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STATE OF CONNECTICUT

DEPARTMENT OF ENVIRONMENTAL PROTECTION I CERTIFY THAT THIS DOCUM

NPDES PERMIT

Northeast Nuclear Energy Company

P.O. Box 270

Bartford, CT 06141-0270 RECEIVED

Facility DEFINITIONS ENVIRONMENTAL TOWN OF VALERIOTS ON BURLAL OF MATER LOng Island Sound Vatershed DEC 1 5 1992 Re:

R.G.C.

Mr. R.A. Reckert, Vice President Attention:

This permit is issued in accordance with Section 22a-430 of Chapter 446k, Connecticut General Statutes, and regulations adopted thereunder, as amended, pursuant to an approval dated September 26, 1973, by the Administrator of the United States Environmental Protection Agency for the State of Connecticut to administer a N.P.D.E.S. permit program.

Your application for permit reissuance submitted by Northeast Utilities Service Company on December 1, 1989, has been reviewed by the Connecticut Department of Environmental Protection.

The discharge is subject to the effluent guidelines and standards for the steam electric power generating point source category promulgated on November 19, 1982 pursuant to Section 301 of the Federal Clean Water Act, as amended. Specifically, this discharge is subject to 40 CFR Parts 125 and 423 of the effluent guidelines and standards.

The Commissioner of Environmental Protection (hereinafter "the Commissioner") has determined that the effluent limitations which would require the use of cooling systems at the Millstone Nuclear Power Station, Units 1, 2 and 3 other than the existing once-through system utilized by the applicant for the control of the thermal component of the applicant's discharge are more stringent than necessary to assure the protection and propagation of a balanced indigenous population of shellfish, fish and wildlife in and on the receiving vaters. In the view of this finding, the Commissioner has herein established alternative and less stringent effluent limitations in accordance with Section 316(a) of the Clean Water Act.

However, the Commissioner has also determined that additional evidence based upon actual operating experience of Millstone Nuclear Power Station, Units 1, 2 and 3 would be desirable in order to corroborate the Commissioner's findings. The Commissioner expressly reserves the right to impose more stringent effluent limitations with respect to the thermal component of the Company's discharge pursuant to Section 22a-430 of Chapter 446k, Connecticut General Statutes should further investigation of the effect of the Company's discharge fail to corroborate the Commissioner's determination that more stringent effluent limitations are not necessary to assure the protection and propagation of a balanced indigenous population of the shellfish, fish and wildlife in and on the receiving waters. Such data will be generated by the studies to be conducted pursuant to paragraph 5. of this permit.

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The Commissioner has determined that the location, design, construction and capacity of the cooling water intake structure represents the best available technology for minimizing adverse environmental impact from impingement and entrainment pursuant to Section 316(b) of the Federal Act. The Commissioner has also determined that additional evidence based upon actual operating experience of Millstone Nuclear Pover Station, Units 1, 2 and 3 would be desirable in order to corroborate the Commissioner's findings. Such data will be generated by the studies to be conducted pursuant to paragraphs 5. and 8. of this permit.

The Permittee should take tognizance of the fact that additional evidence may result in the imposition of more stringent requirements and the potential utilization of a cooling system other than the one utilized. Accordingly, the company should take this potential into consideration in their design wherever feasible.

Your discharge toxicity evaluation (DTE), submitted by Northeast Utilities Environmental Laboratory on December 28, 1988, has been reviewed by the Connecticut Department of Environmental Protection, has been found to be consistent with Section 22a-430-4(c)(21) of the Regulations of Connecticut State Agencies and is hereby approved in accordance with Section 22a-430 of Chapter 446k, Connecticut General Statutes.

The Commissioner has found that the discharges will not cause pollution of the waters of the state when all the conditions of this permit have been met. This action is further found to be consistent with the applicable policies of the Connecticut Coastal Hanagement Act (Section 22s-92 of the Connecticut General Statutes).

The Commissioner has determined that Northeast Nuclear Energy Company is in full compliance with Order ID. VC4107 entered on October 18, 1985. The Commissioner, acting under Section 22a-430, hereby permits Northeast Nuclear Energy Company to discharge wastevaters in accordance with the following conditions:

- . 1. The vastevaters shall be collected, treated and/or discharged in accordance with the above referenced application and all approvals issued by the Commissioner or his authorized agent for the discharges and/or activities authorized by or associated with this permit.
 - 2. Monitoring and reporting of radioactive liquid releases are performed in accordance with 10 CFR 20 "Standards for Protection Against Radiation". Biannual monitoring reports are submitted to the Federal Nuclear Regulatory Commission and the Commentature Department of Environmental Protection, Bureau of Air Management, Radiation Comment Division, Monitoring and reporting includes:

- a) Gross radioactivity (less tritium, gases and alpha)
 - 1) total release (curies)
 - average concentration released (uCi/ml)
- b) Tritium
 - 1) total release (curies)
 - average concentration released (uCi/ml)
- c) Dissolved gases
 - 1) total release (curies)
 - 2) average concentration released (uCi/ml)
- d) Gross alpha
 - 1) total release (curies)
 - 2) average concentration released (uCi/ml)
- e) Volume of liquid waste discharged (liters)
- f) Volume of dilution water (liters)
- g) Isotopes released (curies)
- h) Percent of 10 CFR 20, Appendix B, Table II for total release
- Percent of technical specification limit if different from 10 CFR 20, for the total release if such specifications are established by N.R.C.
- 3. The discharges shall not exceed and thall otherwise conform to specific terms and conditions listed below. The discharges shall be monitored and results reported to the Vater Management Bureau (Attn: DMR Processing) by the end of the month after the month in which samples are taken according to the following schedule:
 - A. Discharge Serial No. DD1-1

 Monitoring Location: 1

 Description: Discharge Points at Quarry Cut (East & West)

 (Discharge Code 102000a)

 Receiving Stream: Long Island Sound (Basin Code 2000)

 Present/Future Water Quality Standard: SA/SA

 Maximum Daily Flow: 2,738,000,000 gallons per day
 - (1) The pH of the discharge shall not be less than 6.0 or greater than 9.0 (Code 00400-012).
 - (2) The discharge shall not contain or cause in the receiving waters a visible oil sheen or floating solids.
 - (3) The discharge shall not cause visible discoloration or foaming in the receiving waters.
 - (4) The maximum temperature of the discharge shall be 105°F and the maximum temperature increase at the Quarry Cut above the intake water temperature shall be 32°F.
 - (5) The differential temperature increase at the Quarry Cut above the intake water temperature under unusual conditions may be increased to 44 F for a period not exceeding 24 hours. In the event the temperature differential exceeds 32 F, the Department of Environmental Protection shall be immediately notified and a written report of the incident filed.

