



FOSTER WHEELER ENVIRONMENTAL CORPORATION

May 16, 1996

Post-It* Fax Note	7671	Date	5/16/96	# of pages	10
To	William Snell	From	Fred Roth		
Co./Dept.	USNRC	Co.	FWENC		
Phone #		Phone #	216-398-6064		
Fax #		Fax #			

Mr. William Snell
United State Nuclear Regulatory Commission,
Region III
799 Roosevelt Road
Glen Elyn, IL 60137-5927

Dear Mr. Snell:

In reply to your conversation on May 2, 1996, with Mr. Joe Davis, III the following is a description of the temporary treatment system used to treat approximately 1,500-gallons of laundry water. Additionally, we have attached photo-copies of our permit from the Northeast Ohio Regional Sewer District (NEORSO) and radiochemistry data from discharged batches of treated water.

The treatment system, from influent to effluent consists of the following equipment, a sketch of the system is also attached.

1. Washing machine discharge
2. A 50-micron bag filter
3. One 1,500-gallon holding tank
4. Electric submersible transfer pump
5. One 10-micron bag filter
6. One carbon cell loaded with 85-pounds of reactivated carbon
7. One 0.5-micron bag filter
8. One ion-exchange chamber
9. One Barnstead/Thermodyne Resin packed water polisher
10. One 400-gallon treated water holding tank

Total fresh water supplied to the system was approximately 1,500-gallons of water. The water was used for the sole purpose of laundering re-usable anti-contamination clothing. The system generally operated as follows. Water to the washing machine was supplied by the 400-gallon clean water holding tank. Effluent from the washing machine was discharged through a 50-micron filter into a 55-gallon drum, effluent from the drum was then transferred to the 1,500-gallon holding tank. Make-up water to the clean tank was processed from the 1,500-gallon tank through the 5-micron filter, carbon cell, 0.5-micron filter, ion exchange unit, and a water polisher.

C/O HARSHAW CHEMICAL COMPANY
1000 HARVARD AVENUE, P.O. BOX 609359, CLEVELAND, OH 44109-9359
TEL.: 216-398-6064 FAX: 216-398-2127

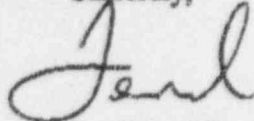
C/S2

Mr. Bill Snell
USNRC
May 16, 1996
Page - 2

In late January 1996, Foster Wheeler Environmental Corporation was directed by its client to demobilize the project. Since then the water has been jointly sampled (at the 400-gallon tank) by the NEORSD and us to verify acceptability for discharge to a sanitary sewer line. The required testing under our permit with NEORSD is total uranium.

Please contact the undersigned or Joe Davis III if you have any questions or concerns regarding this issue.

