### STATE OF FLORIDA

# DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT 7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610-9644



BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

RICHARD D. GARRITY, PH.D. DISTRICT MANAGER

| APPLICATION TO OPERATE/  | CONSTRUCT AIR POLLUTION SOURCES  |
|--|--|
| SOURCE TYPE: McKay Bay Refuse to Energy F  | acility $ $ New $^{1}$ $[_{X}]$ Existing $^{1}$  |
| APPLICATION TYPE: [x] Construction []  | Operation [X] Modification   |
| COMPANY NAME: City of Tampa  | COUNTY: Hillsborough   |
| Identify the specific emission point sour  | ce(s) addressed in this application (i.e. Lime   |
| Kiln No. 4 with Venturi Scrubber; Peaking  | Unit No. 2, Gas Fired) flyash silo baghouse  |
| SOURCE LOCATION: Street 107 N. 34th St.  | CityCity   |
|  | North 3091.9 km  |
| Latitude 27° 56'   | 51"N Longitude 82° 25 14"W -   |
| APPLICANT NAME AND TITLE: Nancy McCann   | Urban Environmental Coordinator  |
| APPLICANT ADDRESS: Office of Environment   | al Coordination; City Hall Plaza, 5N Tampa, FL<br>33602  |
| A. APPLICANT  I am the undersigned owner or authoris I certify that the statements made in permit are true, correct and complete I agree to maintain and operate the facilities in such a manner as to co Statutes, and all the rules and regula also understand that a permit, if gra and I will promptly notify the depart | this application for a modification to construction to the best of my knowledge and belief. Further, pollution control source and pollution control comply with the provision of Chapter 403, Florida actions of the department and revisions thereof. I must by the department, will be non-transferable ment upon sale or legal transfer of the permitted  Signed:  Nancy McCann. Urban Environmental Coordinator Name and Title (Please Type)  Date: 7/23/86 Telephone No. (813) 223-8071 |
| B. PROFESSIONAL ENGINEER REGISTERED IN FI  | ORIDA (where required by Chapter 471, F.S.)  |
| •  | y features of this pollution control project have  |

been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

1 See Florida Administrative Code Rule 17-2.100(57) and (104)

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12

|     | an effluent that complies with a  | , when properly maintained and operated, will discharge<br>ll applicable statutes of the State of Florida and the  |
|-----|---|--|
|     | rules and regulations of the dep<br>furnish, if authorized by the ow  | artment. It is also agreed that the undersigned will  ner, the applicant a set of instructions for the preser  |
|     | pollution byr (ABS)   | pollution control facilities and, if applicable,  Signed Rebut Mequilia  |
|     | O LERTIFICA, TO   | -  |
|     | No 2007   | Robert J. Nespechal Name (Please Type)   |
|     | No. 31287 会员  | Vølund USA Ltd.  |
|     | Pollution Sources  NESPECTORIOR  STATE OF  CORIOR  CRED ENGLISH  Fida Registration No. 31287  SECTION II:   | Company Name (Please Type) 900 Jorie Blvd., Suite 222, Oak Brook, IL 60521   |
|     | FRED ENGLISH  | Mailing Address (Please Type)  |
| Flo | rida Registration No. 31287   | Date: July 23, 1985 Telephone No. 312/655-1490   |
|     | SECTION II:   | GENERAL PROJECT INFORMATION  |
| Α.  | and expected improvements in sou  | f the project. Refer to pollution control equipment, rce performance as a result of installation. State in full compliance. Attach additional sheet if   |
| В.  | pneumatic conveying system to an atmosphere through a bag filter into trucks for subsequent dispo The expected improvements to the ash in the silo for proper dispo in compliance with the emission Construction Permit AC29-47277. | rostatic precipitators is transported via a pressurized ash storage silo. Conveying air is vented from the silo to located on top of the silo. Ash from the silo will be loaded sal in the City's designated sanitary residue disposal site. ash storage silo performance will be improved containment of sal. The discharge of particulate to the atmosphere will be limitations for particulate contained in the City of Tampa's this application (Construction Permit Application Only) |
|     |   | 84 Completion of Construction December '84   |
| С.  | for individual components/units of  | n(s): (Note: Show breakdown of estimated costs only of the project serving pollution control purposes. I be furnished with the application for operation   |
|     | Bag Filter: \$7,150.00  |  |
|     |   |  |
|     |   |  |
|     |   |  |
| D.  | Indicate any previous DER permits point, including permit issuance  | s, orders and notices associated with the emission and expiration dates.   |
|     | City of Tampa Construction Permi  | t AC29-47277   |
|     |   |  |
|     |   |  |

