Exelon Nuclear
200 Exelon Way
Suite 345
Kennett Square, PA 19348

www.exeloncorp.com

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April 8, 2002

CCN – 02-16000

Mr. Sean Furjanic
Pennsylvania Department Of Environmental Protection
Water Quality Management
909 Elmerton Avenue
Harrisburg, PA 17110-8200

Subject: Temporary Discharge to the Discharge Canal

Dear Mr. Furjanic;

Peach Bottom Atomic Power Station, NPDES Permit PA0009733, is requesting permission for a temporary discharge of a dewatering process effluent to the Discharge Canal. Peach Bottom is planning on dredging the Intake Canals between the trash racks at the outer screens and the inner screens. Unit 2 will be done during August to November 2002 and Unit 3 during August to November 2003.

The dredging will be accomplished by hydraulic dredging with a cutter head. The material will be dewatered using a cyclone grit chamber and four belt filter presses. The coagulant proposed for use in the dewatering process is Magnafloc LT225S, which is NSF 61 approved. The MSDS is attached.

Peach Bottom would like to discharge the effluent of the dewatering process to the Discharge Canal. The flow from the filter presses will be approximately 1,000 gallons per minute for approximately 12 hours per day for approximately 70 days for each unit. The flow in the Discharge Canal will be approximately 1,500,000 gpm.

The dewatered material will be deposited in either the D and E Cooling Tower Basins, an upland area at the North Substation, or the permitted Dredging/Rehandling Basin. These are listed in order of preference.

Attached is a copy of the Erosion and Sedimentation Plan approved by the York County Conservation District. The PADEP Water Obstruction & Encroachment Permit DEP File Number E36-693 & APS#326514 is valid until September 26, 2010. The US Army

Corps of Engineers Permit CENAB-OP-RPA(EXELON NUCLEAR/PEACH BOTTOM ATOMIC POWER STATION) 00-01851-2 is valid until November 21, 2011.

The sampling and analysis regime proposed is a daily 12-hour composite during the dredging operation analyzed for Total Suspended Solids (TSS) and a daily grab sample analyzed for pH. The results will be reported as an attachment to the monthly DMR's for the months the dredging occurs.

If you have any question on the project, please feel free to contact me at 610-765-5904, Mr. Bryan Holcomb at 717-456-3182, or Mr. Daniel Jordan at 717-456-4551. Thank you for your cooperation on this matter.

Sincerely;

Tracy J. Siglin
Environmental Specialist

Cc: Ray, A.W. w/out attachments
Miller, H. J. Administrator, Region 1, USNRC. w/attachments
McMurtray, A.C. USNRC Senior Resident Inspector, PBAPS w/attachments
USNRC Document Control Desk w/attachments (Docket Nos. 50-277 and 50-278)
Jordan, D.M. w/attachments
Maurice, K. w/attachments
Holcomb, B.E. w/attachments

Ciba Specialty Chemicals Corporation
USA
Additives

2301 Wilroy Road
P. O. Box 820
Suffolk, VA 23434

8am to 5pm Phone: (757)538-3700
24-Hour Health/Environmental Emergency Phone: (800)873-1138

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Value beyond chemistry

Effective Date: 3/27/01 **Material Safety Data Sheet** MSDS No: 14593

SECTION 1. PRODUCT IDENTIFICATION

Trade Name: MAGNAFLOC LT22S

Chemical Family: Copolymer of a quaternary acrylate salt and acrylamide.

Health	**1**
Flammability	**1**
Reactivity	**0**
Protective Equipment	**X**

HMIS RATING

Former Tradename:
PERCOL LT22S

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

OSHA	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS					CARCINOGEN STATUS		
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	124-04-9	ADIPIC ACID	5 mg/m3	NE	NE	NE	NE	NR	NR	NR
*	69418-26-4	COPOLYMER ACRYLAMIDE: DMAEA Q.(MeCl)	NE	NE	NE	NE	NE	NR	NR	NR

NE = Not Established NR = Not Reviewed * = OSHA Hazardous Ingredient

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview:

Description: White, free flowing powder with little or no odor.

Statement of Hazards: Eye irritant

Precautionary Measures: Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Avoid prolonged or repeated inhalation of dust or skin contact. Slip hazard when wet.

Primary Route(s) of Entry: Inhalation

Signs and Symptoms of Exposure: Contact with the eye may produce irritation and/or redness. Inhaled dust may cause some respiratory irritation.