Sincerely,



Ferdinand Rock
Project Manager

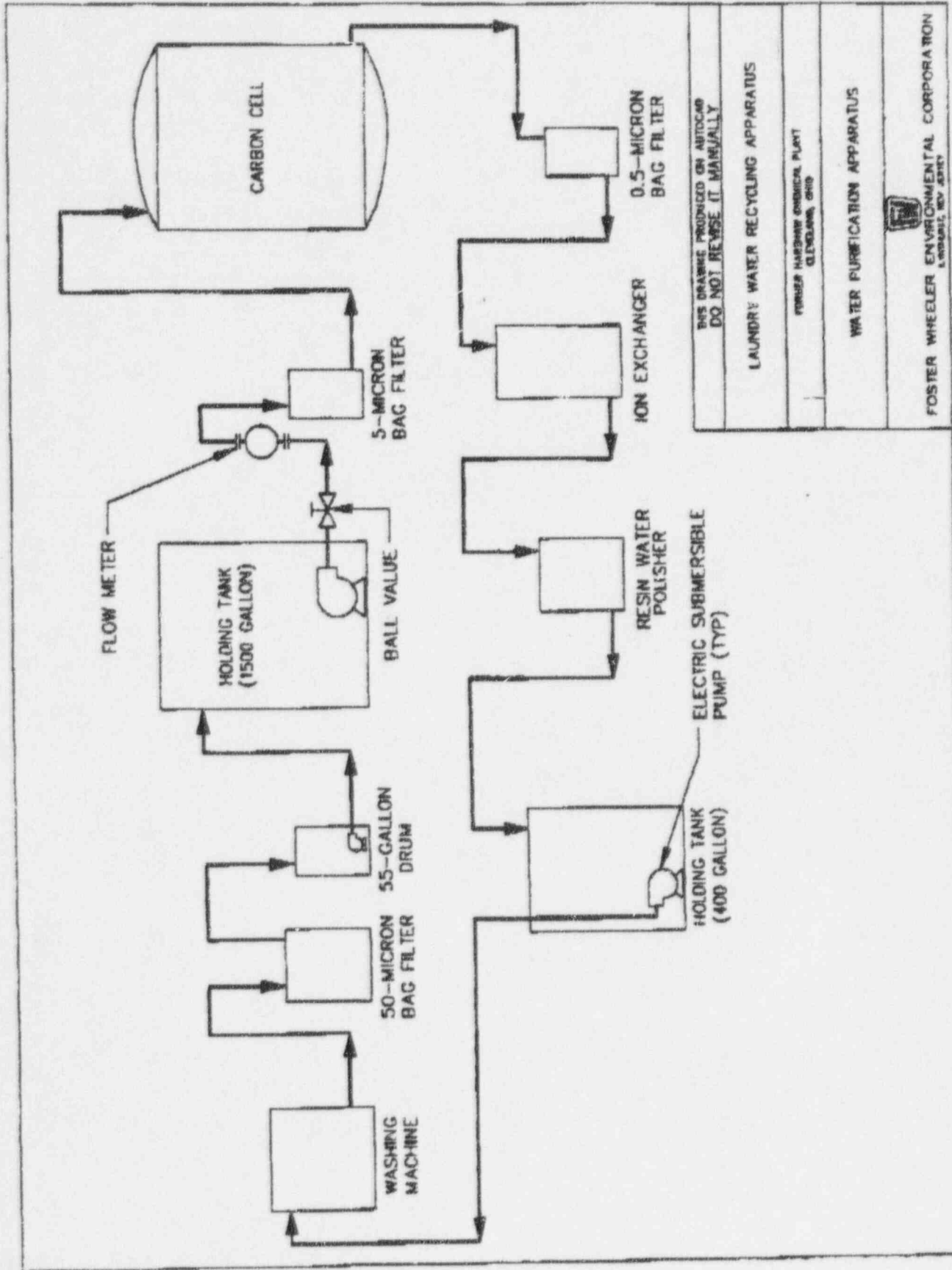
cc: J. Davis, FWENC
Rich Connelly, NEORSD
John Kwoleck, OEPA

Attachments:

- ⇒ Water Treatment Apparatus
- ⇒ NEORSD Permit No. 1307
- ⇒ Radiochemistry Data

m:\work\office\word\chc\env\NRC\H2O.DOC





CAD FILE NAME: PNC10108.DWG DATE: 5/15/96
PLOT SCALE: TO FIT TIME: 10:15 AM

PNC10108.DWG

UST Temporary Discharge Permit



NORTHEAST OHIO REGIONAL SEWER DISTRICT
 Water Quality and Industrial Surveillance
 4747 EAST 49TH STREET
 CUYAHOGA HEIGHTS, OHIO 44125-1011
 (216) 641-6000

Permit No.

No. 1307

Date of Application:

11-8-95

Facility Name: HARSHAW CHEMICAL Facility Contact: FERDINAND ROCK
 Facility Location: 1000 KALVADE AVE CLEVELAND 44109 (216) 594-1523
 Source of Wastewater: ☐ Tank Cavity/Pit Water ☐ Recovery Well/Test Borings
☐ Tank/Pipe Integrity Test Water (Hydrostatic Testing) ☐ Aqueous Tank Contents
☒ Other: Leaking H₂O discharge
 Contents or Former Contents of Tanks (list all contents from all tanks located in cavity): N/A

Expected Volume of Wastewater: 20K gallons 1/yr Expected Date of Discharge: 11-8-95 Expected Time of Discharge: 0900 a.m.
 Company Responsible for Discharge: Harshaw Chemical Corp.
 Person Responsible for Overseeing Project: JOE DAVIS (216) 398-6553
 Chemical Parameters Tested For: ☐ BTEX (Benzene, Toluene, Ethylbenzene, Xylene) ☒ Other: TOTAL HAPs
☐ Lead Limit 7ppm
☐ TPH (Total Petroleum Hydrocarbons)
 Are Analyses Attached: ☒ Yes ☐ No

The Acceptance of this permit does not waive any State, Federal or Local Regulations.
 This permit applicable to the sanitary sewer system within NEORS's jurisdiction.

