

PRETREATMENT PERMIT

issued to

Pratt & Whitney
Division of Raytheon Technologies Corporation
400 Main Street M/S 102-21
East Hartford, CT 06118

Location Address

Pratt & Whitney
Division of Raytheon Technologies Corporation
400 Main Street
East Hartford, CT 06118

Issuance Date: [TBD – Upon signature]

Effective Date: [1st of the Month following
Issuance Date]

Expiration Date: [Ten (10) years from Effective
Date]

Permit ID: SP0000191

SECTION 1: GENERAL PROVISIONS

- (A) This permit is issued in accordance with section 22a-430 of Chapter 446k, Connecticut General Statutes ("CGS"), and Regulations of Connecticut State Agencies ("RCSA") adopted thereunder, as amended, and a modified Memorandum of Agreement dated June 3, 1981, by the Administrator of the United States Environmental Protection Agency which authorizes the State of Connecticut to administer a Pretreatment Program pursuant to Title 40 of the Code of Federal Regulations Part 403 ("40 CFR Part 403").
- (B) Pratt & Whitney (Division of Raytheon Technologies Corporation) ("Permittee"), shall comply with all conditions of this permit including the following sections of the RCSA which have been adopted pursuant to section 22a-430 of the CGS and are hereby incorporated into this permit. Your attention is especially drawn to the notification requirements of subsections (i)(2), (i)(3), (j)(1), (j)(6), (j)(8), (j)(9)(C), (j)(11)(C), (D), (E), and (F), (k)(3) and (4) and (l)(2) of section 22a-430-3.

Section 22a-430-3 General Conditions

- (a) Definitions
- (b) General
- (c) Inspection and Entry
- (d) Effect of a Permit
- (e) Duty
- (f) Proper Operation and Maintenance
- (g) Sludge Disposal
- (h) Duty to Mitigate
- (i) Facility Modifications; Notification
- (j) Monitoring, Records and Reporting Requirements
- (k) Bypass
- (l) Conditions Applicable to POTWs
- (m) Effluent Limitation Violations (Upsets)
- (n) Enforcement
- (o) Resource Conservation
- (p) Spill Prevention and Control
- (q) Instrumentation, Alarms, Flow Recorders
- (r) Equalization

Section 22a-430-4 Procedures and Criteria

- (a) Duty to Apply
- (b) Duty to Reapply

- (c) Application Requirements
- (d) Preliminary Review
- (e) Tentative Determination
- (f) Draft Permits, Fact Sheets
- (g) Public Notice, Notice of Hearing
- (h) Public Comments
- (i) Final Determination
- (j) Public Hearings
- (k) Submission of Plans and Specifications. Approval.
- (l) Establishing Effluent Limitations and Conditions
- (m) Case by Case Determinations
- (n) Permit issuance or renewal
- (o) Permit Transfer
- (p) Permit revocation, denial or modification
- (q) Variances
- (r) Secondary Treatment Requirements
- (s) Treatment Requirements for Metals and Cyanide
- (t) Discharges to POTWs - Prohibitions

- (C) Violations of any of the terms, conditions, or limitations contained in this permit may subject the Permittee to enforcement action, including but not limited to, penalties, injunctions and/or forfeitures pursuant to applicable sections of the CGS and RCSA. Specifically, civil penalties of up to twenty-five thousand dollars (\$25,000) may be assessed per violation per day.
- (D) Any false statement in any information submitted pursuant to this permit may be punishable as a criminal offense under section 22a-438 or 22a-131a of the CGS or in accordance with section 22a-6, under section 53a-157b of the CGS.
- (E) The authorization to discharge under this permit may not be transferred without prior written approval of the Commissioner of Energy and Environmental Protection ("the Commissioner"). To request such approval, the Permittee and proposed transferee shall register such proposed transfer with the Commissioner at least thirty (30) days prior to the transferee becoming legally responsible for creating or maintaining any discharge which is the subject of the permit transfer. Failure by the transferee to obtain the Commissioner's approval prior to commencing such discharge(s) may subject the transferee to enforcement action for discharging without a permit pursuant to applicable sections of the CGS and RCSA.
- (F) Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- (G) An annual fee shall be paid for each year this permit is in effect as set forth in section 22a-430-7 of the RCSA.

