

Puget Sound Clean Air Agency

Attachment A

110 Union Street, Suite 500, Seattle, WA 98101-2038: Alan Butler (206) (206) 689-4063

Emission Report
November 26, 2001

WASHINGTON UNIVERSITY OF, POWER PLANT & HOSPITAL

Facility ID #: 21320

EPA#: 033-23

Location (KING County):

Plant Operations, Box 352160
Seattle, WA 98195
David M. Ogradnik
Sr. Facilities Engineer
(206) 221-4285

Mailing Address:

Hall Health, Box 354400
Seattle, WA 98195-4400
Karen Vandusen
Dir Envir Health & Safety
(206) 206-221-4285

Standard Industrial Classification (SIC): 8221 Colleges And Universities

North American Industry Classification System (NAICS):

61131 Colleges, Universities and Professional Schools

2000 Air Contaminant Emission Summary

(From last year's Emission Report; fees based on tons/year)

<u>CAS#</u>	<u>Flags</u>	<u>Air Contaminants:</u>	<u>pounds/2000</u>	<u>tons /2000</u>
CO		Carbon Monoxide (CO)	138,600	69
NO2		Nitrogen Oxides (NO2)	378,500	189

Certification

I hereby certify to all of the following:

- (a) I have reviewed the attached Emission Report, and
- (b) to the best of my knowledge and belief, the submitted information is true and complete and follows the instructions contained in *Your Annual Emission Report*, and
- (c) the amounts and values in this report are reasonable estimates for 2001 using data available to those who prepared this report, including revisions, if any, to 2000 quantities and/or identification information.

Name: _____
(please print)

Title: _____
(please print)

Signature: _____

Date Signed: _____

Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 21320

Notice of
Construction No. 4578

AUG 13 1992

One AMSCO/Donaldson Ethylene Oxide Catalytic Afterburner at 110 cfm (500F).

RICHARD ESTERLING, MANAGER PROCESSING

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WA, UNIV OF, POWER PLANT & HOSPITAL

HALL HEALTH GS-05

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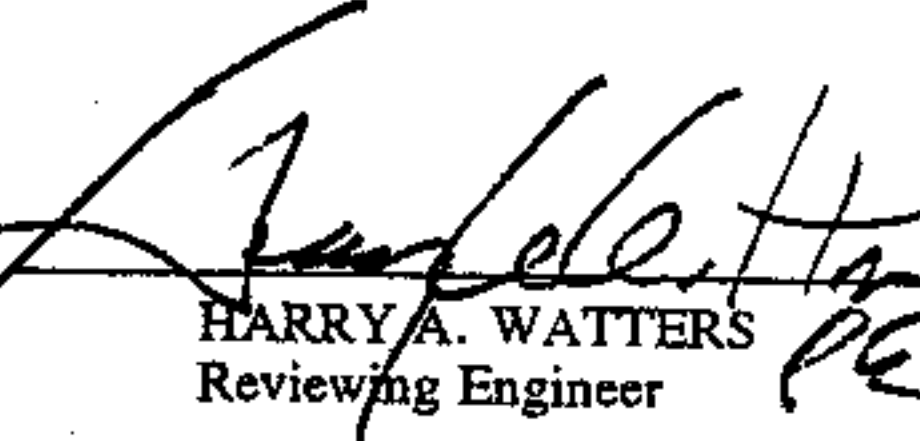
WA 98195

INSTALLATION ADDRESS


WA, UNIV OF, POWER PLANT & HOSPITAL, PLANT OPERATIONS BLDG FG-10, SEATTLE, WA, 98195


THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Air Pollution Control Agency to the applicant to install, alter or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply. Section 5.05(e) of Regulation I requires that the owner or operator must develop and implement an operation and maintenance (O&M) plan to assure continuous compliance with Regulations I, II, and III.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. Univ of WA Medical Center shall not cause or allow the discharge of ethylene oxide in the sterilizer exhaust vacuum pump working fluid to the waste water stream.


HARRY A. WATTERS
Reviewing Engineer

MEJ


MAGGIE L. CORBIN
Reviewing Engineer


ANITA J. FRANKEL
Air Pollution Control Officer

Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 21320

Notice of
Construction No. 5602

Date SEP 2 1994

One IE Eng. Co. Model IE43-ET 200 lb/hr Crematory exhausting vertically from a stack 98 feet above the ground.