DER Form 17-1.202(1) Effective October 31, 1982

|    | this is a new source or major modification, answer the following quest   | ions. |
|----|--|-------|
| 1. | Is this source in a non-attainment area for a particular pollutant?  | Yes   |
|    | a. If yes, has "offset" been applied?  | Yes   |
|    | b. If yes, has "Lowest Achievable Emission Rate" been applied?   | Yes   |
|    | c. If yes, list non-attainment pollutants. Particulate, ozone  |       |
| 2. | Does best available control technology (BACT) apply to this source?<br>If yes, see Section VI.                                     | No    |
| 3. | Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII. | No    |
| 4. | Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?  | Yes   |
| 5. | Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?                                       | No    |
|    | "Reasonably Available Control Technology" (RACT) requirements apply this source?   | No    |

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

- 1.) City of Tampa Construction Permit AC29-47277
- 2.) Florida Department of Environmental Regulation, Bureau of Air Quality Management, Central Air permitting <u>Technical Evaluation</u> and <u>Preliminary Determination</u> for Permit AC29-47277.

# SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

|                | Contaminants Utilization |              |               |                        |  |  |
|----------------|--------------------------|--------------|---------------|------------------------|--|--|
| Description    | Туре                     | % Wt         | Rate - lbs/hr | Relate to Flow Diagram |  |  |
| Not Applicable |                          |              |               |                        |  |  |
|                |                          | <del>-</del> |               |                        |  |  |
|                |                          |              |               |                        |  |  |
|                |                          |              |               |                        |  |  |
| <u> </u>       |                          |              |               |                        |  |  |

- B. Process Rate, if applicable: (See Section V, Item 1)
  - 1. Total Process Input Rate (lbs/hr): 7,640 (includes entrained fly ash)
  - 2. Product Weight (lbs/hr): 72.3
- C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

| Name of     | Emiss             | ion <sup>1</sup> | Allowed <sup>2</sup><br>Emission<br>Rate per | Allowable <sup>3</sup><br>Emission | Pot ent<br>Emiss |       | Relate<br>to Flow |
|-------------|-------------------|------------------|--|------------------------------------|------------------|-------|-------------------|
| Contaminant | Maximum<br>lbs/hr | Actual<br>T/yr   | Rule<br>17-2                                 | lbs/hr                             | lbs/yr           | T/yr  | Diagram           |
| Fly Ash     | 0.361             | 1.58             | 0.025 gr/dscf                                | 30.4                               | 633,423          | 316.7 | Encl.(1)          |
|             |                   |                  |  |                                    |                  |       |                   |
|             |                   |                  |  |                                    |                  |       |                   |

 $<sup>^{\</sup>mathrm{l}}$  See Section V, Item 2.

<sup>&</sup>lt;sup>2</sup>Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input) Per Construction Permit AC29-47277

 $<sup>^3</sup>$ Calculated from operating rate and applicable standard Per Construction Permit AC29-47277

<sup>&</sup>lt;sup>4</sup>Emission, if source operated without control (See Section V, Item 3).

O. Control Devices: (See Section V, Item 4)

| Name and Type<br>(Model & Serial No.) | Contaminant | Efficiency | Range of Particles Size Collected (in microns) (If applicable) | Basis for<br>Efficiency<br>(Section V<br>Item 5) |
|---------------------------------------|-------------|------------|--|--|
| FLEX KLEEN<br>BVBC-36(IIG)/D010996    | Fly Ash     | 99.5%      | 0.5 And Greater  | Lab tests on similar devices                     |
|                                       |             |            |  |  |
|                                       |             |            |  |  |
|                                       |             |            |  |  |

