



Westinghouse
Electric Corporation

Resource Energy Systems
Division

2400 Ardmore Boulevard
Pittsburgh Pennsylvania 15221
(412) 636 5800
WIN 261 5800

EN2685NH

August 24, 1989

RECEIVED
AUG 25 1989
DER-BAQM

Mr. Clair Fancy
Department of Environmental Regulation
Air Quality
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399

Dear Clair,

Enclosed is an application to modify the Air Quality Construction Permits AC-03-145061 and AC-03-152196 and PSD permit PSD-FL-129 for the Bay County Resource Management Center located in Panama City, Florida. In addition, supporting documentation and the \$200 application fee have been included with the application form. Four copies of the forms and documents have been supplied.

Also, certification of the oxygen and the carbon monoxide continuous emission monitors will now take place during the week of September 11, 1989. All tests will be conducted by ETS, Inc. of Roanoke, Virginia, in accordance with 40 CFR 60 Appendix B, Performance Specifications 3 and 4.

If you have any questions, please call me at (412) 636-5806 or Nancy Hirko at (412) 636-5890.

Sincerely,

David A. Beachler/nmk

David S. Beachler, Manager
Environmental & Quality Engineering

Enclosure

- cc: N. M. Hirko
- M. Lindsey - Bay County
- J. J. Ludwig
- J. Preece - Florida DER NW District
- P. Raval*
- B. Andrews*
- D. Rogers*
- W. Armonson, EPA*
- C. Shaver, NPS*

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1989 AUG 25 AM 10:32

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QUESTIONS? CALL 800-238-5355 TOLL FREE.

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702 78M

AIRBILL NUMBER
3309549000

DATE
8/24/86

From (Your Name)
Nancy Hirko
Company
WESTINGHOUSE RESOURCE ENERGY
Your Phone Number (Very Important)
(412) 636-5890

Street Address
2400 ARDMORE BLVD COST
City
PLYMOUTH
State
PA
ZIP Required For Correct Invoicing
15152

To (Recipient's Name)
Mr. Clair Fancy
Company
Dept. of Envir. Regulation Air Quality
Department/Floor No.
Twin Towers Office Bldg.

Exact Street Address (Use of P.O. Boxes or F.P.O. Zip Codes Will Delay Delivery And Incur An Extra Charge.)
2000 Blvd. Penn
City
Tallahassee
State
FL
ZIP Street Address Zip Required
32300

YOUR BILLING REFERENCE INFORMATION (FIRST 24 CHARACTERS WILL APPEAR ON INVOICE)
BRNS00

PAYMENT Bill Sender Bill Recipient's FedEx Acct. No. Bill 3rd Party FedEx Acct. No. Bill Credit Card

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10000 10th Street

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 PRIORITY 1
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 OVERNIGHT DELIVERY
 OVERNIGHT TUBE
 STANDARD AIR

DELIVERY AND SPECIAL HANDLING G.O. CHECK SERVICES REQUIRED		PACKAGES	WEIGHT	YOUR DECLARED VALUE	OVER SIZE
<input type="checkbox"/> 1 HOLD FOR PICK-UP	<input type="checkbox"/> 2 DELIVER WEEKDAY				
<input type="checkbox"/> 3 DELIVER SATURDAY	<input type="checkbox"/> 4 DANGEROUS GOODS				
<input type="checkbox"/> 5 CONSTANT SURVEILLANCE SERVICE (CSS)	<input type="checkbox"/> 6 DRY ICE				
<input type="checkbox"/> 7 OTHER SPECIAL SERVICE	<input type="checkbox"/> 8				
<input type="checkbox"/> 9 SATURDAY PICK-UP	<input type="checkbox"/> 10				

ZIP * Zip Code of Street Address Required
Emp. No. Date
 Cash Received
 Return Shipment
 Third Party

SERVICE COMMITMENT
PRIORITY 1 - Delivery is scheduled early next business morning in most locations. It may take two or more business days if the destination is outside our primary service areas.
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Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting thereon.
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Date/Time For Federal Express Use
8-24 12:00

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City
Tallahassee
State
FL
Zip
32300
Received By
X
Date/Time Received
8-24 12:00
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FEC-S-751-1000
REVISION DATE 10/86
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RECIPIENT'S COPY