- (5) The permittee shall operate all facilities in such a manner as not to raise the average temperature of the receiving waters more than 4°F or increase the normal temperature of the receiving waters above 83°F. For purposes of this condition, cognizance will be given to reasonable time and distance to allow mixing of effluent and receiving waters, but the boundary of the mixing zone shall not exceed a radius of 8,000 feet from the discharge outlet at the quarry cut.
- (7) The thermal plume allowed within the permissible mixing zone as defined by these conditions shall not block zones of fish passage.
- (8) The discharge and operation of all facilities shall not alter significantly the color, turbidity, taste, odor or levels of coliform bacteria from ambient levels in the receiving vaters; nor shall the level of dissolved oxygen in the receiving vaters fall below 5.0 mg/l as a result of such distharge.
- (9) The total residual chlorine concentration in the discharge at the Quarry Cut shall not exceed D.1 mg/l at any time.
- (10) Free available chlorine shall not be discharged in the condenser cooling water of any one unit for more than two hours in any one day.
- (11) Free available chlorine shall not be discharged in the condenser cooling water of more than one unit at any one time.
- (12) The discharge shall contain no other chemical constituents in concentrations and combinations which are harmful to human, animal or aquatic life, or which make the waters unsafe or unsuitable for fish or shellfish or their propagation, impair the palatability of same, or impair the waters for others uses.

Parameter	Code	Haximum Instant. Li <u>nits</u>	Minimum Frequency of Sampline	Sample Type
			***	•
PH	00400-012	See (1) Above	Hourly (c)	Instantaneous
Temperature	00011-015	See (4) Above	Hourly	Instantaneous
Free Available Chlorine	50064-019		Veckly	Grab
Total Residual	50060-019	0.1 mg/l	Veekly	Grab

- (a) Report the following data:
 - 1) Daily range of pH
 - 2) Daily range of flow
 - 3) Daily maximum temperature (DF)
 - 4) Daily minimum temperature
 - 5) Daily average temperature
 - 6) Monthly standard deviation of temperature
 - 7) Daily maximum temperature increase
 - B) Daily minimum temperature increase
 - 9) Daily average temperature increase
 - 10) Bonthly standard deviation of temperature increase
 - 11) Monthly maximum heat load (BTU/hr.)
 - 12) Bonthly minimum heat load
 - 13) Eonthly average heat load
 - 14) Mobibly maximum rate of change of hear load
 - 15) Monthly standard deviation of heat load
- (b) The permittee shall record the instantaneous flow (Code 00058-078) at the time of grab sample collection.
- (c) The permittee shall monitor pH manually every four hours whenever the automated pH monitoring equipment malfunctions.
- (d) The report shall include a detailed explanation of any violations of the limitations specified above.
- B. Discharge Serial No. 001-A Monitoring Location: 1 Description: Unit No. 1 Discharge (Discharge Code 102000a) Maximum Daily Flow: 604,800,000 gallons per day Maximum Temperature: 105°F Average Design Temperature Increase: 22,5°F
 - (1) The maximum temperature increase at the Unit No. 1 discharge above the intake water temperature shall be 32°F.
 - (2) The differential temperature increase at the Unit No. 1 discharge above the intake water temperature may be increased to 44°F for a period not exceeding 24 hours under conditions of reduced cooling water flow. In the event the temperature differential exceeds 32°F, the Department of Environmental Protection shall be notified in the monthly monitoring report.
 - (3) The normal operating procedures include, usually not more than 12 times a year, the elevation of the intake water temperature on each condenser by a thermal backwash process required for the control of sea mussels. The true temperature difference between the receiving stream and discharge water shall be allowed to exceed the permit limit for brief periods during this treatment schedule.

- (4) Free available chlorine shall not be discharged in the condenser cooling water for more than two hours in any one day. Free available chlorine shall not be discharged in the condenser cooling water of more than one unit at any one time.
- (5) The pH of the discharge shall not be less than 6.0 or greater than 9.0 (Code 00400-012).

Parameter	Code	Haximum Instant. Limits	Minimum Frequency of Sampline	Sample Type
Aquatic Toxicity. Acute	C0019-09A	See paragraph 3.B. (6) below	Quarterly	Daily Composite
Aquatic Toxicity, Chronic	C0020-09A	See paragraph 3.E. (6) below	Quarterly	Daily Composite
Flov	74076-007		Hourly	Instantaneous
b _E	00400-022		Hourly (b)	Instantaneous
Temperature DF	00011-015		Eourly	Instantaneous
Free Available Chlorine	50064-019	0.25 mg/l	Weekly (c)	Grab
Free Available Chlorine	50064-001	573.04 kg/d	Veekly (b)	Grab

- (a) Report the following data:
 - 1) Daily range of pH
 - 2) Daily range of flow
 - Daily maximum temperature (^DF)
 - 4) Daily minimum temperature
 - 5) Daily average temperature
 - (6) Monthly standard deviation of temperature
 - 7) Daily maximum temperature increase
 - B) Daily minimum temperature increase
 - 9) Daily average temperature increase
 - 10) Bonthly standard deviation of temperature increase
 - 11) Monthly maximum heat load (BTU/hr.)
 - 12) Monthly minimum heat load
 - 13) Bonthly average heat load
 - 14) Monthly maximum rate of change of heat load
 - 15) Monthly standard deviation of heat load
 - 16) Total flow during chlorination period each sampling day
 - 17) Total daily flow
- (b) The permittee shall monitor pH manually every four hours whenever the automated pH monitoring equipment malfunctions.
- (c) Whenever Unit No. 1 is operating, weekly monitoring of free available chlorine shall be performed when chlorination of condenser cooling water occurs.