DON G BROWN, Ph.D., DIRECTOR

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WA, UNIV OF, POWER PLANT & HOSPITAL

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INSTALLATION ADDRESS

WA, UNIV OF, POWER PLANT & HOSPITAL, 1705 NE PACIFIC ST (HEALTH SCIENCE CTR), SEATTLE, WA, 98195

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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. The University of Washington may operate its crematory during non-daylight hours.
5. The opacity of the exhaust stream shall not exceed 10% for a period or periods aggregating more than 3 minutes in any 1 hour.

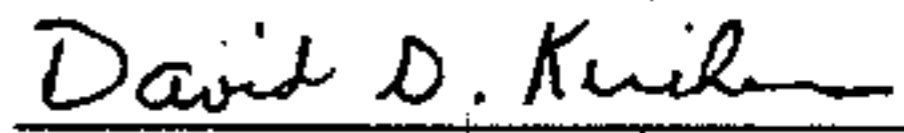


CLAUDE M. WILLIAMS
Reviewing Engineer

MEJ



JAY M. WILLENBERG
Reviewing Engineer



for DENNIS J. McLERRAN
Air Pollution Control Officer

Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 21320

Notice of
Construction No. 5924

Date NOV 8 1995

One Harrington Model ECH Horizontal Fume Scrubber at 19,000 cfm with Mist Eliminator with 100-250 GPM recirculation and 2-6 GPM inlet water flow for Microelectronics Research located in Fluke Hall.

DAVE LEONARD/DAVE OGRODNIK

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INSTALLATION ADDRESS

WA, UNIV OF, POWER PLANT & HOSPITAL, PLANT OPERATIONS BLDG FG-10, SEATTLE, WA, 98195

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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. The University of Washington (UW) shall install a pressure differential indicator and operate the system in the range of 0.5 to 2.5 inches water.
5. UW shall install a pH indicator and operate the system pH in the range of 6.5 to 11.
6. This Order of Approval No. 5924, issued to remove temperature indicator requirement, hereby supersedes and cancels Order of Approval No. 5924 dated Sep 27, 1995.

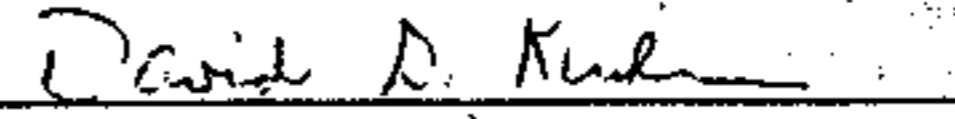


FREDRICK L. AUSTIN P.E.
Reviewing Engineer

MEJ



JAY M. WILLENBERG
Reviewing Engineer



for DENNIS J. McLERRAN
Air Pollution Control Officer

Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 21320

Notice of
Construction No. 6083

Date AUG 23 1995

One Mikro-Pulsaire Model 100S-10 Baghouse rated at 13,500 cfm for Woodworking Equipment located in the Plant Services Carpentry Shop.

DAVE LEONARD/DAVE OGRODNIK

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INSTALLATION ADDRESS

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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. The University of Washington (UW) shall not exceed 5% opacity for any 3 minutes in any 1 hour as measured by EPA Method 9.
5. UW shall not exceed 0.02 gr/dscf as measured by EPA Method 5.




FREDRICK L. AUSTIN P.E.
Reviewing Engineer

MEJ



JAY M. WILLENBERG
Reviewing Engineer



for DENNIS J. McLERRAN
Air Pollution Control Officer

Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 21320

Notice of
Construction No. 6206

Date SEP 26 1995

Replace existing Boiler No. 4 with new No. 4 Boiler at 200,000 #/hr steam, 236 MMBH, Wheeler AG-5165-6, with Economizer and Low NOx gas/#2 oil burner, exhausted to the existing stack at 73,000 cfm.