Westinghouse Electric Corporation, Corporate Information Services, Box 2518, Pittsburgh, Pa 15230 (412) 244-4850

YOUR INVOICE OR FREIGHT PRO. NO	INVOICE DATE	OUR REF. NO.	GROSS AMOUNT	DISCOUNT AMOUNT	NET AMOUNT	CHECK No.
FLOR081089	08109	RN10 ZZ1000	200.00	0.00	200.00	428548
MODIFICATION OF AIR PERMIT FOR BAY RESOURCE MANAGEMENT CENTER						
0000000029	TOTALS		200.00	0.00	200.00	

Westinghouse Electric Corporation

60-160
433

Mellon Bank

Pittsburgh, Pennsylvania
PAYABLE IF DESIRED AT HEADQUARTERS OFFICE,
SECURITY PACIFIC NATIONAL BANK
333 SOUTH HOPE ST., LOS ANGELES, CA
OR BARNETT NATIONAL BANK, JACKSONVILLE, FL

Pay To Order Of

Date

Amount of Check

FLORIDA DEPT OF ENVIRONMENTAL
TWIN TOWERS OFFICE BLDG
2600 BLAIR STONE RD
TALLAHASSEE FL 32399

08/17/89

*****200.00

Headquarters Disbursing Account - 9400

⑈428548⑈ ⑆043301601⑆ 000⑈9689⑈

D C Zorb
VICE PRESIDENT & TREASURER

Fatty,

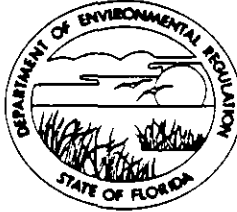
When we refund/return Bay Co.'s check, we may need to let them know that the fee is not req'd.

*2 more copies
EPA
NPS*

PR

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

Resource Recovery Facility
SOURCE TYPE: With 2 Combustor/Boiler Units [] New¹ [X] Existing¹

APPLICATION TYPE: [] Construction [] Operation [X] Modification

COMPANY NAME: Bay Resource Management Center COUNTY: BAY

Identify the specific emission point source(s) addressed in this application (i.e. Lime
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) 2 MSW-Fired Combustor/
Boilers w/ESP & Separate Flues

SOURCE LOCATION: Street 7504 Highway 231 North City Panama City

UTM: East 644.1 North 3348.9

Latitude 30° 15' 54"N Longitude 85° 30' 08"W

APPLICANT NAME AND TITLE: Bay Resource Management Center

c/o Westinghouse RESD, Cost Bldg., 2400 Ardmore Blvd.
APPLICANT ADDRESS: Pittsburgh PA 15221 Attn: David S. Beachler

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Bay County

I certify that the statements made in this application for a Modification permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

*Attach letter of authorization

Signed: D.S. Beachler

D.S. Beachler, Manager, Environmental Engr.
Name and Title (Please Type)

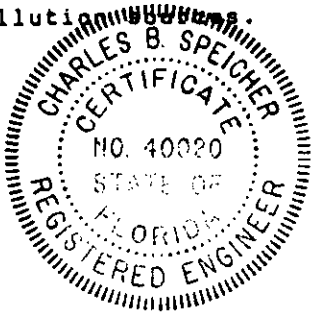
Date: 8/17/89 Telephone No. 412-636-5806

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering 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)

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution control equipment.



Signed Charles B. Speicher
 Charles B. Speicher, P.E.
 Name (Please Type)

Westinghouse Electric Corporation -RESO
 Company Name (Please Type)
2400 Ardmore Blvd.
Pittsburgh, PA 15221
 Mailing Address (Please Type)

Florida Registration No. PE-0040020 Date: 8/23/89 Telephone No. (412) 636-5840

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

Revision of the Lead Emission Limits

(Refer to Attached Letter for Supporting Documentation.)

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction NA Completion of Construction NA

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Two Electrostatic Precipitators \$1,046,000

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

AC-03-145061 } October 17, 1988 (issued)

AC-03-152196

PSD-FL-129

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;
if power plant, hrs/yr 8760; if seasonal, describe: This facility is expected to be
in continuous operation except for maintenance outages. Full capacity of the plant is
510 TPD MSW. Wood waste and bark will be burned as supplemental fuel.

