If you are using a printed copy of this procedure, and not the on-screen version, then you MUST make sure the dates at the bottom of the printed copy and the on-screen version match.
The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.
Hard copies of all signed, official, C-A Operating Procedures are available by contacting the ESSHQ Procedures Coordinator, Bldg. 911A

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

8.18.1.a Water Treatment Services Agreement With Drew Industrial Division of Ashland Chemical

C-A OPM Procedures in which this Attachment is used.		
8.18.1		

Hand Processed Changes

HPC No.	Date	Page Nos.	Initials
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Approved: _____***Signature on File***_____ _____
Collider-Accelerator Department Chairman Date

L. Vogt

Ashland

Ashland Specialty Chemical Company
Division of Ashland Inc.

Drew Industrial Division

Address Reply:
1000 Harrison Ave.
Kearny, NJ 07032
Tel: (201) 246-2510
Fax: (201) 246-1784

January 3, 2003

Mr. Dave Dale
Brookhaven National Laboratory
P.O. Box 5000, Bldg 211
Upton, NY 11973

Mr. William Chaloupka
Brookhaven National Laboratory
Plant Engineering – Bldg 452
Upton, NY 11973

Subject: Water Treatment Program -RFQ

Dear Mr. Dale and Mr. Chaloupka,

Thank you for the opportunity to survey your facilities and HVAC water systems with respect to water treatment. Attached please find our proposal for the HVAC Water Treatment Program at the Plant Engineering and Collider Accelerator facilities at Brookhaven National Laboratory. The proposal is based on our system survey as well as our experience in providing water treatment products and services at BNL and at similar facilities over the past years. The proposal includes a water treatment program designed to meet the individual needs of your systems.

The proposed program includes the use of Drew's Ultra-Serv Inventory Management Program for all water system, which will eliminate (with modifications) handling and disposal of chemical containers; the highest standard in results oriented water treatment programs; and is cost effective.

All products being proposed within this RFQ are pre-approved by Suffolk County and BNL for use as water treatment chemicals and are currently in use at BNL and comply with BNL SPDES Permits.

We look forward to the opportunity to provide your facility with a service and results oriented HVAC water treatment program for the years to come.

Sincerely,
ASHLAND SPECIALTY CHEMICAL COMPANY
DREW INDUSTRIAL DIVISION
Division of Ashland, Inc.

James Banham	Kevin Battaglini	Al Barba
Tech Sales Rep.	Tech Sales Rep.	District Manager

BNL Prop 0103.doc

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VOLUME 1

1A. SERVICE:

WATER TREATMENT SERVICE AGREEMENT – ***Option A***

Ashland Specialty Chemicals/ Drew Industrial Division agrees to provide a comprehensive water treatment program as described below to Brookhaven National Laboratory, NY.

Maintenance chemicals, testing reagents and apparatus required to properly treat the HVAC water systems during the operating periods to provide the following basic core program:

All products being proposed within this RFQ are pre-approved by Suffolk County and BNL for use as water treatment chemicals and are currently in use at BNL and comply with BNL SPDES Permits.

- Corrosion Inhibitors: adequate corrosion inhibitor residuals will be maintained in all applicable/ operating systems.
- Oxidizing and Non-Oxidizing Microbiocides will be fed at effective dosage rates.
- Weekly service visits to include on-site testing of critical operating condenser water systems, every other week visits for smaller operating condenser water systems and critical closed systems. Service visits will be split by 2 representatives for a minimum of 8 hours per week or 512 hours per year (one man weekly, two men once per month).
- Recommendations for proper adjustment of feed rates will be made based on testing performed, review of water treatment logs and review of equipment operation. Inventory control will be managed and a monthly, computerized report of all findings will be submitted to Plant Engineer/Manager.
- Drew Industrial Divisions UltraServe Inventory Management Program will be utilized as feasible to minimize BNL Employee exposure to treatment products. Exception will be: Bromine tablets, antifoam products and applications to closed loops.
- Corrosion Coupon Testing on all open condenser water systems will be performed on a 90 day basis for mild steel and copper metallurgy using ASTM standards; Coupon testing will be performed at various locations throughout the site for the District Chilled Water System. Metallurgical analysis of spool piece samples; analysis of deposit samples; and deterioration tests also to be provided as needed.

- Calibrations and checks on all chemical feed pumps and control equipment.

- All test kits and reagents required for routine testing of system pH, conductivity, inhibitor levels (Molybdate, Silica, Tolytriazole, etc), oxidizing microbiocide levels (free chlorine, bromine, etc), and bacterial activity (aerobic and anaerobic) will be provided at no charge under the agreement. Testing of related minerals (phosphate, iron, copper, etc.) will be performed as required.

- Maintain detailed water treatment operators manuals, technical bulletins, product data sheets, material safety data sheets, and water treatment control logs as needed and applicable.

- Certified laboratory water analysis on all critical open loop systems and site chilled water system to be performed semi-annually. Analysis of these systems to include a complete microbiological profile of system waters to determine biological efficacy. Relative Population Density (RPD) Tests and may also be performed (as required) at our Boonton, NJ laboratory.

- Regular annual inspection of air-conditioning equipment during shutdowns will include deposit analysis and internal inspections using video probe equipment as necessary. Video Probe will be provided for $250.00 per day (note: 2 weeks lead time needed for scheduling).

- Quarterly Progress Reports summarizing projects and their results; changes in the operation of the existing systems; and new technology and techniques affecting the water treatment program.

- Annual Review Meetings including graphical review of results on water treatment program; status of projects and their results; and future recommendations to improve the performance of the water treatment program.

- Annual safety training of building personnel including proper handling techniques of all treatment chemicals and interpretation of material safety data sheet information.

- Same day service for upset or emergency conditions and 24 Hour Hotline telephone numbers to be provided for emergencies.

- Training seminars for operating personnel including classroom and audio-visual based training (Note: Our classes are DEC approved for credits toward recertification of pesticide applicator in 7G by the New York State Department of Environmental Conservation).

- Pricing for all these services (except where noted) are included in the per pound cost of our treatment products that are being proposed within this RFQ.