American Shredding

Company Designation of Stack(s): Shredder infeed conveyor

(over)

SECTION II NOISE

A. MANUFACTURING AND MATERIALS HANDLING

1. Process Description: Shredder

2. Total Amount Materials Processed: ☐ Batch _____ lb/batch, _____ hr/batch ☒ Continuous 40,000 lb/hr

3. Raw Materials

Raw Materials	% By Wt.	Raw Materials	% By Wt.
Crushed automobiles	60		
Miscellaneous Metals	40		

* Use VEM-004 Supplement if additional space if required.

B. FUEL BURNING EQUIPMENT

1. Gross Heat Input (10^6 BTU/HR): Electric

2. Type Heat Exchange: ☐ Direct ☐ Indirect ☐ Internal Combustion Engine

	PRIMARY FUEL	SECONDARY FUEL
3. a. Type of Fuel:		
b. Heating Value (Btu/lb):		
4. Method of Firing:		
5. % Sulfur in Fuel (Dry):		
6. % Ash Content of Fuel (Dry):		
7. Amount Burned/Yr.:		

Units: Solid Fuel (Tons) Liquid Fuel (10^3 Gal.) Gaseous Fuel (10^6 Ft.^{3})

C. INCINERATION

1. Type of Unit: N/A

2. Constituents of Waste(s): _____

3. Waste Code: ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6

4. Amount Burned (lbs./hr.): _____ Type of Auxil. Fuel (if any): _____

D. STORAGE FACILITY

1. Tank Contents: N/A

2. Type of Tank or Bin: _____ Height or Length (Ft.): _____

3. Capacity: _____ (10^3 Ft.^{3}) ☐ (10^3 Gal.) ☐ Equivalent or Actual Diameter (Ft.): _____

THE REMAINING QUESTIONS ARE TO BE ANSWERED ONLY FOR LIQUID STORAGE

4. Vapor Pressure at 70°F (PSIA): _____ Storage Temp. If Not Ambient (°F): _____

5. Filling Rate (Gal/Min): _____ Annual Throughput (10^3 Gal/Yr): _____

6. Method of Fill: ☐ Top ☐ Bottom ☐ Submerged ☐ Other (Explain Below)

7. Color of Tank: ☐ White ☐ Other Exposed to Suns Rays ☐ Yes ☐ No

8. Insulation Data for Insulated Tanks (Volatile Organic Substances)

Type _____, Thickness (Inches) _____; Thermal Conductivity (Btu/hr/ft^2/°F) _____

FOR DEPARTMENT USE ONLY

☐☐☐☐☐ - ☐☐☐ - ☐☐☐

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
BUREAU OF NEW SOURCE REVIEW

APPLICATION FOR
PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT
AND
CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

Source Emissions and Source Data Form

(Complete this form for each source and submit with application Form VEM-003)

3-09-030-01

SECTION E

SOURCE INFORMATION

1. Source Description: Shredder

2. Operating Schedule: 8 Hours/Day; 2,000 Hours/Year; March 3, 1995 Operation Starting Date

3. % Annual Production Throughput By Quarter: 25 Jan.-Mar.; 25 Apr.-June; 25 July-Sept.; 25 Oct.-Dec.

4. Volume Of Gas Discharged From This Source (ACFM): Fugitive ; Source Discharge Temperature (°F): Ambient

SECTION F

CONTROL APPARATUS ON SOURCE

		Capital Cost (Dollars)	Annual Operating Cost (Dollars)	No. of Sources Connected
Primary	Wet Spray - 90% Efficient	3,000	1,000	1
Secondary				
Tertiary				

SECTION G

AIR CONTAMINANTS FROM SOURCE

CONTAMINANT NAME	Maximum Emissions w/o Control (lbs./hr.)	Maximum Emissions with Control (lbs./hr.)	How Determined
Particulates	5.0 *	0.5 *	Estimate *

* Based on 0.1% of throughput by weight subject to particulate dispersion

$$40{,}000 \frac{\text{pounds}}{\text{day}} \times \frac{1 \text{ day of operation}}{8 \text{ hours}} \times 0.001 \times (1.0 - 0.9) = 0.5 \frac{\text{pounds}}{\text{day}}$$

* Use VEM-004 Supplement if additional space if required.

TO INSURE PROPER COORDINATION BETWEEN VEM-003 and VEM-004 FORMS, INSERT IDENTICAL COMPANY NAME AND DESIGNATION OF STACK FROM VEM-003, SIDE 1.

FOR DEPT. USE ONLY
Referenced Log No. 01-95-5208

Full Business Name: Parkway Iron & Metal Co., Inc. T.A. American Shredding

Company Designation of Stack(s): Shredder

(over)

A. MANUFACTURING AND MATERIALS HANDLING

1. Process Description: Shredder

2. Total Amount Materials Processed: ☐ Batch _____ lb/batch, _____ hr/batch ☒ Continuous 40,000 lb/hr

3. Raw Materials

Raw Materials	% By Wt.	Raw Materials	% By Wt.
Crushed automobiles	60		
Miscellaneous Metal	40		

* Use VEM-004 Supplement if additional space if required.

