

Use this form to request approval of new chemical additives that are not identified on DEP's Approved List (see www.dep.pa.gov/chemicaladditives). One form should be used for each proposed chemical additive. Upon approval, DEP will add the chemical to the Approved List. **The Material Safety Data Sheet (MSDS) must be attached.**

Permittee Name:	<u>Constellation Energy Generation LLC</u>	Facility Name:	<u>CCEC</u>
Permit No.:	<u>PA0009920</u>	Municipality:	<u>Londonderry Twp</u>
Permit Effective Date:	<u>Nov 1, 2007</u>	County:	<u>Dauphin County</u>
Permit Expiration Date:	<u>Administratively extended</u>		

List All Product Ingredients:

Constituent Name:	CAS #	Percent (%)	By Weight or Volume
Methoxypropylamine	5332-73-0	45	By Weight
	Total:	100	

Analytical Method(s) That May be Used to Determine Effluent Concentration:

Method Detection Limit (mg/L):

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Name/Title Principal Executive Officer

Signature of Principal Executive Officer or
Authorized Agent

Date _____

Trevor L Orth / Plant Manager

January 15, 2025

Phone: 267-533-5559

Email: Trevor.Orth@Constellation.com

3800-FM-BCW0486 Rev. 12/2019



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DEPARTMENT OF ENVIRONMENTAL
PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

NEW CHEMICAL ADDITIVES REQUEST FORM

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CCEC

Indicate who is submitting this form: ☒ Permittee ☐ Manufacturer

Permittee Name: Constellation Energy
Generation LLC
Permit No.: PA0009920
Permit Effective Date: Nov 1, 2007
Permit Expiration Date: Administratively extended

Facility Name: CCEC
Municipality: Londonderry Twp
County: Dauphin County

Trade Name of Chemical Additive: PRE-TECT PT7000
Manufacturer Name: Nalco Company
Intended Use(s): Corrosion Inhibitor
48-Hour LC₅₀ or EC₅₀
(for whole product): 250 mg/L Mysid Shrimp (Mysidopsis bahia)

Species Tested: ☐ Ceriodaphnia sp. ☐ Daphnia sp. ☐ Simocephalus sp.

List All Product Ingredients:

Constituent Name:	CAS #	Percent (%)	By Weight or Volume
Monoethanolamine	141-43-5	45	By Weight
Total:		100	

**Analytical Method(s) That May
be Used to Determine Effluent
Concentration:**

Method Detection Limit (mg/L):

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Trevor L Orth / Plant Manager

Signature of Principal Executive Officer or
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Trevor L Orth

Date

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**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

Phone: 267-533-5559

Email: Trevor.Orth@Constellation.com



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Permit No.: PA0009920
Permit Effective Date: Nov 1, 2007
Permit Expiration Date: Administratively extended
Facility Name: CCEC
Municipality: Londonderry Twp
County: Dauphin County

Trade Name of Chemical Additive: Boric Acid (Borax Decahydrate)
Manufacturer Name: U.S. Borax Inc.
Intended Use(s): Pressurized Water Reactor Treatment
48-Hour LC₅₀ or EC₅₀
(for whole product): 5.7 mg/L - EC10

Species Tested: ☐ Ceriodaphnia sp. ☒ Daphnia sp. ☐ Simocephalus sp.

List All Product Ingredients:

Constituent Name:	CAS #	Percent (%)	By Weight or Volume
Sodium tetraborate decahydrate	1303-96-4	100	>99.4
Total:		100	

Analytical Method(s) That May be Used to Determine Effluent Concentration:

EPA Method 6020B

Method Detection Limit (mg/L):

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Name/Title Principal Executive Officer

Trevor L Orth / Plant Manager

Signature of Principal Executive Officer or
Authorized Agent

Trevor L Orth

Date

03/11/25

Phone: 267-533-5559

Email: Trevor.Orth@Constellation.com



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Trade Name of Chemical Additive:	Li-7 Lithium Hydroxide Monohydrate (7LiOH*H2O)
Manufacturer Name:	NUKEM Isotopes GmbH
Intended Use(s):	pH control
48-Hour LC ₅₀ or EC ₅₀ (for whole product):	62.2 mg/L Zebrafish (Danio rerio) 96hr

Species Tested: ☐ Ceriodaphnia sp. ☐ Daphnia sp. ☐ Simocephalus sp.