## E. Fuels

|                    | Consum | otion*  |                                  |
|--------------------|--------|---------|----------------------------------|
| Type (Be Specific) | avg/hr | max./hr | Maximum Heat Input<br>(MMBTU/hr) |
| Not Applicable     |        |         |                                  |
|                    |        |         |                                  |
|                    |        |         |                                  |
|                    |        |         |                                  |

\*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

| Eur | a i        | Ana     | 1 | vq  | í | q  |   |
|-----|------------|---------|---|-----|---|----|---|
| r u | <b>-</b> 1 | M III C | 1 | νэ. |   | Э. | • |

| Percent Sulfur:             |                     | Percent Ash:              |             |
|-----------------------------|---------------------|---------------------------|-------------|
| Density:                    | lbs/gal             | Typical Percent Nitrogen: |             |
| Heat Capacity:              | BTU/1b              |                           | BTU/gal     |
| Other Fuel Contaminants (wh | ich may cause air p | ollution):                |             |
|                             |                     |                           | <del></del> |
| F. If applicable, indicate  | the percent of fue  | l used for space heating. |             |
| Annual Average              | Ма                  | ximum                     |             |
| G. Indicate liquid or soli  | d wastes generated  | and method of disposal.   |             |
|                             |                     |                           |             |
|                             |                     |                           |             |
|                             |                     |                           |             |

| Silo Kwack Height:  | 9 ACFM<br>Not Appl<br>SECT  | N/A licable low IV:    | % INCINERA        | Gas Exit Velocity: ATOR INFOR             | Not Applic  MATIGN  IV Type V log (Liq.& | Not Applicable of Cable Finds  Type VI Gas (Solid By-prod.) |
|---|-----------------------------|------------------------|-------------------|---|--|---|
| Type of Type O (Plastics)  Actual lb/hr Inciner-ated  Uncon-trolled | Not App                     | Ion IV:                | INCINERA          | Velocity: ATOR INFOR  III Type je) (Patho | Not Applic                               | Type VI Gas (Solid By-prod.)                                |
| Type of Type O (Plastics)  Actual lb/hr Incinerated  Uncontrolled   | SECT                        | ION IV:                | INCINERA          | ATOR INFOR                                | MATION  IV Type V log (Liq.&             | Type VI<br>Gas (Solid By-prod.)                             |
| Waste (Plastics)  Actual  | Type I                      | Type II                | Type I            | III Type<br>je) (Patho                    | IV Type V                                | Gas (Solid By-prod.)  |
| Waste (Plastics)  Actual  | Type I<br>(Rubbish)         | Type II<br>(Refuse)    | Type I<br>(Garbag | ge) (Patho                                | log- (Liq.&                              | Gas (Solid By-prod.)  |
| lb/hr Inciner- ated  Uncon- trolled                                 |                             |                        |                   |   | -/   by-pro                              | d.)   |
| trolled   |                             |                        |                   |   |  |   |
| <del> </del>  |                             |                        |                   |   |  |   |
| escription of Waste _   |                             |                        |                   | <del>- I</del>                            | <del>  </del>                            |   |
| otal Weight Incinerat   |                             |                        |                   |   | Capacity (1                              | bs/hr)  |
| pproximate Number of  |                             |                        |                   |   |  |   |
| anufacturer   |                             |                        |                   |   |  |   |
| ate Constructed   |                             |                        |                   |   |  |   |
|   |                             | Τ                      |                   |   |  | T   |
|   | Volume<br>(ft) <sup>3</sup> | Heat R<br>(BTU         | ,                 | Туре                                      | Fuel<br>BTU/hr                           | Temperature<br>(°F)   |
| Primary Chamber   |                             |                        |                   |   |  |   |
| Secondary Chamber   | <u> </u>                    | <u> </u>               |                   |   |  |   |
| tack Height:  | ft. :                       | Stack Dia              | mter:             |   | Stac                                     | k Temp  |
| as Flow Rate:   |                             |                        |                   |   |  |   |
| If 50 or more tons pe<br>ard cubic foot dry ga                      | r day des<br>s correct      | ign capac<br>ed to 50% | ity, sub          | mit the en                                | missions rat                             | e in grains per stan  |
| ype of pollution cont   | rol devic                   | e: [ ] C               | yclane            | [ ] Wet S                                 | crubber [ ]                              | Afterburner   |
|   |                             | [] o                   | ther (sp          | ecify)                                    |  |   |
| ER Form 17-1.202(1)<br>ffective November 30,                        |                             |                        |                   |   |  |   |