SECTION 2: DEFINITIONS

- (A) The definitions of the terms used in this permit shall be the same as the definitions contained in section 22a-423 of the CGS and sections 22a-430-3(a) and 22a-430-6 of the RCSA.
- (B) In addition to the above, the following definitions shall apply to this permit:
 - "---" in the limits column on the monitoring table means a limit is not specified but a value must be reported on the Discharge Monitoring Report ("DMR").
 - "Annually" in the context of a sampling frequency, means the sample must be collected in the month of June.
 - "Average Monthly Limit" means the maximum allowable "Average Monthly Concentration" as defined in section 22a-430-3(a) of the RCSA when expressed as a concentration (e.g. mg/l); otherwise, it means "Average Monthly Discharge Limitation" as defined in section 22a-430-3(a) of the RCSA.
 - "Daily Concentration" means the concentration of a substance as measured in a daily composite sample, or the arithmetic average of all grab sample results defining a grab sample average.
 - "Daily Quantity" means the quantity of waste generated during an operating day.
 - "gpd" means gallons per day.

“Instantaneous Limit” means the highest allowable concentration of a substance as measured by a grab sample, or the highest allowable measurement of a parameter as obtained through instantaneous monitoring.

"Maximum Daily Limit" means the maximum allowable "Daily Concentration" (defined above) when expressed as a concentration (e.g. mg/l); otherwise, it means the maximum allowable "Daily Quantity" as defined above unless it is expressed as a flow quantity. If expressed as a flow quantity it means "Maximum Daily Flow" as defined in section 22a-430-3(a) of the RCSA.

“mg/l” means milligrams per liter

"NA" as a Monitoring Table abbreviation means "not applicable".

"NR" as a Monitoring Table abbreviation means "not required".

"Quarterly", in the context of a sampling frequency, means sampling is required in the months of March, June, September, and December.

"Range During Month" or "RDM", as a sample type, means the lowest and the highest values of all of the monitoring data for the reporting month.

"Range During Sampling" or "RDS", as a sample type, means the maximum and minimum of all values recorded as a result of analyzing each grab sample of; 1) a Composite Sample, or 2) a Grab Sample Average. For those permittees with continuous monitoring and recording pH meters, Range During Sampling shall mean the maximum and minimum readings recorded with the continuous monitoring device during the Composite or Grab Sample Average sample collection.

"Semi-Annually" in the context of a sampling frequency, means the sample must be collected in the months of June and December.

“S.U.” means Standard Units.

“Total Volatile Organics”, as a monitoring parameter for this permit, means to use an EPA approved test method to analyze the discharge for the following compounds: benzene, carbon tetrachloride, chloroethane, chloroform, dichlorodifluoromethane, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, methyl tert-butyl ether, methylene chloride, tetrachloroethylene, 1,2 trans-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethylene, and vinyl chloride