List All Product Ingredients:

Constituent Name:	CAS #	Percent (%)	By Weight or Volume
Enriched lithium	76576-68-6		
Anhydrous lithium hydroxide	1310-65-2	>99	
	Total:	100	

Analytical Method(s) That May be Used to Determine Effluent Concentration:

Concentration:	EPA Method 200.7
Method Detection Limit (mg/L):	1

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Name/Title Principal Executive Officer

Trevor L Orth / Plant Manager

Signature of Principal Executive Officer or
Authorized Agent

Authorized Agent
Theresa L. O'Neil

Date _____

03/11/25

3800-FM-BCW0486 Rev. 12/2019



Phone: 717-497-5357

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Email: Trevor.Orth@Constellation.com

NEW CHEMICAL ADDITIVES REQUEST FORM

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Trade Name of Chemical Additive:	Hydrazine 35%
Manufacturer Name:	Arch Chemicals Inc.
Intended Use(s):	Corrosion inhibitor
48-Hour LC₅₀ or EC₅₀ (for whole product):	0.46 mg/L

Species Tested: ☐ Ceriodaphnia sp. ☒ Daphnia sp. ☐ Simocephalus sp.

List All Product Ingredients:

Constituent Name:	CAS #	Percent (%)	By Weight or Volume
Hydrazine, monohydrate	7803-57-8	55	
	Total:	100	

Analytical Method(s) That May be Used to Determine Effluent Concentration:

Concentration:	EPA 8270
Method Detection Limit (mg/L):	0.01

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Name/Title Principal Executive Officer

Trevor L Orth / Plant Manager

Signature of Principal Executive Officer or
Authorized Agent

Authorized Agent
Tina L. O'Neil

Date _____

03/11/25

Phone: 267-533-5559

Email: Trevor.Orth@Constellation.com



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Permit No.:	PA0009920	Municipality:	Londonderry Twp
Permit Effective Date:	Nov 1, 2007	County:	Dauphin County
Permit Expiration Date:	Administratively extended		

Trade Name of Chemical Additive:	Hydrazine 35%
Manufacturer Name:	
Intended Use(s):	Corrosion inhibitor
48-Hour LC ₅₀ or EC ₅₀ (for whole product):	

Species Tested: ☐ Ceriodaphnia sp. ☒ Daphnia sp. ☐ Simocephalus sp.

List All Product Ingredients:

Constituent Name:	CAS #	Percent (%)	By Weight or Volume
Hydrazine, monohydrate	7803-57-8	55	
	Total:	100	

Analytical Method(s) That May be Used to Determine Effluent Concentration:

Method Detection Limit (mg/L): 0.01

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Name/Title Principal Executive Officer

Trevor L Orth / Plant Manager

Signature of Principal Executive Officer or
Authorized Agent

Authorized Agent
Tina L. O'Neil

Date _____

03/11/25

Phone: 267-533-5559

Email: Trevor.Orth@Constellation.com



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Trade Name of Chemical Additive: TRASAR TRAC103
Manufacturer Name: Nalco Company
Intended Use(s): Corrosion Inhibitor
48-Hour LC₅₀ or EC₅₀
(for whole product): 3,026 mg/L

Species Tested: ☒ Ceriodaphnia sp. ☐ Daphnia sp. ☐ Simocephalus sp.

List All Product Ingredients:

Constituent Name:	CAS #	Percent (%)	By Weight or Volume
Sodium Molybdate	7631-95-0	35	by weight
Total:		100	

Analytical Method(s) That May be Used to Determine Effluent Concentration:

Ion Chromatography (IC) , Spectrophotometer

Method Detection Limit (mg/L):

IC- 0.3 , Spectrophotometer- 0.2

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Name/Title Principal Executive Officer

Trevor L Orth / Plant Manager

Signature of Principal Executive Officer or
Authorized Agent

Trevor L Orth

Date

03/11/25

Phone: 267-533-5559

Email: Trevor.Orth@Constellation.com

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Trade Name of Chemical Additive:	Aluminum Sulfate
Manufacturer Name:	Univar
Intended Use(s):	Water Treatment
48-Hour LC ₅₀ or EC ₅₀ (for whole product):	100 mg/L (Carassius auratus) 96 hr

Species Tested: ☐ Ceriodaphnia sp. ☐ Daphnia sp. ☐ Simocephalus sp.