- (d) The report shal noting a detailed explanation of any violations of the ampitations specified above.
- (6) Effective upon issuance and thereafter a daily composite sample of the effluent shall not exhibit acute or chronic toxicity in the receiving waterbody.
 - (a) Compliance with this permit condition shall be achieved when:
 - (i) the Daily Flow of the discharge is greater than or equal to 43,200,000 gallons and there is no significant mortality in a daily composite sample of the effluent at a concentration equal to or greater than an NOAEL = 1001 as determined by the pass/fail methodology in Section 22a-430-3(j)(7)(A) of the Regulations of Connecticut State Agencies; or
 - (ii) the Daily Flow of the discharge is less than 43,200,000 gallons and there is no significant mortality in a daily composite sample of the effluent at a concentration equal to or greater than an NOAEL = 45% as determined by the pass/fail methodology in Section 22a-430-3(j)(7)(A) of the Regulations of Connecticut State Agencies.
 - (b) Monitoring to determine compliance with this limit shall be performed Quarterly (January, April, July, October) following the toxicity testing protocol for static acute toxicity tests in "Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms" (EPA 600/4-85/013) with the following specifications:
 - (i) Mysidopsis behis (5 days old or less) and Cyprinodon veriegatus (30 +/- 5 days old) shall be used as test organisms
 - (ii) Synthetic or natural seawater adjusted to a salinity of 28-32 ppt shall be used as dilution water in the tests.
 - (iii) Test duration shall be 48 hours for Mysidopsis bahis AND 96 hours for Cyprinodon varianstus.
 - (c) Any test in which the survival of test organisms is less than minety (90) percent in each replicate control test chamber or failure to achieve test conditions as specified in Section 22a-430-3(j)(7)(A) of the Regulations of Connecticut State Agencies, such as maintenance of appropriate environmental controls, shall constitute an invalid test and will require immediate retesting. Failure to submit valid test results constitutes a permit violation.

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(d) Results of the toxicity tests required as part of this permit condition shall be entered on the Discharge Honitoring Report (DHR) for the month in which it was performed, using the appropriate parameter code. Additionally, complete and accurate test data, including all supporting chemical/physical measurements performed in association with the toxicity tests, as well as dose/response data shall be entered on the Aquatic Toxicity Monitoring Report form (ATMR). The ATMR shall be sent to the following address:

Aquatic Toxicity
Connecticut Department of Environmental Protection
Vater Compliance Unit
122 Vashington Street
Eartford, CT 06106

- (e) If any test result indicates that the maximum daily toxicity limit for the effluent has been exceeded, a second sample of the effluent shall be collected and tested as described above and the results reported to the Commissioner within 30 days of the receipt of the first set of test results.
- (f) If any two consecutive test results or any three test results in a single year indicate that the maximum daily toxicity limit has been exceeded, the permittee shall immediately take all reasonable steps to eliminate toxicity wherever possible and shall submit a report for the review and approval of the Commissioner in accordance with Section 22a-430-3(j)(10)(c) of the Regulations of Connecticut State Agencies describing proposed steps to eliminate the toxic impact of the discharge on the receiving waterbody. Such a report shall include a proposed time schedule to accomplish toxicity reduction.
- (7) The discharge shall contain no net increase in any of the metal parameters listed below, except as allowed in accordance with this permit. Sampling shall be conducted concurrently at both the intake and effluent at the frequency stated.

Parareter	Code	Minimum Frequency of Sampling	Sample Type
Total Copper	01042-028	Quarterly	Daily Composite
Total Lead	01051-028	Quarterly	Daily Composite
Total Nickel	01067-028	Quarterly	Daily Composite
Total Zinc	01092-028	Quarterly	Daily Composite
Ammonia - N	00610-028	Quarterly	Daily Composite
Total Suspended Solids	00530-028	Quarterly	Daily Composite
Surfactants- Anionic	38260-028	Quarterly	Daily Composite
Oil & Grease- T	70030-028	Quarterly	Grab

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C. Discharge Serial No. 001A-1 Monitoring Location: 1

Description: Unit No. 1 Radiation Vaste Sampling Tank Discharge

(Discharge Code 1170000)

Maximum Flow per Batch: 30,000 gallons
Haximum Frequency of Discharge: One per day

Expected Frequency: One per day

Parareter	Code	Minimum Frequency of Sampling	Sample Type
Specific	00095-011	Veckly	Grab
Conductivity pH	00400-012	Veekly	Grab

- (n) The permittee shall record the total flow (Code 74076-007) and the number of hours of discharge (Code 81381-079) for each day of sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- (c) Radiation monitoring is performed in accordance with Paragraph 2. above.
- D. Discharge Serial No. 001A-2

Monitoring Location: 1

Description: Unit No. 1 Floor Drain Radiation Sample Tank

(Discharge Code 153000N)

Maximum Flow per Batch: 14,000 gallons

Maximum Frequency of Discharge: Two per day

Expected Frequency: One per day

(1) The maximum concentration specified below shall not be exceeded at any time.

Parareter	Çode	Harimum Quantity Per Batch	Maximum Concentration Per Batch	Minimum Frequency of Sampling	Sample Type
Total Suspended	00530-019	1.9 kg	45.0 mg/l	Veekly	Grab
Solids PE	00400-012			Veckly	Grab

- (a) The permittee shall record the total flow (Code 74076-007) and the number of hours of discharge (Code 81381-079) for each day of sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.

(c) Radiation monitoring is performed in accordance with Paragraph 2 above.

E. Discharge Serial No. 001A-2(a)
Monitoring Location: 1

Description: Long Term Freon Distillation Unit Discharge

(Discharge Code 1150080)

Maximum Flow per Batch: 220 gallons

Maximum Frequency of Discharge: One per day

Expected Frequency: Five per year

(1) The maximum concentrations specified below shall not be exceeded at any time.

Parameter	Code	Maximum Concentration Per Batch	Minimum Frequency of Sappline	Sample Type
Freen Dil & Grease, Total	70015-019 70030-019	2.0 mg/l 20.0 mg/l	Daily (c) Daily (c)	Grab Grab

- (a) The permittee shall record the total flow (Code 74076-007) and the number of hours of discharge (Code 81381-079) for each day of sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- (c) Sampling daily required only when discharge occurs.
- F. Discharge Serial No. 001A-2(b)

 Monitoring Location: 1

 Description: Freon Distillation Unit Discharge
 (Discharge Code 1150080)

 Maximum Flow per Batch: 6,500 gallons

 Maximum Frequency of Discharge: One time only
 - (1) The maximum concentrations specified below shall not be exceeded at any time.

Parameter	Code	Karimum Concentration Per Batch	Minimum Frequency of Sampling	Sample Type
Freon Oil & Grease, Total	70015-019 70030-019	2.0 mg/l 20.0 mg/l	Daily (c)	Grab Sample Ave: Grab Sample Ave:

(a) The permittee shall record the total flow (Code 74076-007) and the number of hours of discharge (Code 81381-079) for each day of sample collection.

- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- (c) Sampling daily required only when discharge occurs.
- G. Discharge Serial No. 001A-3 Description: Outside Tank Area Rainvater Collection Discharge (Discharge Code 108000N) Flow: Intermittent
 - Radiation monitoring is performed in accordance with Paragraph 2 above.
- E. Discharge Serial No. 001A-4

 Monitoring Location: 1

 Description: Unit No. 1 Radiation Decontamination Solution Tank

 Discharge (Discharge Code 1060000)

 Maximum Flow per Batch: 3,500 gallons

 Maximum Frequency of Discharge: Two per day

 Expected Frequency: One per day
 - (1) The maximum concentration specified below shall not be exceeded at any time.

Parazete:	Code	Maximum Quantity Per Eastch	Maximum Concentration Per Batch	Minimum Frequency of Sampling	Sample Type
Boric Acid Boric Acid	00698-019	7.6 kg	574. mg/l	Weekly (c) Weekly (c)	Grab Grab

- (a) The permittee shall record the total flow (Code 74076-007) and the number of hours of discharge (Code \$1381-079) for each day of sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- (c) Sampling weekly for boric acid is required only when boric acid is being used.
- (d) Radiation monitoring is performed in accordance with Paragraph 2 above.
- I. Discharge Serial No. 001A-5

 Monitoring Location: 1

 Description: Unit No. 1 Auxiliary Heat Exchanger (Service Water)

 Discharge (Discharge Code 102000d)

 Maximum Daily Flow: 43,200,000 gallons per day
 - (1) The temperature of the discharge shall not exceed 90°F.

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Parameter	Code	Maximum Instant. Limits	Minimum Frequency of Sampline	Sample Type
Temperature of Free Available Chlorine	00011-015 30064-019	See Note (1) above 0.25 mg/l	Weekly Weekly	Instantaneous Grab

- (a) The permittee shall record the instantaneous flow (Code 00058-078) at the time of grab sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- J. Discharge Serial No. DD1-B

 Monitoring Location: 1

 Description: Unit No. 2 Discharge

 (Discharge Code 102000d)

 Maximum Daily Flow: 820,000,000 gallons per day

 Maximum Temperature: 105°F

 Average Design Temperature Increase: 24°F
 - (1) The maximum temperature increase at the Unit No. 2 discharge above the intake water temperature shall be 32°F.
 - (2) The differential temperature increase at the Unit No. 2 discharge above the intake water temperature may be increased to 44°F for a period not exceeding 24 hours under conditions of reduced cooling water flow. In the event the temperature differential exceeds 32°F, the Department of Environmental Protection shall be notified in the monthly monitoring report.
 - (3) The normal operating procedures include, usually not more than 12 times a year, the elevation of the intake water temperature on each Condenser by a thermal backwash process required for the control of sea mussels. The true temperature difference between the receiving stream and discharge water shall be allowed to exceed the permit limit for brief periods during this treatment schedule.
 - (4) Free available chlorine shall not be discharged in the condenser cooling water for more than two hours in any one day. Free available chlorine shall not be discharged in the condenser cooling water of more than one unit at any one time.
 - (5) The pH of the discharge shall not be less than 6.0 or greater than 9.0 (Code 00400-012).

Parameter	Code	Maximu Daily Linits	Frequency	Sample Type
Aquatic Texicity, Acute	C0019-09A Se	e paragraph 3.J.(6)	below Quarterly	Daily Composite
Aquatic Toxicity, Chronic	C0020-09A Se	e paragraph 3.J.(6)	below Quarterly	Daily Composite
Flow	74076-007		Hourly	Instantaneous
PH	00400-012		Hourly (b)	Instantaneous
Temperature oF	00011-015		Hourly	Instantaneous
Free Available Chlorine	50064-019	D.25 m	g/l Veekly (c)	Grap
Free Available Chlorine	50064-001	737.15	kg/d Veckly (c)	Grab

- (a) Report the following data:
 - 1) Daily range of pH
 - 2) Daily range of flow
 - 3) Daily maximum temperature (°F)
 - 4) Daily minimum temperature
 - 5) Daily average temperature
 - 6) Monthly standard deviation of temperature
 - 7) Daily maximum temperature increase .
 - B) Daily minimum temperature increase
 - 9) Daily average temperature increase
 - 10) Monthly standard deviation of temperature increase
 - 11) Eonthly maximum heat load (BTU/hr.)
 - 12) Monthly minimum heat load
 - 13) Eonthly average heat load
 - 14) Monthly maximum rate of change of heat load
 - 15) Monthly standard deviation of heat load
 - 16) Total flow during chlorination period each sampling day
 - 17) Total daily flow
- (b) The permittee shall monitor pH manually every four hours whenever the automated pH monitoring equipment malfunctions.
- (c) Whenever Unit No. 2 is operating, weekly monitoring of free available chlorine shall be performed when chlorination of condenser cooling water occurs.
- (d) The report shall include a detailed explanation of any violations of the limitations specified above.
- (6) Effective upon issuance and thereafter a daily composite sample of the effluent shall not exhibit acute or chronic toxicity in the receiving waterbody.
 - (a) Compliance with this permit condition shall be achieved when:

- (i) the Daily Flow of the discharge is greater than or equal to 28,800,000 gallons and there is no significant mortality in a daily composite sample of the effluent at a concentration equal to or greater than an NOATL = 1001 as determined by the pass/fail methodology in Section 22a-430-3(j)(7)(A) of the Regulations of Connecticut State Agencies; or
- (ii) the Daily Flow of the discharge is less than 28,800,000 gallons and the LC₅₀ value of a daily composite sample of the effluent is equal to or greater than an LC₅₀ 851. In determining LC₅₀ value, five (5) test concentrations, in duplicate, shall be utilized and the LC₅₀ value shall be determined by the computational method (Binomial Distribution, Probit Analysis, Moving Average Angle, Spearman-Karber) which yields the smallest 951 confidence interval and LC₅₀ value which is consistent with the dose-response data.
- (b) Monitoring to determine compliance with this limit shall be performed Quarterly (January, April, July, October) following the toxicity testing protocol for static acute toxicity tests in "Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms" (EPA 600/4-85/013) with the following specifications:
 - (i) <u>Mysidopsis</u> <u>bahis</u> (5 days old or less) and <u>Cyprinodop</u> <u>varietatus</u> (30 +/- 5 days old) shall be used as test organisms
 - (ii) Synthetic or natural seawater adjusted to a salinity of 26-32 ppt shall be used as dilution water in the tests.
 - (iii) Test duration shall be 48 hours for <u>Evsidonsis</u> bahia <u>AND</u> 96 hours for <u>Cyprinodon variegatus</u>.
- (c) Any test in which the survival of test organisms is less than ninety (90) percent in each replicate control test charber or failure to achieve test conditions as specified in Section 22s-430-3(j)(7)(A) of the Regulations of Connecticut State Agencies, such as maintenance of appropriate environmental controls, shall constitute an invalid test and will require immediate retesting. Failure to submit valid test results constitutes a permit violation.