SECTION 3: COMMISSIONER'S FINAL DETERMINATION

- (A) The Commissioner has made a final determination and found that the continuance of the existing discharges will not cause pollution of the waters of the state, and the continuance of the existing systems to treat discharges to DSN 021, 028, 029, 032, and 033, will protect the waters of the state from pollution. The Commissioner's final determination is based on Application No.201403151 for permit reissuance received on April 3, 2014 and the administrative record established in the processing of that application.
- (B) From the effective date of this permit, for a term not to exceed ten years and until this permit expires or is modified or revoked, the Commissioner hereby authorizes the Permittee to discharge in accordance with the terms and conditions of Permit No. SP0000191, issued by the Commissioner on the issuance date, Application No. 201403151 received by the Department of Energy and Environmental Protection (“Department”) on April 3, 2014, and all modifications and approvals issued by the Commissioner or the Commissioner’s authorized agent for the discharge and/or activities authorized by, or associated with, Permit No. SP0000191, following the issuance date of this permit.
- (C) The Commissioner reserves the right to make appropriate revisions to the permit in order to establish any appropriate effluent limitations, schedules of compliance, or other provisions that may be authorized under the Federal Clean Water Act or the CGS or regulations adopted thereunder, as amended. The permit as modified or renewed under this paragraph may also contain any other requirements of the Federal Clean Water Act or CGS or regulations adopted thereunder which are then applicable.

SECTION 4: EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- (A) The discharges shall not exceed and shall otherwise conform to specific terms and conditions listed below. The discharges are restricted by, and shall be monitored in accordance with, the tables below.
- (B) All samples shall be comprised of only those wastewaters described in these schedules. Therefore, samples shall be taken prior to combination with wastewaters of any other type and after all approved treatment units, if applicable. All samples taken shall be representative of the discharge during standard operating conditions.
- (C) In cases where limits and sample type are specified but sampling is not required, the limits specified shall apply to all samples which may be collected and analyzed by the Department of Energy and Environmental Protection personnel, the Permittee or other parties.

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Table A

Discharge Serial Number: 004 **Monitoring Location:** 1
Wastewater Description: Cooling tower blowdown from Engineering Building, Tower 1, and ambient air condensate from air handlers.
Monitoring Location Description: Discharge pipe(s) prior to comingling with other wastewaters.
Discharge is to: The Metropolitan District Commission's East Hartford Water Pollution Control Facility ("WPCF")

PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Flow, Day of Sampling	gpd	NA	10,000	Annually	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.5-10.0	Annually	Grab
Temperature ²	°F	NA	NA	NR	NA	----	Annually	Grab

Table Footnotes and Remarks:

Footnotes:

¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'

²The temperature of the discharge, both individually or in combination with other discharges, shall not exceed 150°F at the first manhole after leaving the site and shall not cause the temperature of the influent at the headworks of the WPCF to exceed 104°F.

Remarks:

Monitoring may be performed at times when there is no ambient air condensate from air handlers. Discharge must contain cooling tower blowdown for regulatory compliance monitoring.

Table B**Discharge Serial Number:** 005**Monitoring Location:** 1**Wastewater Description:** Cooling tower blowdown from Engineering Building, Tower 2, and ambient air condensate from air handlers.**Monitoring Location Description:** Discharge pipe(s) prior to comingling with other wastewaters.**Discharge is to:** The Metropolitan District Commission's East Hartford WPCF

PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Flow, Day of Sampling	gpd	NA	10,000	Annually	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.5-10.0	Annually	Grab
Temperature ²	°F	NA	NA	NR	NA	----	Annually	Grab

Table Footnotes and Remarks:**Footnotes:**

¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'

²The temperature of the discharge, both individually or in combination with other discharges, shall not exceed 150°F at the first manhole after leaving the site and shall not cause the temperature of the influent at the headworks of the WPCF to exceed 104°F.

Remarks:

Monitoring may be performed at times when there is no ambient air condensate from air handlers. Discharge must contain cooling tower blowdown for regulatory compliance monitoring.

Table C

Discharge Serial Number: 006					Monitoring Location: 1			
Wastewater Description: Cooling tower blowdown from Office Building F, Tower 1, and ambient air condensate from air handlers.								
Monitoring Location Description: NA								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency	Sample Type or Measurement to be Reported
Flow, Maximum Daily	gpd	NA	4,000	NR	Daily Flow	NA	NR	NA
Table Remarks: No Monitoring Required								