This section to be completed by WQIS personnel

Permit Valid for Period of April 96 to April 97
(not to exceed one year)

Pretreatment Required: ☒ Yes ☐ No — If Yes, Type: ☐ Separator ☒ Activated Carbon ☐ Other: none

Additional Analyses Required: ☒ Yes ☐ No only for gas

If Yes What Parameters? TOTAL HAPs

Discharge Approved: ☒ Yes ☐ No Fee Paid: ☒ Yes ☐ No Additional Billing Required: ☐ Yes ☒ No

Approved: [Signature] Date: 11-8-95

Detach and Remit to Director of Finance, NEORS

Date: 11-8-95 Permit No.: 1307

Fee Paid: \$50.00 ☐ Check ☒ Money Order

Authorizing Signature: [Signature]

Permittee Signature: _____

216 398 2127 P.05

FOSTER WHEELER ENV. CORP.

MAY-16-1996 09:37

Controls for Environmental
Pollution, Inc.
P.O. Box 5351
Santa Fe, NM 87502

BATCH I

Phone: (505) 982-9841/(800) 545-2188

Foster Wheeler Env. Corp.
P.O. Box 609359
Cleveland, OH 44109-9359

Attn: Joe Davis
Invoice Number:

Order #: 96-03-200
Date: 03/27/96 16:03
Work ID: Water (NR)
Date Received: 03/26/96
Date Completed: 03/27/96
Client Code: FOSTER_WH_OH

Project Name: Marshaw Chemical
Project No: 1297

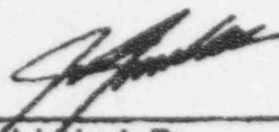
SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	Laundry Tank

Sample Number	Sample Description
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Our reports are rendered upon the condition that they are not to be reproduced wholly or in part for advertising and/or other purposes over our signature or in connection with our name without special permission in writing.

Remainder of sample(s) for routine analysis will be disposed of three weeks from final report date. Sample(s) for bacteria analysis only, will be disposed of immediately after analysis. This is not applicable if other arrangements have been made.



Certified By

Order # 96-03-200
03/27/96 16:03Controls for Environmental
TEST RESULTS BY SAMPLE

Page 2

Sample: 01A Laundry Tank

Collected: 03/23/96 09:00

Test Description
Total UraniumResults
8+/-1D.L.
1Units
pci/literAnalyzed By
03/27/96 TM

Controls for Environmental
Pollution, Inc.
P.O. Box 9351
Santa Fe, NM 87502

Phone: (505) 982-9841/(800) 345-2188

BATCH II

Foster Wheeler Env. Corp.
P.O. Box 609359
Cleveland, OH 44109-9359

Attn: Joe Davis
Invoice Number:

Order #: 96-04-111
Date: 04/16/96 15:01
Work ID: Water (NR)
Date Received: 04/13/96
Date Completed: 04/16/96
Client Code: FOSTER_NH_OH

Sample Number 01
Sample Description Laundry Tank

SAMPLE IDENTIFICATION

Sample Number
Sample Description

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James Mueller
Certified by
by David P. Wallace

WLA Laundry Tank

Station
WLA

Controls for Environmental
TEST RESULTS BY SAMPLE

Page 2

Collected: 04/12/96

Result
C1

P.L.
1

Units
PC1/1liter

Analyzed By
04/13/96 TM

BATCH III

Controls for Environmental
Pollution, Inc.

P.O. Box 5351
Santa Fe, NM 87502

Phone: (505) 982-9841/(800) 545-2188

Foster Wheeler Env. Corp.
P.O. Box 609359
Cleveland, OH 44109-9359

Attn: Joe Davis
Invoice Number:

Order #: 96-05-027
Date: 05/06/96 13:18
Work ID: Water (NR)
Date Received: 05/02/96
Date Completed: 05/06/96
Client Code: FOSTER_WH_OH

Project Name: Harshaw Chemical
Project No: 1297

SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	Laundry Tank II

Sample Number	Sample Description
------------------	-----------------------

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James Mueller
Certified By
by Heidi P. Wallace

Order # 96-05-027
05/06/96 15:11Controls for Environmental
TEST RESULTS BY SAMPLE

Page 2

Sample: 01A Laundry Tank II

Collected: -04/30/96 17:00

<u>Test Description</u>	<u>Result</u>	<u>D.L.</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Total Uranium	<1	1	pci/liter	05/03/96	TM

TOTAL P.10