(d) Results of the toxicity tests required as part of this permit condition shall be entered on the Discharge Honitoring Report (DHR) for the month in which it was performed, using the appropriate parameter code. Additionally, complete and accurate test data, including all supporting chemical/physical measurements performed in association with the toxicity tests, as well as dose/response data shall be entered on the Aquatic Toxicity Monitoring Report form (ATMR). The ATMR shall be sent to the following address:

Aquatic Toxicity
Connecticut Department of Environmental Protection
Vater Compliance Unit
122 Vashington Street
Eartford, CT 06106

- (e) If any test result indicates that the maximum daily toxicity limit for the effluent has been exceeded, a second sample of the effluent shall be collected and tested as described above and the results reported to the Commissioner within 30 days of the receipt of the first set of test results.
- (f) If any two consecutive test results or any three test results in a single year indicate that the maximum daily toxicity limit has been exceeded, the permittee shall immediately take all reasonable steps to eliminate toxicity wherever possible and shall submit a report for the review and approval of the Commissioner in accordance with Section 22a-430-3(j)(10)(c) of the Regulations of Connecticut State Agencies describing proposed steps to eliminate the toxic impact of the discharge on the receiving waterbody. Such a report shall include a proposed time schedule to accomplish toxicity reduction.
- (7) The discharge shall contain no net increase in any of the metal parameters listed below, except as allowed in accordance with this permit. Sampling shall be conducted concurrently at both the intake and effluent at the frequency stated.

Parameter	Code	Minimum Prequency of Sampling	Sample Type
Total Copper	01042-028	Quarterly	Daily Composite
Total Lead	01051-028	Quarterly	Daily Composite
Total Nickel	01067-028	Quarterly	Daily Composite
Total Zinc	01092-028	Quarterly	Daily Composite
Ammonia - N	00610-028	Quarterly	Daily Composite
Total Suspended Solids	00530-028	Quarterly	Daily Composite
Surfactants Anionic	38260-028	Quarterly	Daily Composite
Oil & Grease-Total	70030-028	Quarterly	Grab

K. Discharge Serial No. 0018-1

Monitoring Location: 1 Description: Unit No.

Unit No. 2 Blowdown Tank and Blowdown Quench Tank Discharge (Including Boric Acid From Steam Generator Treatment)(Discharge Code 101060z)

Maximum Daily Flow: 1,440,000 gallons per day

- (1) The temperature of the discharge shall not exceed 220°F.
- (2) Prior to the use of diaminosthane the permittee must submit for the review and approval of the Commissioner an engineering report on process modifications.

Paraneter	Code	Maximum Daily Ousntity	Maximum Instant. Limits	Minimum Frequency of Sampling	Sample Type
Temperature OF	00011-015	See	(1) Above	Veckly	Instantaneous
Total Suspended Solids	00530-019		30.0 mg/l	Veekly	Grab
Total Suspended Solids	00530-056	46.8 kg/d		Veekly	Grab
Borit Acid	00698-056	117. kg/d		Veckly	Grab
Ethanolazine	00196-019	-	10.0 mg/l	Veekly	Grab
Distincethane	00195-019		See Note (b)	Belov	

- (a) The permittee shall record the total flow (Code 74076-007) and the number of hours of discharge (Code B1381-079) for each day of sample collection and/or the instantaneous flow (Code D0058-078) at the time of grab sample collection.
- (b) Monitoring for disminorthane shall be performed as approved by the Commissioner in accordance with Paragraph R.(2) above.
- (c) The report shall include a detailed explanation of any violations of the limitations specified above.
- (d) Sampling for boric acid required only when boric acid treatment of steam generator occurs.
- (e) Radiation monitoring is performed in accordance with Paragraph 2 above.
- L. Discharge Serial No. 001B-1(a)

Monitoring Location: 1

Description: Unit No. 2 Steam Generator Secondary Side Wet Layup Drainage Discharge (Discharge Code 117000a)

Marinum Flow per Batch: 70,000 gallons
Marinum Frequency of Discharge: Two per day

Expected Frequency: Six per year

- (1) The temperature of the discharge shall not exceed 150°F.
- (2) A minimum of two (2) condenser circulating pumps shall be in service on Unit 2 during discharge.
- (3) No two (2) steam generators may discharge secondary side wet layup drainage at any one time.
- (4) Prior to the use of diaminoethane the permittee must submit for the review and approval of the Commissioner an engineering report on process modifications.
- (5) The maximum concentrations specified below shall not be exceeded at any time.

Parameter	Çoğe	Maximum Quantity Per Batch		Minimum Frequency of Sampling	Sample Type
Temperature PF	00011-015	See	(1) Above	Daily (c)	Instantaneous
Hydrazine	81313-019		125 mg/1	Daily (c)	GT&b
Eydrazine	81313-001	33.12 kg/d		Daily (c)	Grab
Ethanolamine Diaminoethane	CO195-019		5.0 mg/l See Note (b) I	Daily (c) Selov	Grab

- (a) The permittee shall record the instantaneous flow (Code 00058-078) at the time of grab sample collection.
- (b) Monitoring for disminoethane shall be performed as approved by the Commissioner in accordance with Paragraph L.(4) above.
- (c) Daily sampling required only when discharging steam generator secondary side wet layup drainage.
- (d) The report shall include a detailed explanation of any violations of the limitations specified above.
- (e) Radiation monitoring is performed in accordance with Paragraph 2 above.
- E. Discharge Serial No. 001B-2

Monitoring Location: 1

Description: Unit No. 2 Aerated Vaste Radiation Homitor Tank Discharge (Discharge Code 117000a)

Maximum Flow per Batch: 5,000 gallons Maximum Frequency of Discharge: Three per day Expected Frequency: Two per day

 The maximum concentration specified below shall not be exceeded at any time.

. (2) A minimum of two (2) condenser circulating pumps shall be in service on Unit 2 during discharge except during Unit 2 shutdowns. During Unit 2 shutdowns, the maximum discharge flow shall be 30.5 gallons per minute and a minimum flow equivalent to (2) two service water pumps shall be in service on Unit 2 during discharge.