F. If this is a new source or major modification, answer the following questions.
(Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? NO
 - a. If yes, has "offset" been applied? N/A
 - b. If yes, has "Lowest Achievable Emission Rate" been applied? N/A
 - c. If yes, list non-attainment pollutants. N/A
 2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. YES
 3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. YES
 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
- H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? NO
- a. If yes, for what pollutants? _____
 - b. If yes, in addition to the information required in this form,
any information requested in Rule 17-2.650 must be submitted.

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

B. Process Rate, if applicable: (See Section V, Item 1)

- Total Process Input Rate (lbs/hr): 42,500 lb/hr MSW Total (21,250 lb/hr each)
- Product Weight (lbs/hr): 136,000 lb/hr total steam (68,000 lb/hr per unit)

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

For each unit

Name of Contaminant	Emission ¹		Allowed Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Lead, Pb	0.10	0.438			4.23	18.5	
*							

¹See Section V, Item 2.

²Reference 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)

³Calculated from operating rate and applicable standard.

⁴Emission, if source operated without control (See Section V, Item 3).

*Refer to previous Permit Application for other contaminants. None of the other contaminants or emission rates are being revised.

NOTE: For Pages 5-8 and 10-12, refer to previous Permit Application.

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

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

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____
 Density: _____ lbs/gal Typical Percent Nitrogen: _____
 Heat Capacity: _____ BTU/lb _____ BTU/gal
 Other Fuel Contaminants (which may cause air pollution): _____

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average _____ Maximum _____

G. Indicate liquid or solid wastes generated and method of disposal.

NOTE: See Previous Permit Application

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: _____ ft. Stack Diameter: _____ ft.
 Gas Flow Rate: _____ ACFM _____ DSCFM Gas Exit Temperature: _____ °F.
 Water Vapor Content: _____ % Velocity: _____ FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____
 Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____
 Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____
 Manufacturer _____
 Date Constructed _____ Model No. _____

	Volume (ft) ³	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____
 Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: Cyclone Wet Scrubber Afterburner
 Other (specify) _____

NOTE: See Previous Permit Application

Brief description of operating characteristics of control devices: _____

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

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 airborne 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.

NOTE: See Previous Permit Application

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

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

Yes No

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

Yes No

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

1. Control Device/System:

2. Operating Principles:

3. Efficiency:*

4. Capital Costs:

*Explain method of determining

- 5. Useful Life: 20 years
- 7. Energy: 60 KW
- 9. Emissions: Less than 0.03 gr/dscf

- 6. Operating Costs: \$30,000/yr.
- 8. Maintenance Cost: \$30,000/yr.

Contaminant	Rate or Concentration
Particulate Matter	Less than 0.03 gr/dscf
Lead	0.10 lb/hr
Visible Emissions	Less than 15% opacity for 6 minutes averaged in any hour according to permit conditions.

10. Stack Parameters

- a. Height: 125 ft. 2 flues
- ft. b. Diameter: 4.5 ft.
- c. Flow Rate: 54,800
- ACFM d. Temperature: 435 °F.
- e. Velocity: 66
- FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). Refer to Previous Application

1.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

NOTE: See Previous Permit Application

- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

4.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Costs:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency:¹
- 3. Capital Cost:
- 4. Useful Life:
- 5. Operating Cost:
- 6. Energy:²
- 7. Maintenance Cost:
- 8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

NOTE: See Previous Permit Application

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____

(8) Process Rate:¹

10. Reason for selection and description of systems:

¹Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ () SO₂* _____ Wind spd/dir

Period of Monitoring _____ / _____ / _____ to _____ / _____ / _____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

NOTE: See Previous Permit Application

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent? Yes No
- b. Was instrumentation calibrated in accordance with Department procedures?
 Yes No Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from _____ / _____ / _____ to _____ / _____ / _____
month day year month day year
2. Surface data obtained from (location) _____
3. Upper air (mixing height) data obtained from (location) _____
4. Stability wind rose (STAR) data obtained from (location) _____

C. Computer Models Used

1. _____ Modified? If yes, attach description.
2. _____ Modified? If yes, attach description.
3. _____ Modified? If yes, attach description.
4. _____ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO ²	_____ grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information 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.). Include assessment of the environmental impact of the sources.

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.