B. FUEL BURNING EQUIPMENT

1. Gross Heat Input (10^6 BTU/HR): Electric
2. Type Heat Exchange ☐ Direct ☐ Indirect ☐ Internal Combustion Engine

	PRIMARY FUEL	SECONDARY FUEL
3. a. Type of Fuel:		
b. Heating Value (Btu/lb):		
4. Method of Firing:		
5. % Sulfur in Fuel (Dry):		
6. % Ash Content of Fuel (Dry):		
7. Amount Burned/Yr.:		

Units: Solid Fuel (Tons) Liquid Fuel (10^3 Gal.) Gaseous Fuel (10^6 Ft.^{3})

C. INCINERATION

1. Type of Unit _____
2. Constituents of Waste(s) _____
3. Waste Code ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6
4. Amount Burned (lbs./hr.) _____ Type of Auxil. Fuel (if any) _____

D. STORAGE FACILITY

1. Tank Contents _____
2. Type of Tank or Bin _____ Height or Length (Ft.) _____
3. Capacity _____ (10^3 Ft.^{3}) ☐ (10^3 Gal.) ☐ Equivalent or Actual Diameter (Ft.) _____

THE REMAINING QUESTIONS ARE TO BE ANSWERED ONLY FOR LIQUID STORAGE

4. Vapor Pressure at 70°F (PSIA) _____ Storage Temp. If Not Ambient (°F) _____
5. Filling Rate (Gal/Min) _____ Annual Throughput (10^3 Gal/Yr) _____
6. Method of Fill: ☐ Top ☐ Bottom ☐ Submerged ☐ Other (Explain Below)
7. Color of Tank: ☐ White ☐ Other Exposed to Suns Rays ☐ Yes ☐ No
8. Insulation Data for Insulated Tanks (Volatile Organic Substances)
   Type _____, Thickness (Inches) _____, Thermal Conductivity (Btu/hr/ft^2/°F) _____

SECTION II

FOR DEPARTMENT USE ONLY

☐☐☐☐☐ - ☐☐☐ - ☐☐☐

EVALUATION SUMMARY

Log No 01-95-5268 Done By: BL Reviewed by _____ OEP Review _____

- Does a previous permit need to be cancelled ?
  [✓] No [ ] Yes, P/CT number(s): _____
- Description of process(es): METAL SHREDDING
- Reason for application: NEW EQUIPMENT
- Subchapter 8.2 applicability > 50 TPY
- [ ] SOTA requirements do not apply because:
  [✓] Emissions are deminimis or other:
  [ ] Emissions are significant, but control is NOT SOTA - CENY
  [ ] Emissions are significant, and control represents SOTA.
  Which is: _____
- [X] Application does not contain TCPA regulated chemicals.
  [ ] Application contains TCPA regulated chemicals and a copy has been forwarded to TCPA by memo for their information.
- [✓] Application is not subject to NSPS review
  [ ] Application is subject to NSPS, subpart _____
- [X] Application is not subject to NESHAPS review
  [ ] Application is subject to NESHAPS, subpart _____
- [✓] Application does not contain any TVOS as per subchapter 17.
  [ ] Application contains TVOS, see separate review sheet.
- [ ] Application involves:
  [ ] waste treatment - coordinate w/ DSWM and/or HWRP.
  [ ] sewage sludge - coordinate w/ DSWM.
  [ ] wastewater treatment - coordinate w/ Water Discharge Regulation Program.
  [X] Application does not involve waste treatment, sewage sludge, and/or wastewater treatment

Applicable subchapters for this review are NJAC 7:27-8

C.2 8.2 _____ _____ _____ _____ _____

Comments: IN COMPLIANCE W/ ALL APPLICABLE SUBCHAPTERS. WET SUPPRESSION CONTROL W/ 90% EFFICIENCY. EMISSIONS ARE REASONABLE. EMISSIONS ARE DEMINIMIS. AFTER CONTROL. SEE LETTER FOR DETAILS OF WET SUPPRESSION. 12/27/95 (continued on back)

[✓] Approve [ ] No permit required [ ] Deny
[ ] Approve with conditions [ ] Cancel