Parameter	Code	Maximum Quantity Per Batch	Maximum Concentration Per Batch		Sample Type
Total Suspended Solids	00530-019		45.0 mg/l	Veckly	Grab
Boric Acid pH	00698-036 00400-012			Veekly Veekly	Grab Grab

- (a) The permittee shall record the total flow (Code 74076-007) and the number of hours of discharge (Code 81381-079) for each day of sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- (c) Radiation monitoring is performed in accordance with Paragraph 2 above.
- N. Discharge Serial No. 001B-2(a)

Monitoring Location: 1

Description: Unit No. 2 Steam Generator Chemical Cleaning Wastevaters Discharge (Discharge Code 101070a)

Maximum Flow per Batch: 107,000 gallons Maximum Frequency of Discharge: One per day Expected Frequency: One per year

- (1) The maximum concentrations specified below shall not be exceeded at any time.
- (2) A minimum of two (2) condenser circulating pumps shall be in service on Unit 2 during discharge.
- (3) Sixty days prior to performing themical cleaning of the steam generator the permittee must submit for the review and approval of the Commissioner an angineering report on process modifications.

Parameter	Code	Maximum Daily Concentration Per Batch	Minimum Frequency of Secoline	Sample Type
Biochemical Oxygen Demand <u>5</u>	00310-019		Daily	Daily Composite
Chemical Oxygen Demand	81017-019		Daily	Daily Composite
Ammonia - N	00610-019		Daily	Daily Composite
Copper-Total	01042-019	1.0 mg/1	Daily	Daily Composite
Iron-Total	01045-019	1.0 mg/l	Daily	Daily Composite
Beryllium-Total	01012-019		Daily	Daily Composite
Cadmium-Total	01027-019	0.1 mg/1 .	Daily	Daily Composite
Chronium-Total	01034-019	1.0 mg/l	Daily	Daily Composite
Lead-Total	01051-019	0.1 mg/l	Daily	Daily Composite
Nickel-Total	01067-019	1.0 mg/l	Daily	Daily Composite
Zinc-Total	01092-019	1.0 mg/1	Daily	Daily Composite
PH	00400-012		Eourly	Range During
Total Suspended Solids	00530-019		Daily	Composite Daily Composite
Dil and Grease-T	70030-019	10.0 mg/l	Daily	Grab

- (a) The permittee shall record the total flow (Code 74076-007) and the number of hours of discharge (Code 81381-079) for each day of sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- (c) Sampling required only when steam generator chemical cleaning discharge occurs,
- Ď. Discharge Serial No. 001B-2(b)

Monitoring Location: 1

Description: Unit No. 2 Steam Generator Chemical Decontamination Wastevater Discharge (Discharge Code 101060y)

Maximum Flow per Batch: 30,000 gallons Maximum Frequency of Discharge: One per day Expected Frequency: One per year

- (1) The pH of the discharge shall not be less than 6.0 or greater than 9.0 (Code 00400-012).
- (2) The maximum concentrations specified below shall not be exceeded at any time.
- (3) A minimum of two (2) condenser circulating pumps shall be in service on Unit 2 during discharge.

(4) Sixty days prior to performing chemical decontamination of the steam generator the permittee must submit for the review and approval of the Commissioner an engineering report on process modifications.

Parapeter	Code	Concen	tration	Minimum Frequency of Sampline		Emple
Biochemical	00310-019		;	Daily	Daily	Composite
Oxygen Demand5 Chemical Oxygen Demand	81017-019			Daily	Daily	Composite
Citric Acid	77666-019			Daily	Daily	Composite
Oxalic Acid	77081-019			Daily		Composite
Nitric Acid	C0091-019			Daily		Composite
Permanganate	C0109-019			Daily		Composite
Ethylenediamine	78151-019			Daily		Composite
Tetraboetic Aci	-					
Hydrogen Peroxide				Daily		Composite
Formic Acid	77006-019			Daily		Composite
Copper-Total	01042-019	1.0 m	ng/1	Daily	Daily	Composite
Iron-Total	01045-019	1.0 m	mg/1	Daily	Daily	Composite
Cadmium-Total	01027-019	0.1 m	cg/1	Daily	Daily	Composite
Chronium-Total	01034-019	1.0 m	tg/1	Daily	Daily	Composite
Lead-Total	01051-019	0.1 m	tg/1	Daily	Daily	Composite
Nickel-Total	01067-019	1.0 m	Eg/1	Daily	Daily	Composite
Zinc-Total	01092-019	1.0 m	g/1	Daily		Composite
Total Suspended Solids	00530-019	30.0	rg/1	Daily	Daily	Composite
PE	00400-019	See (1) Above		Eourly	Range	During site
Oil and Grease-T	70030-019	30.0 g	mg/l	Daily	Gr	

- (a) The permittee shall record the total flow (Code 74076-007) and the number of hours of discharge (Code 81381-079) for each day of sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- (c) Sampling required only when discharging steam generator chemical decontamination wastewater.
- (d) Sampling required only for parameters included in the process approved by the Commissioner in accordance with Paragraph O.(4) above.

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P. Discharge Serial No. 001B-3

Monitoring Location: 1

Description: Unit No. 2 Coolent Faste Radiation Monitor Tank

Discharge (Discharge Code 1170000)
Haximum Flow per Batch: 30,000 gallons Haximum Frequency of Discharge: Two per day Expected Frequency: One per day

- (1) The maximum concentration specified below shall not be exceeded at any time.
- (2) A minimum of two (2) condenser circulating pumps shall be in service on Unit 2 during discharge except during Unit 2 shutdowns. During Unit 2 shutdowns, the maximum discharge flow shall be 30.5 gallons per minute and a minimum flow equivalent to (2) two service water pumps shall be in service on Unit 2 during discharge.

Parameter	Code	Maximum Quantity Per Batch	Maximum Concentration Per Batch	Minimum Frequency of Sampline	Sample Type
Total Suspended	00530-019		22.5 mg/l	Veekly	Grab
Solids Botic Acid	00698-001	700 kg/d		Weekly	Grab

- (a) The permittee shall record the total flow (Code 74076-007) and the number of hours of discharge (Code 81381-079) for each day of sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- (c) Radiation monitoring is performed in accordance with Paragraph 2. above.
- Discharge Serial No. 001B-5 Monitoring Location: 1 Description: Unit No. 2 Auxiliary Beat Exchanger (Service Vater Discharge) (Discharge Code 102000d) Maximum Daily Flow: 28,800,000 gallons
 - (1) The temperature of the discharge shall not exceed 950 F.