List All Product Ingredients:

Constituent Name:	CAS #	Percent (%)	By Weight or Volume
Sulfuric acid, aluminum salt	10043-01-3	29-50	by weight
Water	7732-18-5	Balance	by weight
	Total:	100	

Analytical Method(s) That May be Used to Determine Effluent Concentration:

EPA-NERL 375.2

Method Detection Limit (mg/L): 3-300

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Name/Title Principal Executive Officer

Trevor L Orth / Plant Manager

Signature of Principal Executive Officer or
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Date _____

03/11/25



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DEPARTMENT OF ENVIRONMENTAL
PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

Phone: 717-497-5357

Email: Trevor.Orth@Constellation.com

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Trade Name of Chemical Additive:	CP 837 Chloride
Manufacturer Name:	Sterling Water Technologies LLC
Intended Use(s):	Corrosion Control / Biocide
48-Hour LC₅₀ or EC₅₀ (for whole product):	0.798 mg/L

Species Tested: ☐ Ceriodaphnia sp. ☒ Daphnia sp. ☐ Simocephalus sp.

List All Product Ingredients:

Constituent Name:	CAS #	Percent (%)	By Weight or Volume
Zinc Chloride	7646-85-7	10-20	
Orthophosphoric Acid	7664-38-2	30-50	
Water	7732-18-5	30-60	
	Total:	100	

Analytical Method(s) That May be Used to Determine Effluent Concentration:

EPA 600/4-79-020 ?

Method Detection Limit (mg/L):

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Trevor L Orth / Plant Manager

Signature of Principal Executive Officer or
Authorized Agent

Authorized Agent
 Terry L. Outh

Date _____

January 15, 2025

Phone: 267-533-5559

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Permittee Name: Constellation Energy
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Facility Name: CCEC
Permit No.: PA0009920
Municipality: Londonderry Twp
Permit Effective Date: Nov 1, 2007
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Permit Expiration Date: Administratively extended

Trade Name of Chemical Additive: OPTIMER 7139 PLUS
Manufacturer Name: Nalco Company
Intended Use(s): Water Treatment
48-Hour LC₅₀ or EC₅₀
(for whole product): 1.20 mg/L

Species Tested: ☐ Ceriodaphnia sp. ☒ Daphnia sp. ☐ Simocephalus sp.

List All Product Ingredients:

Constituent Name:	CAS #	Percent (%)	By Weight or Volume
Adipic Acid	124-04-9	1-5	by weight
Total:		100	

Analytical Method(s) That May
be Used to Determine Effluent
Concentration:

Method Detection Limit (mg/L):

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Trade Name of Chemical Additive: Zinc Acetate Dihydrate
Manufacturer Name: Fisher Scientific
Intended Use(s): Internal boiler water treatment
48-Hour LC₅₀ or EC₅₀
(for whole product): N/A mg/L

Species Tested: ☐ Ceriodaphnia sp. ☐ Daphnia sp. ☐ Simocephalus sp.

List All Product Ingredients:

Constituent Name:	CAS #	Percent (%)	By Weight or Volume
Zinc Acetate Dihydrate Zn(CH ₃ CO ₂) ₂ ·2H ₂ O	5970-45-6	~100	
Total:		100	

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Method Detection Limit (mg/L):

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Facility Name: CCEC

Municipality: Londonderry Twp

County: Dauphin County

Trade Name of Chemical Additive:	Nalcolyte 7134
Manufacturer Name:	Nalco
Intended Use(s):	Radwaste treatment; coagulant
48-Hour LC₅₀ or EC₅₀ (for whole product):	

Species Tested: ☐ Ceriodaphnia sp. ☐ Daphnia sp. ☐ Simocephalus sp.

List All Product Ingredients:

Constituent Name:	CAS #	Percent (%)	By Weight or Volume
	Total:	100	

Analytical Method(s) That May be Used to Determine Effluent Concentration:

Method Detection Limit (mg/L):

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