Table D

Discharge Serial Number: 007					Monitoring Location: 1			
Wastewater Description: Cooling tower blowdown from Office Building F, Tower 2, and ambient air condensate from air handlers.								
Monitoring Location Description: NA								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency	Sample Type or Measurement to be Reported
Flow, Maximum Daily	gpd	NA	4,000	NR	Daily Flow	NA	NR	NA
Table Remarks: No Monitoring Required								

Table E

Discharge Serial Number: 008 **Monitoring Location:** 1
Wastewater Description: Cooling tower blowdown, sand filter backwash, and ambient air condensate from air handlers from Office Building G.
Monitoring Location Description: Sand Filter backwash, ambient air condensate, and cooling tower blowdown shall be sampled at the discharge pipe(s).
Discharge is to: The Metropolitan District Commission's East Hartford WPCF

PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Flow, Day of Sampling	gpd	NA	8,000	Annually	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.5-10.0	Annually	Grab ³
Temperature ²	°F	NA	NA	NR	NA	----	Annually	Grab ³

Table Footnotes and Remarks:

Footnotes:

¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'

²The temperature of the discharge, both individually or in combination with other discharges, shall not exceed 150°F at the first manhole after leaving the site and shall not cause the temperature of the influent at the headworks of the WPCF to exceed 104°F.

³Should sampling be performed at more than one discharge pipe, the separate grab samples collected shall be combined to be representative of the wastewater discharged during the sampling month.

Remarks:

Monitoring may be performed at times when there is no filter backwash or ambient air condensate from air handlers. Discharge must contain cooling tower blowdown for regulatory compliance monitoring.

Table F

Discharge Serial Number: 009					Monitoring Location: 1			
Wastewater Description: Cooling tower blowdown, sand filter backwash and ambient air condensate from air handlers from L Building Tower								
Monitoring Location Description: NA								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency	Sample Type or Measurement to be Reported
Flow, Maximum Daily	gpd	NA	4,900	NR	Daily Flow	NA	NR	NA
Table Remarks: No Monitoring Required								

Table G

Discharge Serial Number: 010					Monitoring Location: 1			
Wastewater Description: Cooling tower blowdown, and sand filter backwash from Office Building B, Main Tower								
Monitoring Location Description: Cooling tower blowdown and sand filter backwash shall be sampled at the discharge pipe.								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Flow, Day of Sampling	gpd	NA	7,000	Annually	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.5-10.0	Annually	Grab
Temperature ²	°F	NA	NA	NR	NA	----	Annually	Grab
Table Footnotes and Remarks:								
Footnotes:								
¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'								
² The temperature of the discharge, both individually or in combination with other discharges, shall not exceed 150°F at the first manhole after leaving the site and shall not cause the temperature of the influent at the headworks of the WPCF to exceed 104°F.								
Remarks:								
Monitoring may be performed at times when there is no filter backwash. Discharge must contain cooling tower blowdown for regulatory compliance monitoring.								

Table H								
Discharge Serial Number: 011						Monitoring Location: 1		
Wastewater Description: Cooling tower blowdown from Office Building B, Tower 4								
Monitoring Location Description: NA								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency	Sample Type or Measurement to be Reported
Flow, Maximum Daily	gpd	NA	4,000	NR	Daily Flow	NA	NR	NA
Table Remarks: No Monitoring Required								

Table I								
Discharge Serial Number: 013						Monitoring Location: 1		
Wastewater Description: Cooling tower blowdown from four MPE (aka MERL) cooling towers, and ambient air condensate from air handlers								
Monitoring Location Description: NA								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency	Sample Type or Measurement to be Reported
Flow, Maximum Daily	gpd	NA	4,000	NR	Daily Flow	NA	NR	NA
Table Remarks: No Monitoring Required								

Table J

Discharge Serial Number: 014				Monitoring Location: 1				
Wastewater Description: Cooling tower blowdown from three Chill Building towers								
Monitoring Location Description: Blowdown discharge pipe entering the collection sump located in NW corner of Chill Building basement								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Flow, Day of Sampling	gpd	NA	70,000	Annually	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.5-10.0	Annually	Grab
Temperature ²	°F	NA	NA	NR	NA	----	Annually	Grab
Table Footnotes:								
¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'								
² The temperature of the discharge, both individually or in combination with other discharges, shall not exceed 150°F at the first manhole after leaving the site and shall not cause the temperature of the influent at the headworks of the WPCF to exceed 104°F.								