Parameter	Code	Maximum Instant. Lipits	Minimum Frequency of Sarpling	Sample Type
Temperature F Free Available Chlorine	00011-015	See (1) Above 0.25 mg/l	Weekly Weekly	Instantaneous Grab

- (a) The permittee shall record the instantaneous flow (Code 00058-078) at the time of grab sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- R. Discharge Serial No. 001B-6

Monitoring Location: 1

Description: Unit No. 2 Condensate Polisher Regeneration Wastewater Neutralization Tank Discharge Including System Floor Drains, Plant Equipment Washwater, and Boric Acid from Steam Generator Treatment (Discharge Code 1060000)

Maximum Flow per Batch: 25,000 gallons Maximum Frequency of Discharge: Three per day Expected Frequency: Two per day

- (1) Prior to the use of diaminoethane the permittee must submit for the review and approval of the Commissioner an engineering report on process modifications.
- (2) A minimum of two (2) condenser circulating pumps shall be in service on Unit 2 during discharge.
- (3) The maximum concentrations specified below shall not be exceeded at any time.

Farameter	Code	Maximum Quantity Per Batch	Eaximum Concentration Per Batch	Minimum Frequency of Sampling	Sample Type
Total Suspended Solids	00530-019		45.0 mg/l	Veekly	Grab
pE Oil and Grease-T Epric Acid Ethanolamine Diaminoethane	00400-012 70030-019 00698-058 C0196-056 C0195-056		20.0 mg/l See (d) Below	Veekly Enthly Veekly (c) Veekly	Grab Grab Grab Grab

- (a) The permittee shall record the total flow (Code 74076-DD7) and the number of hours of discharge (Code Bl381-D79) for each day of sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- (c) Sampling weekly for boric acid required only when boric acid treatment of steam generator occurs.
- (d) Monitoring for disminosthane shall be performed as approved by the Commissioner in accordance with Paragraph R.(1). above.

- (e) Radiation monitoring is performed in accordance with Paragraph 2 above.
- 5. Discharge Serial No. 0018-7 Monitoring Location: I Description: Unit No. 2 Condensate Polisher Auxiliary Heat Exchanger (Service Vater) Discharge (Discharge Code 102000c) Haximum Daily Flow: 5,760,000 gallons per day
 - (1) The temperature of the discharge shall not exceed 85°F.

Ferencer	Code	Maximum Instant. Limits	Minimum Frequency of Sampline	Sample Type
Free Available Chlorine	50064-019	0.25 mg/l	Veckly	Grab
Temperature F	00011-015	See (1) Above	Veekly	Instantaneous

- (a) The permittee shall record the instantaneous flow (Code DDDSB-D7B) at the time of grab sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- I. Discharge Serial No. 0018-8

 Monitoring Location: 1

 Description: Unit No. 2 Condenser Hotwell Discharge
 (Discharge Code 117000s)

 Maximum Flow per Batch: 100,000 gallons

 Maximum Frequency of Discharge: One per day

 Expected Frequency: Five per year
 - (1) The temperature of the discharge shall not exceed 112°F.
 - (2) A minimum of two (2) condenser circulating pumps shall be in service on Unit 2 during discharge.
 - (3) Prior to the use of distince then the permittee must submit for the review and and approval of the Commissioner an engineering report on process modifications.
 - (4) The maximum concentrations specified below shall not be exceeded at any time.

Parameter	Code		Maximum Concentration Per Batch	Minimum Frequency of Sampline	Sample Type
Temperature F	00011-015	SEE NOTE	(1) ABOVE	Daily (c)	Grab
₽B .	00400-012			Daily (c)	Instantaneous
Total Suspended Solids	00530-019		45.0 mg/l	Daily (c)	Grab
Total Iron	01045-019		5.0 mg/l	Daily (c)	Grab
Eydrazine	81313-019		50.0 mg/1	Daily (c)	GTAD
Ethanolazine	C0196-019		3.0 mg/1	Daily (c)	Grab
Diamenosthans	C0195-019		See Note (d)		

- (a) The permittee shall record the total flow (Code 74076-007) and the number of hours of discharge (Code 81381-079) for each day of sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- (c) Sampling required only when the condenser horvell discharge occurs.
- (d) Monitoring for disminoethane shall be performed as approved by the Commissioner in accordance with Paragraph T.(3). above.
- U. Discharge Serial No. 001B-9

 Monitoring Location: 1

 Description: Unit No. 2 Non-contaminated Closed Cooling Vater System

 Drainage Discharge (Discharge Code 102000b)

 Maximum Daily Flow: 30,000 gallons per day
 - (1) The temperature of the discharge shall not exceed 100°F.
 - (2) The maximum limits specified below shall not be exceeded at any time.
 - (3) A minimum of two (2) condenser circulating pumps shall be in service on Unit 2 during discharge except during Unit 2 shutdowns. During Unit 2 shutdowns, the maximum discharge flow shall be 8.5 gallons per minute and a minimum flow equivalent to (2) two service water pumps shall be in service on Unit 2 during discharge.

Parameter	Code	Esximum Instant. Lipits	Minimum Frequency of Sampling	Sample Type
Temperature OF	00011-015	See (1) Above 75.0 mg/1	Daily	Instantaneous
Eydrazine	81313-019		Daily	Grab

- (a) The permittee shall record the total flow (Code 74076-007) and the number of hours of discharge (Code 81381-079) for each day of sample collection and/or the instantaneous flow (Code 00058-078) at the time of grab sample collection.
- (b) The report shall include a detailed explanation of any violations of the limitations specified above.
- (c) Sampling required only when discharging closed cooling water system drainage.
- V. Discharge Serial No. 001-C
 Monitoring Location: 1
 Description: Unit No. 3 Discharge
 (Discharge Code 102000d)
 Maximum Daily Flow: 1,313,200,000 gallons per day
 Maximum Temperature: 98 F
 Average Design Temperature Increase: 18 F
 - (1) The maximum temperature increase at the Unit No. 3 discharge above the intake water temperature shall be 24°F.
 - (2) The differential temperature increase at the Unit No. 3 discharge above the intake water temperature may be increased to 30°F for a period not exceeding 24 hours under conditions of reduced cooling water flow. In the event the temperature differential exceeds 24°F, the Department of Environmental Protection shall be notified in the monthly monitoring report.
 - (3) The normal operating procedures include, usually not more than 12 times a year, the elevation of the intake vater temperature on each condenser by a thermal backwash process required for the control of sea mussels. The true temperature difference between the receiving stream and discharge water shall be allowed to exceed the permit limit for brief periods during this treatment schedule.
 - (4) Free available chlorine shall not be discharged in the condenser cooling water for more than two hours in any one day. Free available chlorine shall not be discharged in the condenser cooling water of more than one unit at any one time.
 - (5) The pH of the discharge shall not be less than 6.0 or greater than 9.0 (Code 00400-012).