Carcinogenicity: Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Medical Conditions Aggravated by Exposure: Existing respiratory conditions.

Target Organ(s): Eyes, lungs

SECTION 4. FIRST AID MEASURES

Ingestion: Do not give an emetic unless directed by a physician. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and launder before reuse. Wash effected area with soap and water.

Inhalation: Remove to fresh air.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: Not Applicable
Autoignition: Not Evaluated

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: Dust in sufficient concentration may result in an explosive mixture in air.

Fire Fighting Extinguishing Media: Carbon dioxide, dry chemical or foam.

Fire Fighting Equipment: No special procedures. However, wetted product presents a slip hazard. Pedestrian and vehicular traffic must proceed with caution where wet product may exist.

Fire and Explosion Hazards: Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting, and eliminate open flame and other sources of ignition.

Hazardous Combustion Products: Oxides of carbon and nitrogen.

Combustibility: May burn in fire.

Dust Explosivity: Dust in suficient concentration may result in an explosive mixture in air.

Emergency Response Guidebook Information: No ERG Guide cited. Handle as combustible material.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Product becomes slippery and difficult to handle when wet; spills are best handled while still dry. Sweep up and collect dry product. Absorb wet product with vermiculite or other inert material. Then water wash area to waste treatment to eliminate slip hazard.

SECTION 7. HANDLING AND STORAGE

Precautions: Good personal hygiene practices can reduce potential exposure. Wash with soap and water following any contact with this product, as well as before breaks and meals. Shower and change clothing at end of work shift. If clothing becomes contaminated, remove and launder or dry-clean before reuse.

Storage Information: Store in cool dry location.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin Protection: Not normally required.

Respiratory Protection: Use NIOSH approved dust respirator as required to control exposure. Follow ANSI Z88.2.

Eye Protection: Goggles (ANSI Z87.1 std; safety glasses alone do not protect from dust).

Engineering Controls: Provide mechanical ventilation to prevent dust concentrations, and to reduce potential exposure.

Additional Information: Provide eyewash station(s). Select additional protective equipment (eg apron, face shield, etc.), depending on conditions of use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Granular Powder
Color:	White
Odor:	Odorless
Odor Threshold:	Not applicable
Physical State:	Solid
Solubility in Water:	Soluble, solubility limited by viscosity
Vapor Pressure:	Not Applicable
Specific Gravity:	0.8 - 1
Boiling Point:	Not Applicable
Melting Point:	Not Applicable
Freezing Point:	Not Applicable
Decomposition Temperature:	Not Evaluated
Evaporation Rate:	Not Applicable
Vapor Density:	Not Applicable
VOC:	Not Applicable
pH:	~3.3 For 1 % solution.
Coefficient of water/oil:	Not Evaluated

Percent Volatile:
None expected above trace levels.

SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid: Avoid wet and humid conditions.

Stability: Stable.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Thermal decomposition or combustion may produce oxides of carbon and nitrogen, various hydrocarbons, ammonia and/or hydrogen chloride vapor. Vapor may be irritating or harmful.

Incompatibility: Strong oxidants such as liquid chlorine, enriched gaseous or liquid oxygen, and sodium or calcium hypochlorite.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:
Low oral toxicity. By analogy to simular materials, the acute LD50 (rat) is expected to be > 2000 mg/kg.

Carcinogenicity:
Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Reproductive Toxicity:
No data for product. No effects anticipated.

Teratoginicity:
No data for product. No effects anticipated.

Mutagenicity:
No data for product. No effects anticipated.

Eye Irritation:
124-04-9 ADIPIC ACID
Severe.

Acute Eye Exposure Effects:
69418-26-4 COPOLYMER ACRYLAMIDE: DMAEA Q.(MeCl)
Product may cause temporatory irritation which should cease upon removal of product. May require extensive irrigation to remove product from eye.

Sub-Chronic:
124-04-9 ADIPIC ACID
Male and female rats exposed to adipic acid in the form of aerosol dust (126 ug/L) for 6 hours a day for 15 days showed no signs of toxicity.

Intravenous LD 50:
124-04-9 ADIPIC ACID
LD50(Mice): 680 mg/kg.

Intraperitoneal LD 50:
124-04-9 ADIPIC ACID
LD50(Mice): 275 mg/kg.

Toxicologically Synergistic Products:
None known.

SECTION 12. ECOLOGICAL INFORMATION

Ecological Information:
This product contains cationic polymer(s) that may be toxic to aquatic organisms when tested in pure (distilled) water. Toxicity is greatly reduced by particles in natural water.