KAREN VanDUSEN, DIR, ENV HEALTH

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INSTALLATION ADDRESS


WA, UNIV OF, POWER PLANT & HOSPITAL, PLANT OPERATIONS BLDG FG-10, SEATTLE, WA, 98195

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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. Boiler #4 is subject to the requirements of 40 CFR 60, Subpart Db.
5. The University of Washington (UW) shall not exceed the following emission limits from its Central Power Plant:
 - (a) 790 tons/year (TPY) of sulfur dioxide (SO₂) per each 12 consecutive calendar month period; and
 - (b) 498 TPY of NO_x (oxides of nitrogen) reported as NO₂ (nitrogen dioxide) per each 12 consecutive month period.
6. UW shall not exceed the following NO_x hourly emission limits from the No. 4 Boiler approved under this Permit:
 - (a) 0.10 lbs/MMBtu when firing on natural gas with a single burner;
 - (b) 0.13 lbs/MMBtu when firing on natural gas with two burners; and
 - (c) 0.20 lbs/MMBtu when firing on #2 distillate oil.
7. UW shall install the following Continuous Emission Monitoring Systems (CEMS): for NO_x with the attendant monitoring of oxygen from the new No. 4 Boiler and the combined stack.
8. Each CEMS shall meet the requirements of 40 CFR 60, Appendix B or of Article 12 of Regulation I, whichever is more stringent.
9. UW shall meet the following reporting requirements to demonstrate continuing compliance with this permit:
 - (a) for SO₂ monthly reporting of total emissions for the previous 12 calendar months, based on % Sulfur in fuel burned.
 - (b) for NO_x monthly reporting of total emissions for the previous 12 calendar months, based on (1) the NO_x CEMS in the combined stack and (2) the calculated NO_x emissions from the emergency generators; and
 - (c) monthly CEMS reports shall be in the format required by PSAPCA.
10. UW shall submit the make and model of No. 4 Boiler and its burner at least 30 days before the start of construction.
11. PSAPCA will permit the installation and use of rental boilers during construction; provided the UW submits the required information for a temporary permit at least 30 days before installation.
12. This Order of Approval No. 6206, issued to delete opacity CEMS requirement in Condition No. 7, hereby supersedes and cancels Order of Approval No. 3784 dated May 1, 1991.


FREDRICK L. AUSTIN P.E.
Reviewing Engineer

MEJ


JAY M. WILLENBERG
Reviewing Engineer


for DENNIS J. McLERRAN
Air Pollution Control Officer

Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 21320

Notice of
Construction No. 6081

Date AUG 23 1995

One Torit Model 30FB Cyclone Dust Collector and Baghouse rated at 3,750 cfm for Woodworking Equipment located in Gould Hall, Room 132.

DAVE LEONARD/DAVE OGRODNIK

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INSTALLATION ADDRESS

WA, UNIV OF, POWER PLANT & HOSPITAL, PLANT OPERATIONS BLDG FG-10, SEATTLE, WA, 98195

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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
- ✓ 4. This cyclone/baghouse shall not exceed 5% opacity as measured by EPA Method 9.
- ✓ 5. This cyclone/baghouse shall not exceed 0.02 gr/dscf as measured by EPA Method 5.

Fredrick L. Austin

FREDRICK L. AUSTIN P.E.
Reviewing Engineer

MEJ

Jay M. Willenberg

JAY M. WILLENBERG
Reviewing Engineer

David D. Kishen

for DENNIS J. McLERRAN
Air Pollution Control Officer

Puget Sound Clean Air Agency

Notice of
Construction No. 7061

Registration No. 21320

Date AUG 9 2001



HEREBY ISSUES AN ORDER OF APPROVAL
TO CONSTRUCT, INSTALL, OR ESTABLISH

One Foster Wheeler Model 5200 FW 'D' Type natural gas/No. 2 oil fired Boiler (No. 7) rated at 266 MMBtu/hr with Todd low NOx burners and flue gas recirculation rated at 56,000 scfm (275 degrees F) venting to existing main stack.

APPLICANT

Karen VanDusen, Director Env Hlth & Safety
WA, Univ Of, Power Plant & Hospital
201 Health Hall, Box 354400
Seattle, WA 98195-4400

OWNER

WA, Univ Of, Power Plant & Hospital
201 Health Hall, Box 354400
Seattle, WA 98195-4400

INSTALLATION ADDRESS

WA, Univ Of, Power Plant & Hospital, Plant Operations, Box 352160, Seattle, WA, 98195