Table K

Discharge Serial Number: 016 **Monitoring Location:** 1
Wastewater Description: Cooling tower blowdown, and sand filter backwash from the Powerhouse Tower
Monitoring Location Description: Cooling tower blowdown and sand filter backwash shall be sampled at the discharge pipe(s).
Discharge is to: The Metropolitan District Commission's East Hartford WPCF

PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Flow, Day of Sampling	gpd	NA	10,000	Annually	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.5-10.0	Annually	Grab ³
Temperature ²	°F	NA	NA	NR	NA	----	Annually	Grab ³

Table Footnotes and Remarks:
Footnotes:
¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'
²The temperature of the discharge, both individually or in combination with other discharges, shall not exceed 150°F at the first manhole after leaving the site and shall not cause the temperature of the influent at the headworks of the WPCF to exceed 104°F.
³Should sampling be performed at more than one discharge pipe, the separate grab samples collected shall be combined to be representative of the wastewater discharged during the sampling month.
Remarks:
 Monitoring may be performed at times when there is no filter backwash. Discharge must contain cooling tower blowdown for regulatory compliance monitoring.

Table L

Discharge Serial Number: 021					Monitoring Location: 1			
Wastewater Description: Treated groundwater from the basement dewatering of Engineering Tunnel (aka K Tower)								
Monitoring Location Description: Discharge pipe after stripping tower treatment								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Flow, Day of Sampling	gpd	NA	144,000	Semi-Annually	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.0 – 10.0	Semi-Annually	Grab
Total Volatile Organics ²	mg/l	NA	NA	NR	NA	5.0	Semi-Annually	Grab
Table Footnotes and Remarks:								
Footnotes:								
¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'								
² As defined in Section 2: Definitions.								
Remarks:								
Records must be maintained on site indicating when temporary treatment is in use.								

Table M

Discharge Serial Number: 022					Monitoring Location: 1			
Wastewater Description: Combined cooling tower blowdown, ambient air condensate from the air handlers, sand filter backwash and steam condensate from the Customer Training Center HVAC System								
Monitoring Location Description: NA								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency	Sample Type or Measurement to be Reported
Flow, Maximum Daily	gpd	NA	3,000	NR	Daily Flow	NA	NR	NA
Table Remarks:								
No Monitoring Required								

Table N

Discharge Serial Number: 023

Monitoring Location: 1

Wastewater Description: Cooling tower blowdown from two J/K Towers, and sand filter backwash

Monitoring Location Description: Discharge pipe(s) located on south wall of J/K Chiller room

Discharge is to: The Metropolitan District Commission's East Hartford WPCF

PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Flow, Day of Sampling	gpd	NA	150,000	Annually	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.5-10.0	Annually	Grab
Temperature ²	°F	NA	NA	NR	NA	----	Annually	Grab

Table Footnotes and Remarks:

Footnotes:

¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'

²The temperature of the discharge, both individually or in combination with other discharges, shall not exceed 150°F at the first manhole after leaving the site and shall not cause the temperature of the influent at the headworks of the WPCF to exceed 104°F.

Remarks:

Monitoring may be performed at times when there is no filter backwash. Discharge must contain cooling tower blowdown for regulatory compliance monitoring.