Fish Toxicity:
124-04-9 ADIPIC ACID
24 hr LC50 (Bulegill sunfish): <330 mg/L.
96 hr LC50 (Fathead minnow): 97 mg/L.

69418-26-4 COPOLYMER ACRYLAMIDE: DMAEA Q.(MeCl)
Contains a cationic polyacrylamide. Cationic polyacrylamides are very toxic to aquatic organisms (LC50 values usually < 1 ppm): however, aquatic toxicity is reduced by factors of 10 to 100 times in the presence of 5 to 10 mg/l organic carbon as is found in most surface waters.

Bioaccumulation:
124-04-9 ADIPIC ACID
BCF = 0.68

SECTION 13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class: This product, when unadulterated, is not a RCRA regulated hazardous waste.

Waste Disposal Method: Disposal must be arranged in accordance with local, state and federal regulations. Care must be taken to prevent environmental contamination from the disposal of material, residues and containers.

SECTION 14. TRANSPORT INFORMATION

DOT:
Proper Shipping Name: NOT A DOT/IMO HAZARDOUS MATERIAL

SECTION 15. REGULATORY INFORMATION

US Federal Regulations:

Chemical Weapons Convention (CWC): This product does not contain any chemicals listed under the Chemical Weapons Convention Schedules of Chemicals.

Clean Air Act -Hazardous Air Pollutants (HAP): The following chemical(s) are listed as hazardous air pollutants (HAP) under the U.S. Clean Air Act Section 12 (40 CFR 61):

Chemical Name: ACRYLAMIDE
CASRN: 79-06-1
Percent in Composition: < 0.05% by wt

Clean Air Act - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP): This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (40 CFR 401.15).

Occupational Safety and Health Act (OSHA): This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Resource Conservation and Recovery Act (RCRA): This product is not considered to be a P or U listed hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 302 - Extremely Hazardous Substances (EHS): This product contains the following chemicals regulated under Section 302 (40 CFR 355) as extremely hazardous substances:

Chemical Name: ACRYLAMIDE
CASRN: 79-06-1
Percent in Composition: < 0.05 % by wt

SARA Title III: Section 304 - CERCLA: This product contains the following chemicals regulated under Section 304 (40 CFR 302) as hazardous substance(s) for emergency release notification ("CERCLA" List):

Chemical Name: ADIPIC ACID
CASRN: 124-04-9
Percent in Composition: < 5% by wt
Component RQ: 5000

Chemical Name: ACRYLAMIDE
CASRN: 79-06-1
Percent in Composition: < 0.05 % by wt
Component RQ: 5000

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): Acute health hazard.

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

TSCA Section 5(e) - Consent Order / SNUR: This product is not subject to a Section 5(e) Consent Order or Significant New Use Rule (SNUR).

TSCA Section 8(b) - Inventory Status: All chemical(s) comprising this product are either exempt or listed on the TSCA inventory.

TSCA Section 12(b) - Export Notification: This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

State Regulations:

California Proposition 65: The following is required composition information. This product contains the following chemical(s) which are currently listed on the California list of Known Carcinogens and Reproductive Toxins:

Chemical Name: ACRYLAMIDE
CASRN: 79-06-1
Percent in Composition: < 0.05 % by wt

Massachusetts Right-to-Know: The following is required composition information:

Chemical Name: ADIPIC ACID
CASRN: 124-04-9
Percent in Composition: < 5%

New Jersey Right-to-Know: The following is required composition information:

Chemical Name: COPOLYMER ACRYLAMIDE: DMAEA Q.(MeCl)
CASRN: 69418-26-4

Chemical Name: WATER
CASRN: 7732-18-5

Chemical Name: ADIPIC ACID
CASRN: 124-04-9

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name: COPOLYMER ACRYLAMIDE: DMAEA Q.(MeCl)
CASRN: 69418-26-4
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: WATER
CASRN: 7732-18-5
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: ADIPIC ACID
CASRN: 124-04-9
Comment: Environmental Hazardous Substance

SECTION 16. OTHER INFORMATION

MSDS No:	14593
Reason Issued:	New format
Prepared By:	Leon Knight
Approved By:	
Supersedes Date:	09/12/00

Sections Modified: Section 15.

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The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

NSF Status Maximum use level for potable water: 1 mg/L.

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SHEET 2 OF 2

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