NJDEP EVALUATION FORM

PARTICULATES
7:27-6.2

SOURCE _____

✓ NEW SOURCE
__ MODIFICATION: _____

NAME OF PARTICULATE(S) METALS

* CHECK ONE

__ HYDROCARBON WITH VAPOR PRESSURE LESS THAN 0.02 PSIA
✓ SOLID PARTICULTES
__ LIQUID PARTICULATES

ACFM FUGITIVE TEMPERATURE 70 F

1) ADJUSTMENT TO STANDARD CONDITIONS IF OVER 3000 ACFM

$$SCFM = _____ ACFM \times \frac{530}{460 + (\quad)} F = _____$$

2) CALCULATION OF ALLOWABLE EMISSIONS

* IF EMISSIONS GREATER THAN DEMINIMUS WITH CONTROL, USE A
IF DEMINIMUS EMISSIONS OR NO CONTROL, USE B

A) BASED ON 99 PERCENT CONTROL EFFICIENCY:
* IF LB/HR > 3000 BEFORE CONTROL, THEN ALLOWABLE = 30 LB/HR

5 LBS/HR x 0.01 = .5 ALLOWABLE
BEFORE CONTROL .5 ACTUAL

B) BASED ON ACFM FROM SOURCE:
* IF UNDER 3000 ACFM, THEN ALLOWABLE = 0.5 LB/HR

$$_____ SCFM \times 1.71429 \times 10^{-4} = _____ LB/HR ALLOWABLE$$
_____ LB/HR ACTUAL

COMPLIANCE =======>>>>> ✓ YES __ NO

* CHECK ONE

__ OLD CONTROL DEVICE
✓ NEW CONTROL DEVICE WITH ~~99%~~ 90% EFFICIENCY
__ DEMINIMIS EMISSIONS, SOA DOES NOT APPLY
__ NONE

CONTROL DEVICE WET SUPPRESSION

EFFICIENCY 90%

NJ DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
AIR QUALITY REGULATION PROGRAM

Log Number: 01955208 ID/Stack#: 30496-001
Cancel Permits :

Company Name : PARKWAY IRON & METAL CO, INC. Regional Office: NFO
Plant Location: CLIFTON County: PASSIAC
Stack Designation: NO.STACK-CONVEYOR FUGITIVE EMISS

Source Code: 7070 MISCELLANEOUS METAL PROCESSES
Control Code: 977 DUST SUPRESSOR -

CONTAINMANT	WITHOUT CONTROL LB/HR	WITHOUT CONTROL TON/YR	WITH CONTROL LB/HR	WITH CONTROL TON/YR	EFF	NJAC 7:27-
Particulate	5.000	5.000	.500	.500	90.000	6.2
PM10	.000	.000	.000	.000	.000	
SO2	.000	.000	.000	.000	.000	
NO2	.000	.000	.000	.000	.000	
CO	.000	.000	.000	.000	.000	
HCO	.000	.000	.000	.000	.000	
VOS(TOTAL)	.000	.000	.000	.000	.000	
TVOS(TOTAL)	.000	.000	.000	.000	.000	
NVOS	.000	.000	.000	.000	.000	
Pb	.000	.000	.000	.000	.000	
	.000	.000	.000	.000	.000	
	.000	.000	.000	.000	.000	
	.000	.000	.000	.000	.000	

Date Received : 11/06/95 Permit Category: 02
Date Assigned : 11/08/95 Evaluator: GL
Date Evaluated: 11/06/95 Time Units: 0024

APPLICABLE REGULATIONS

NSPS: TVOS: N MODEL: N PINELANDS: N NESHAPS: PSD: N OFFSETS: N
RISK: N RCRA: N TCPA: N Legal Action: 0

EMISSION CHANGE: I (Increase/Decrease/No Change)

RECOMMENDATION

Permit Action Code (PAC): 01 Permit approved
Certificate Status: ~~No Status~~ 5|
P/CT Startup Date: 03/03/95

CONDITIONS

N Stacktest Y Odor Y Opacity Y Inspection Y Other
# of Insp: 02 ATTACHED
Priority : L (High, Med Low)

SUPERVISOR [signature] DATE 1/3/96 |X|CONCUR | |DO NOT CONCUR

SECTION CHIEF _____ DATE __/__/__ | |CONCUR | |DO NOT CONCUR

FOR BUREAU CHIEF M. Adhanom DATE 1/4/96 |X|APPROVE | |DISAPPROVE

ID# 31125

Date: 1/17/96

PARKWAY IRON & METAL CO, INC.
ALAN SHAPIRO
P.O. BOX 2399
CLIFTON , NJ, 07015-0000

Plant Location: 613-639 ROUTE 46E
County: PASSIAC
Applicant's Designation of Stack:NO.STACK-CONVEYOR FUGITIVE EMISS
Application Log #: 01955208
Approval Date: 1/ 4/96
Approval Status Code:51

PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT

This permit is being issued under the authority of chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). You may construct, install, or alter the control apparatus or equipment as indicated on the application referenced above.

The Status of this approval is referenced above.
Please see page 2 of this letter for the explanation the status code.

You will be sent Form VEM-017 at a later date. Form VEM-017 will include your New Jersey Plant ID Number, New Jersey Stack Number, and Certificate Number.

If you have any questions regarding this document, please write to the Bureau of New Source Review at the above address. Questions regarding Certificates to Operate should be directed to the Regional Office.

Approved by: _____
Chief

C: BNSR File
Regional Office

PCP 970001