Table O

Discharge Serial Number: 025 **Monitoring Location:** 1
Wastewater Description: H Building cooling tower system blowdown, and sand filter backwash.
Monitoring Location Description: Cooling tower blowdown and sand filter backwash at discharge pipe(s).
Discharge is to: The Metropolitan District Commission's East Hartford WPCF

PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Flow, Day of Sampling	gpd	NA	75,000	Annually	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.5-10.0	Annually	Grab
Temperature ²	°F	NA	NA	NR	NA	----	Annually	Grab

Table Footnotes and Remarks:

Footnotes:

¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'

²The temperature of the discharge, both individually or in combination with other discharges, shall not exceed 150°F at the first manhole after leaving the site and shall not cause the temperature of the influent at the headworks of the WPCF to exceed 104°F.

Remarks:

Monitoring may be performed at times when there is no filter backwash. Discharge must contain cooling tower blowdown for regulatory compliance monitoring.

Table P

Discharge Serial Number: 028						Monitoring Location: 1		
Wastewater Description: Treated groundwater from the basement dewatering of the east end of G Building, WS-02								
Monitoring Location Description: Sampling port on discharge side of treatment system								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Flow, Day of Sampling	gpd	NA	172,000	Quarterly	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.0 – 10.0	Semi-Annually	Grab
Total Volatile Organics ²	mg/l	NA	NA	NR	NA	5.0	Semi- Annually	Grab
Table Footnotes:								
¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'								
² As defined in Section 2: Definitions.								

Table Q

Discharge Serial Number: 029						Monitoring Location: 1		
Wastewater Description: Treated groundwater from the basement dewatering of G/F Building Tunnel, WS-04								
Monitoring Location Description: Sampling port on discharge side of treatment system								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Flow, Day of Sampling	gpd	NA	101,000	Quarterly	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.0 – 10.0	Quarterly	Grab
Total Volatile Organics ²	mg/l	NA	NA	NR	NA	5.0	Quarterly	Grab
Table Footnotes:								
¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'								
² As defined in Section 2: Definitions.								

Table R**Discharge Serial Number:** 032**Monitoring Location:** 1**Wastewater Description:** Treated groundwater from the basement dewatering of C Building, WS-14**Monitoring Location Description:** Sampling port on sanitary discharge pipe**Discharge is to:** The Metropolitan District Commission's East Hartford WPCF

PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Chromium, Total	mg/l	NA	NA	NR	NA	1.0	Annually	Grab
Flow, Day of Sampling	gpd	NA	20,000	Annually	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.0 – 10.0	Annually	Grab
Total Volatile Organics ²	mg/l	NA	NA	NR	NA	5.0	Annually	Grab

Table Footnotes:

¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'

²As defined in Section 2: Definitions.

Table S

Discharge Serial Number: 033					Monitoring Location: 1			
Wastewater Description: Treated groundwater from the basement dewatering of K Building, WS-22								
Monitoring Location Description: Sampling port on discharge pipe								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Chromium, Hexavalent	mg/l	NA	NA	NR	NA	0.5	Quarterly	Grab
Chromium, Total	mg/l	NA	NA	NR	NA	1.0	Quarterly	Grab
Flow, Day of Sampling	gpd	NA	15,000	Quarterly	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.0 – 10.0	Quarterly	Grab
Total Volatile Organics ²	mg/l	NA	NA	NR	NA	5.0	Quarterly	Grab
Table Footnotes:								
¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'								
² As defined in Section 2: Definitions.								

Table T								
Discharge Serial Number: 034						Monitoring Location: 1		
Wastewater Description: Cooling tower blowdown, and sand filter backwash from C Building								
Monitoring Location Description: Cooling tower blowdown and sand filter backwash at discharge pipe(s).								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Flow, Day of Sampling	gpd	NA	10,000	Annually	Daily Flow	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.5-10.0	Annually	Grab
Temperature ²	°F	NA	NA	NR	NA	----	Annually	Grab
Table Footnotes and Remarks:								
Footnotes:								
¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'								
² The temperature of the discharge, both individually or in combination with other discharges, shall not exceed 150°F at the first manhole after leaving the site and shall not cause the temperature of the influent at the headworks of the WPCF to exceed 104°F.								
Remarks:								
Monitoring may be performed at times when there is no filter backwash. Discharge must contain cooling tower blowdown for regulatory compliance monitoring.								