| Brief description                | or oper     | rating em | aracter | . ISCICS | 01 00  | HELGI | GATC    |     |          |           |                                       |
|----------------------------------|-------------|-----------|---------|----------|--------|-------|---------|-----|----------|-----------|---------------------------------------|
|                                  |             |           |         |          |        |       | <u></u> |     |          |           |                                       |
|                                  |             |           |         |          |        |       |         |     |          |           | · · · · · · · · · · · · · · · · · · · |
| Ultimate disposal<br>ash, etc.): | of any      | effluent  | other   | than th  | nat em | itted | from    | the | stack    | (scrubber | water,                                |
|                                  |             |           |         |          |        |       |         |     |          |           |                                       |
|                                  | <del></del> |           |         |          |        |       |         |     | <u> </u> |           |                                       |

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

#### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

- 1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- 3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
- 6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of air-borne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

DER Form 17-1.202(1) Effective November 30, 1982

- 9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
- 10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

#### SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

| Α.  | Are standards of performance for new state applicable to the source? | tionary sources pursuant to 40 C.F.R. Part 60                        |
|-----|--|--|
|     | [XX] Yes [ ] No  |  |
|     | Contaminant  | Rate or Concentration  |
|     | Particulate  | 0.08 gr/dscf @ 12% CO <sub>2</sub>                                   |
|     |  |  |
| -   |  |  |
| 3.  | Has EPA declared the best available cont yes, attach copy)           | rol technology for this class of sources (If                         |
|     | [ ] Yes [XX] No  |  |
|     | Contaminant  | Rate or Concentration  |
|     |  |  |
|     |  |  |
|     |  |  |
| · · | What emission levels do you propose as be                            | st available control technology?                                     |
|     | Contaminant  | Rate or Concentration  |
|     | Particulate  | 0.02 grains/acf  |
|     |  |  |
|     |  |  |
| ).  | Describe the existing control and treatme                            | nt technology (if any).  |
|     | Pulse jet<br>1. Control Device/System: Fabric Filter                 | 2. Operating Principles: Bag filter with back pulsing for cleaning l |
|     | 3. Efficiency:* 99.5%  | 4. Capital Costs:  |

Lab tests

Page 8 of 12

\*Explain method of determining

Effective November 30, 1982

DER Form 17-1.202(1)

\$ 7,150.00

40 years with occasional Useful Life: 40 years ..... bag replacement Operating Costs: Maintenance Cost: 7. Energy: \$ 1.820/vr Minimal Emissions: Contaminant Rate or Concentration 0.02 Grains/acf Particulate 10. Stack Parameters ft. ft. b. Diameter: a. Height: OF. ACFM d. Temperature: Flow Rate: FPS Velocity: Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). No other method of filtering particulate from storage silo. 1. b. Operating Principles: Control Device: Efficiency: 1 d. Capital Cost: f. Operating Cost: Useful Life: Energy: 2 h. Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 2. b. Operating Principles: Control Device: Efficiency: 1 d. Capital Cost: f. Operating Cost: Useful Life: Energy: 2 h. Maintenance Cost: Availability of construction materials and process chemicals: <sup>1</sup>Explain method of determining efficiency. <sup>2</sup>Energy to be reported in units of electrical power - KWH design rate. DER Form 17-1.202(1)

Page 9 of 12

Effective November 30, 1982

Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate k. within proposed levels: 3. Control Device: Operating Principles: а. Capital Cost: Efficiency: 1 C. Useful Life: Operating Cost: Α. Maintenance Cost: Energy: 2 g. Availability of construction materials and process chemicals: i. Applicability to manufacturing processes: j. Ability to construct with control device, install in available space, and operate k. within proposed levels: 4. Operating Principles: Control Device: а. Efficiency: 1 Capital Costs: c. Useful Life: Operating Cost: e. h. Maintenance Cost: Energy: 2 Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: 2. Efficiency: 199.5% Lab tests Control Device: Pulse jet bag filter l. Useful Life: 40 years with occasional bag Capital Cost: \$ 7,150.00 3. replacement Operating Cost: Minimal Energy: 2 Minimal Manufacturer: 7. Maintenance Cost: FLEX KLEEN \$1,820/year Other locations where employed on similar processes: (1) Company: General Foods (2) Mailing Address: W. North St. (4) State: (3) City: Delaware Dover <sup>1</sup>Explain method of determining efficiency. <sup>2</sup>Energy to be reported in units of electrical power - KWH design rate. DER Form 17-1.202(1)