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

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2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. University of Washington shall comply with all the applicable requirements of 40 CFR 60, including Subparts A and D and Appendices A, B and F, and notify the U.S. Environmental Protection Agency and the Puget Sound Clean Air Agency according to 40 CFR 60 Subpart A, in writing, and follow specific requirements for periodic reporting.
4. University of Washington shall submit the following no later than 30 days prior to initial boiler No. 7 startup unless otherwise approved by the Control Officer: (a) A continuous emission monitoring system (CEMS) quality assurance, quality control (QA/QC) plan that satisfies Regulation I, Article 12, Appendices B and F of 40 CFR Part 60, and includes procedures for annually checking a 'clear stack' condition (40 CFR 60, Appendix B, Specification I, Section 7.2.1); (b) A plan containing alternate monitoring techniques to assure continuous emission monitoring and reporting whenever the CEMS does not meet the requirements of Regulation I, Section 12.03; (c) A definition of start up, shut down and normal operations; (d) An Unavoidable Excess Emissions plan for WAC 173-400-107 which defines general procedures, lists criteria and discusses corrective actions the University of Washington shall follow in the event excess emissions are believed to be unavoidable; (e) An action plan triggered whenever emissions exceed 90% of the limits of Condition No. 7 below; (f) A description of the method used to demonstrate compliance with Condition No. 7 below, including the use of source tests, emission factors, mass balances, the amount of liquid fuel burned, percentages of sulfur and ash content in the liquid fuel burned and a verification of the accuracy of the methods used; and (g) A source test plan that meets the requirements of Regulation I, Section 3.07 to measure oxides of nitrogen (NOx), and carbon monoxide (CO) emissions to verify compliance with Conditions No. 9 and No. 10 below.
5. University of Washington shall install a CEMS for NOx, oxygen (O2) and opacity for Boiler No. 7 that meets Regulation I, Article 12 and the monitoring requirements of 40 CFR 60.13.

Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL
TO CONSTRUCT, INSTALL, OR ESTABLISH

REGISTRATION NO. 21360

Notice of
Construction No. 7588

Date: NOV 24 1998

One JBI #IDB1212 Dry Filter Spray Coating Booth rated at 18,000 cfm located in the Oceanography Building.

KAREN VANDUSEN

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WA, UNIV OF, POWER PLANT & HOSPITAL
HALL HEALTH, BOX 354400
SEATTLE WA 98195-4400

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HALL HEALTH, BOX 354400
SEATTLE WA 98195-4400

INSTALLATION ADDRESS

WA, UNIV OF, POWER PLANT & HOSPITAL, PLANT OPERATIONS, BOX 352160, SEATTLE, WA, 98195

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

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2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. University of Washington shall install and maintain a gauge to measure the pressure drop across the spray booth exhaust filters. Within 90 days after beginning operations, the acceptable range for the gauge shall be clearly marked on or nearby the gauge.
4. Once during each shift that the spray booth is used, University of Washington shall determine and record if the pressure drop across the exhaust filters is in the acceptable range.
5. If the pressure drop is not within the acceptable range, University of Washington shall take corrective action as specified in the facility's Operation and Maintenance Plan.
6. University of Washington shall use best management practices in its spray coating operation, including the collection of VOC containing materials used for cleanup of equipment to minimize evaporation to the atmosphere, keeping containers used for the storage and disposal of VOC containing materials closed except when these containers are being cleaned or when materials are being added, mixed, or removed; and storing solvent rags and paper for disposal in closed containers.
7. University of Washington shall only use the following high efficiency spray equipment in its spray coating operations in this booth: high volume low pressure (0.1 to 10 psig for atomization) spray equipment.

APPEAL RIGHTS

Pursuant to PSAPCA's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon PSAPCA within 30 days of the date the applicant receives the Order.

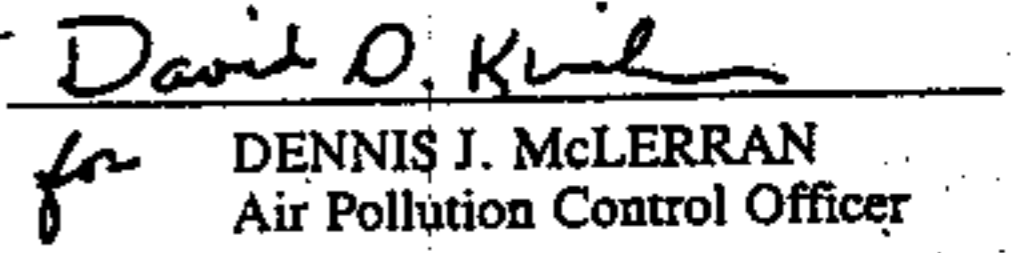


FREDRICK L. AUSTIN P.E.
Reviewing Engineer

MEJ



JAY M. WILLENBERG
Reviewing Engineer


for DENNIS J. McLERRAN
Air Pollution Control Officer

Order of Approval for NC No. 7061

AUG 9 2001

6. University of Washington shall meet the following conditions for the NO_x, O₂, and opacity CEMS for Boiler No. 7:
(a) The annual relative accuracy test audit (RATA) shall include emission measurements to verify compliance with Condition No. 9 and No. 10 below, and (b) The results of the RATA shall be calculated in the units of the standards.