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Parapeter	Code	Maximum Instant. Limits	Minimum Frequency of Sampling	Sample Type
Aquatic Toxicity, Acute	C0019-09A	See paragraph 3.V.(6) below	Quarterly	Daily Composite
Aquatic Toxicity, Chronic	C0020-09A	See paragraph 3.V.(6) below	Quarterly	Daily Composite
Flov	74076-007		Hourly	Instantaneous
PH	00400-012		Hourly (b)	Instantaneous
Temperature oF	00011-015		Eourly	Instantaneous
Free Available Chlorine	50064-019	0.25 mg/1	Veekly (c)	Grab
Free Available Chlorine	50064-001	1386. kg/d	Weekly (c)	Grab

- (a) Report the following data:
 - Daily range of pH
 - 2) Daily range of flow
 - 3) Daily maximum temperature (OF)
 - 4) Daily minimum temperature
 - 5) Daily average temperature
 - 6) Eonthly standard deviation of temperature
 - 7) Daily maximum temperature increase
 - 8) Daily minimum temperature increase
 - 9) Daily average temperature increase
 - 10) Monthly standard deviation of temperature increase
 - 11) Monthly maximum heat load (BTU/hr.)
 - 12) Monthly minimum heat load
 - 13) Monthly average heat load
 - 24) Monthly maximum rate of change of heat load
 - 15) Monthly standard deviation of heat load
 - 16) Total flow during chlorination period each sampling day
 - 17) Total daily flow
- (b) The permittee shall monitor pH manually every four hours whenever the automated pH monitoring equipment malfunctions.
- (c) Whenever Unit 3 is operating, weekly monitoring of free available chlorine shall be performed when chlorination of condenser cooling water occurs.
- (d) The report shall include a detailed explanation of any violations of the limitations specified above.
- (6) Effective upon issuance and thereafter a daily composite sample of the effluent shall not exhibit acute or chronic toxicity in the receiving waterbody.
 - (a) Compliance with this permit condition shall be achieved when:

- (i) the Daily Flow of the discharge is greater than or equal to 43,200,000 gallons and there is no significant mortality in a daily composite sample of the effluent at a concentration equal to or greater than an NOAEL = 1001 as determined by the pass/fail methodology in Section 22a-430-3(j)(7)(A) of the Regulations of Connecticut State Agencies; or
- (ii) the Daily Flow of the discharge is less than 43,200,000 gallons and the LC₅₀ value of a daily composite sample of the effluent is equal to or greater than an LC₅₀ > 671. In determining LC₅₀ value, five (3) test concentrations, in duplicate, shall be utilized and the LC₅₀value shall be determined by the computational method (Binomial Distribution, Probit Analysis, Moving Average Angle, Spearman-Karber) which yields the smallest 931 confidence interval and LC₅₀ value which is consistent with the dose-response data.
- (b) Monitoring to determine compliance with this limit shall be performed Quarterly (January, April, July, October) following the toxicity testing protocol for static acute toxicity tests in 'Methods for Measuring the Acute Toxicity of Effluents to Freshvater and Marine Organisms' (EPA 600/4-85/013) with the following specifications:
 - (i) <u>Mysidopsis bahia</u> (5 days old or less) and <u>Cyprinodon yariesatus</u> (30 +/- 5 days old) shall be used as test organisms
 - (ii) Synthetic or natural seawater adjusted to a salinity of 28-32 ppt shall be used as dilution water in the tests.
 - (iii) Test duration shall be 48 hours for <u>Mysidopsis bahia</u> and 96 hours for <u>Cyprinodon yerierstus</u>.
- (c) Any test in which the survival of test organisms is less than ninety (90) percent in each replicate control test chamber or failure to achieve test conditions as specified in Section 22a-430-3(j)(7)(A) of the Regulations of Connecticut State Agencies, such as maintenance of appropriate environmental controls, shall constitute an invalid test and will require immediate retesting. Failure to submit walld test results constitutes a permit violation.

(d) Results of the toxicity tests required as part of this permit condition shall be entered on the Discharge Monitoring Report (DMR) for the month in which it was performed, using the appropriate parameter code. Additionally, complete and accurate test data, including all supporting chemical/physical measurements performed in association with the toxicity tests, as well as dose/response data shall be entered on the Aquatic Toxicity Monitoring Report form (ATMR). The ATMR shall be sent to the following address:

Aquatic Toxicity
Connecticut Department of Environmental Protection
Vater Compliance Unit
122 Vashington Street
Eartford, CT 06106

- (e) If any test result indicates that the maximum daily toxicity limit for the effluent has been exceeded, a second sample of the effluent shall be collected and tested as described above and the results reported to the Commissioner within 30 days of the receipt of the first set of test results.
- (f) If any two consecutive test results or any three test results in a single year indicate that the maximum daily toxicity limit has been exceeded, the permittee shall immediately take all reasonable steps to eliminate toxicity wherever possible and shall submit a report for the review and approval of the Commissioner in accordance with Section 22a-430-3(j)(10)(c) of the Regulations of Connecticut State Agencies describing proposed steps to eliminate the toxic impact of the discharge on the receiving waterbody. Such a report shall include a proposed time schedule to accomplish toxicity reduction.
- (7) The discharge shall contain no net increase in any of the metal parameters listed below, except as allowed in accordance with this permit. Sampling shall be conducted concurrently at both the intake and effluent at the frequency stated.

Parameter	Code	Minimum Frequency of Sampling	Sample Type
Total Copper	01042-028	Quarterly	Daily Composite
Total Lead	01051-028	Quarterly	Daily Composite
Total Nickel	01057-028	Quarterly	Daily Composite
Total Zinc	01092-028	Quarterly	Daily Composite
Ammonia - N	00610-028	Quarterly	Daily Composite
Total Suspended Solids	00530-028	Quarterly	Daily Composite
Surfactants-Anionic	38260-028	Quarterly	Daily Composite
Oil & Greate- T	70030-028	Quarterly	Grab