Page 10 of 12

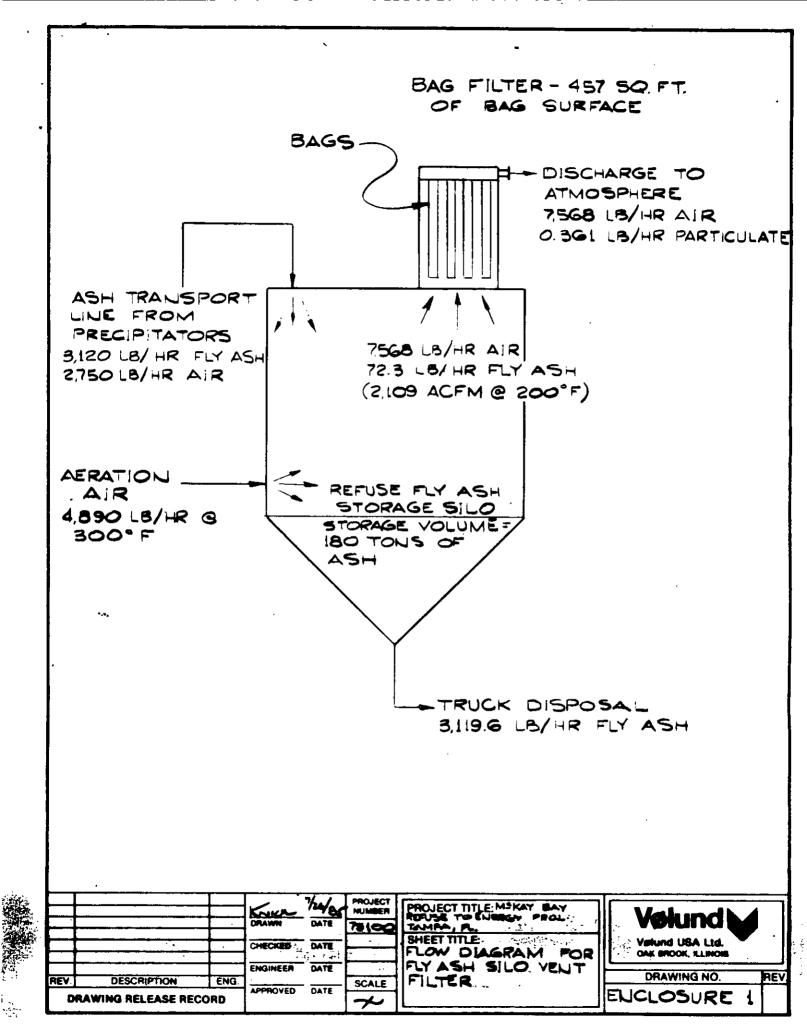
Effective November 30, 1982

| (5) XZYYYXXYXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX          | Project Enginee  | r: Jim Schwartz       |                 |              |  |
|---|------------------|-----------------------|-----------------|--------------|--|
| (6) Telephone No.: 302/734                          | -0373            |                       |                 |              |  |
| (7) Emissions: <sup>l</sup>                         |                  |                       |                 |              |  |
| Contaminant   |                  | Rate o                | r Concentration | n            |  |
| Coal Fly Ash Particulate                            |                  | 0.02 Grain            | s/ACF Max.      |              |  |
|   |                  |                       |                 | <del> </del> |  |
|   |                  |                       |                 |              |  |
| (8) Process Rate: 1 8000 ]                          | b/hr             |                       |                 |              |  |
| ь. (1) Company: Carolina F                          | ower and Light   |                       |                 |              |  |
| (2) Mailing Address: 411 Fay                        | vetteville St.   |                       |                 |              |  |
| (3) City: Raleigh                                   |                  | 4) State: NC          | 27602           |              |  |
| (5) жийхийийихххийиййхх<br>-                        | Project Engine   | er: Bob McCullu       | m               |              |  |
| (6) Telephane No.: 919/836-                         | ·8266            |                       |                 |              |  |
| (7) Emissions: 1                                    |                  |                       |                 |              |  |
| Contaminant   |                  | Rate o                | r Concentratio  | n            |  |
| Coal Fly Ash Particulate                            |                  |                       |                 |              |  |
|   |                  |                       |                 |              |  |
|   |                  |                       |                 |              |  |
| (8) Process Rate: 1 50 tons                         | per hour         |                       |                 |              |  |
| 10. Reason for selection ar                         | id description o | f systems:            |                 |              |  |
| <sup>1</sup> Applicant must provide this in         |                  |                       | ld this inform  | nation not t |  |
| available, applicant must state                     | the reason(s)    | why.                  |                 |              |  |
| SECTION VII -                                       | - PREVENTION OF  | SIGNIFICANT DETER     | IORATION        |              |  |
| A. Company Monitored Data                           |                  |                       |                 |              |  |
| 1no. sites  | TSP              | ( ) 50 <sup>2</sup> * | Wi              | nd spd/dir   |  |