7. University of Washington shall not exceed the following emission limits from the Central Power Plant for any 12 consecutive month period including start up and shut down periods: (a) SO₂ = 48 tons; (b) NO_x = 384 tons; (c) CO = 148 tons; and (d) PM₁₀ = 18 tons.

8. University of Washington shall meet the following reporting requirements to demonstrate compliance with Condition No. 7 above: (a) Monthly reports to the Puget Sound Clean Air Agency of total Power Plant SO₂, CO and PM₁₀ emissions for the previous 12-month period; (b) Monthly reports to the Puget Sound Clean Air Agency of total Power Plant NO_x emissions for the previous 12-month period based on: (i) The NO_x emissions as measured by the CEMS in the combined stack, and (ii) The NO_x emissions as calculated from the emergency generators; and (c) Report to the Puget Sound Clean Air Agency when the emissions of SO₂, NO_x, CO or PM₁₀ exceed 90% of the limit specified in Condition No. 7.

9. Emissions from Boiler No. 7 shall not exceed the following hourly emission standards as measured by the CEMS for NO_x, and as measured by Reference Method 10 or 10A during the initial performance test, during normal operations while in an operating mode of 25% capacity or greater, not including startup or shutdown periods: (a) NO_x = 0.05 lb/MMBtu on NG, and (b) CO = 0.10 lb/MMBtu on NG; (c) NO_x = 0.12 lb/MMBtu on No. 2 fuel oil, and (d) CO = 0.10 lb/MMBtu on No. 2 fuel oil.

NOTE: When changing fuels or operating load modes, University of Washington shall maintain separate monitoring records to demonstrate compliance with the appropriate limits of Conditions No. 9 and No. 10 according to Regulation I, Article 12.

10. Emissions from Boiler No. 7 shall not exceed the following hourly emission standards as measured by the CEMS for NO_x, and as measured by Reference Method 10 or 10A during the initial performance test, during normal operations while in an operating mode of at less than 25% capacity but greater than 12.5% capacity, not including start-up or shut-down periods: (a) NO_x = 0.07 lb/MMBtu on NG; and (b) CO = 0.25 lb/MMBtu on NG; (c) NO_x = 0.16 lb/MMBtu on No. 2 fuel oil; and (d) CO = 0.25 lb/MMBtu on No. 2 fuel oil.

11. University of Washington shall only add fuel oil with sulfur content of 0.05% by weight or less to the Power Plant underground storage tank (UST),

12. After the year 2005, the University of Washington shall only burn fuel oil with sulfur content of 0.05% or less in Boiler No. 7.

13. University of Washington shall not allow the emissions from boiler No. 7 to exceed 0.02 gr/dscf corrected to 7% oxygen as determined by Regulation I, Section 3.07.

14. University of Washington shall not allow the average opacity from boiler No. 7 to exceed 10% opacity for any consecutive 6-minute period during any clock hour as measured by the CEMS.

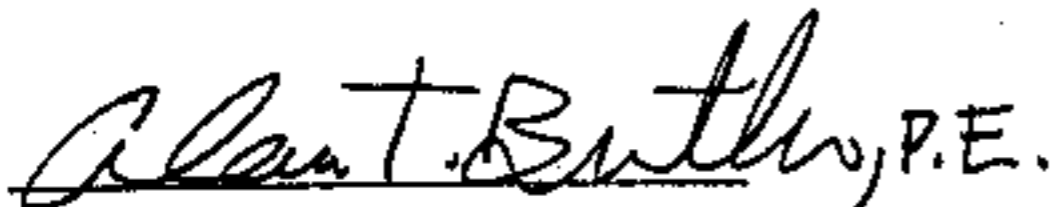
15. This Order of Approval No. 7061, issued to correct CO monitoring requirements, hereby supersedes and cancels Order of Approval No. 7061 dated Nov 19, 1998.

Order of Approval for NC No. 7061

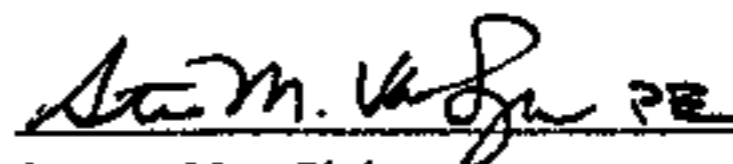
AUG 9 2001

APPEAL RIGHTS

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Alan Butler
Reviewing Engineer
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Steven Van Slyke
Supervising Engineer