| Period of Monitoring                                |                  |                       |                 |              |  |
| refind of homeoring                                 | month day        | year month            | day year        |              |  |
| Other data recorded                                 |                  |                       |                 |              |  |
| Attach all data or statistic                        | eal summaries to | this application      | •               |              |  |
| #C  | oue (r)          |                       |                 |              |  |
| *Specify bubbler (B) or continue                    | jus (C).         |                       |                 |              |  |
| DER Form 17-1.202(1)<br>Effective November 30, 1982 | Page 11          | of 12                 |                 |              |  |

|    | 2. Instrumentation, Fiel   | d and Laboratory  |  |
|----|--|---|--|
|    | a. Was instrumentation E   | PA referenced or its equivalent? [ ] Yes [ ] No   |  |
|    | b. Was instrumentation c   | alibrated in accordance with Department procedures?   |  |
|    | [ ] Yes [ ].No [ ]   | Unknown   |  |
| в. | Meteorological Data Used   | for Air Quality Modeling  |  |
|    | 1Year(s) of data   | from / / to / / month day year  |  |
|    | 2. Surface data obtained   | from (location)   |  |
|    | 3. Upper air (mixing hei   | ght) data obtained from (location)  |  |
|    | 4. Stability wind rose (   | STAR) data obtained from (location)   |  |
| С. | Computer Models Used   |   |  |
|    | 1.   | Modified? If yes, attach description.   |  |
|    | 2.   | Modified? If yes, attach description.   |  |
|    |  | Modified? If yes, attach description.   |  |
|    |  | Modified? If yes, attach description.   |  |
|    | Attach copies of all fina ciple output tables.   | l model runs showing input data, receptor locations, and prin-  |  |
| D. | Applicants Maximum Allowa  | ble Emission Data   |  |
|    | Pollutant  | £mission Rate   |  |
|    | TSP  | grams/sec   |  |
|    | S 0 2  | grams/sec   |  |
| ٤. | Emission Data Used in Mod  | eling   |  |
|    | Attach list of emission s<br>point source (on NEDS poi<br>and normal operating time  | ources. Emission data required is source name, description of<br>int number), UTM coordinates, stack data, allowable emissions, |  |
| F. | Attach all other informat  | ion supportive to the PSD review.   |  |
| G. | Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Includes assessment of the environmental impact of the sources. |   |  |

the requested best available control technology.

Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of





# BASIS OF POTENTIAL DISCHARGE

1. Uncontrolled emmission rate is based on having no baghouse filter with a 4 grains/acf particulate loading in the air to be vented to the atmosphere.

Vented air to atmosphere:

2,109 acfm

Particulate loading:

4 grains/acf

Uncontrolled emission:

2,109  $\frac{\text{ft}^3}{\text{Min}}$  X  $\frac{\text{4 grains}}{\text{ft}^3}$  X  $\frac{\text{LB}}{7000}$  grains

X 60 min X 8,760 hr year : 633,423 lb/yr

**TAMPAENY**