Table U								
Discharge Serial Number: 035						Monitoring Location: 1		
Wastewater Description: Blowdown from D Building cooling water system								
Monitoring Location Description: NA								
Discharge is to: The Metropolitan District Commission's East Hartford WPCF								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency	Sample Type or Measurement to be Reported
Flow, Maximum Daily	gpd	NA	1,000	NR	Daily Flow	NA	NR	NA
Table Remarks:								
No Monitoring Required								

Table V

Discharge Serial Number: 036

Monitoring Location: 1

Wastewater Description: Wastewater from incidental ambient air condensate (air conditioning condensate), steam condensate from incidental process/equipment heating, non-contact cooling water from incidental process/equipment cooling, ambient air condensate from machining/metalworking/ miscellaneous operations, groundwater from infiltration, fire protection system water, incidental cooling tower overflows, allowable non-stormwater discharges³ and stormwater.

Monitoring Location Description: Wet well inside the DSN 036 pump station

Discharge is to: The Metropolitan District Commission's East Hartford WPCF

PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported	Instantaneous Limit or Required Range	Sample/Reporting Frequency ¹	Sample Type or Measurement to be Reported
Copper, Total	mg/l	1.0	2.0	NR	NA	3.0	Annually	Grab
Flow, Day of Sampling	gpd	NA	30,000	Annually	Daily Flow	NA	NR	NA
Lead, Total	mg/l	NA	NA	NR	NA	---	Annually	Grab
Nickel, Total	mg/l	1.0	2.0	NR	NA	3.0	Annually	Grab
pH, Day of Sampling	S.U.	NA	NA	NR	NA	5.0 – 10.0	Annually	Grab
Total Suspended Solids	mg/l	NA	NA	NR	NA	---	Annually	Grab
Total Volatile Organics ²	mg/l	NA	NA	NR	NA	5.0	Annually	Grab
Zinc, Total	mg/l	1.0	2.0	NR	NA	3.0	Annually	Grab

Table Footnotes:

¹ The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'

²As defined in Section 2: Definitions.

³Non-Stormwater Discharges" includes Landscape irrigation or lawn watering; Uncontaminated groundwater discharges such as pumped groundwater, foundation drains, water from crawlspace pumps and footing drains; Discharges of uncontaminated air conditioner or refrigeration condensate; Water sprayed for dust control or at a truck load wet-down station; Naturally occurring discharges such as rising groundwaters, uncontaminated groundwater infiltration (as defined at 40 CFR 35.2005(20), springs and flows from riparian habitats and wetlands. This term may also include any additional Non-Stormwater Discharges as defined by NPDES Permit No. CT0001376 .

SECTION 5: SAMPLE COLLECTION, HANDLING AND ANALYTICAL TECHNIQUES AND REPORTING REQUIREMENTS

- (A) Chemical analyses to determine compliance with effluent limits and conditions established in this permit shall be performed using the methods approved by the Environmental Protection Agency pursuant to 40 CFR 136 unless an alternative method has been approved in writing in accordance with 40 CFR 136.4 or as provided in section 22a-430-3(j)(7) of the RCSA. Chemicals which do not have methods of analysis defined in 40 CFR 136 shall be analyzed in accordance with methods specified in this permit.
- (B) All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal as defined in 40 CFR 136 unless otherwise specified.
- (C) The results of chemical analysis required above shall be entered on the DMR and reported to the Bureau of Materials Management and Compliance Assurance using NetDMR. Except for continuous monitoring, any monitoring required more frequently than monthly shall be reported on an attachment to the DMR, and any additional monitoring conducted in accordance with 40 CFR 136 or other methods approved by the Commissioner shall also be included on the DMR, or as an attachment, if necessary. The report shall also include a detailed explanation of any violations of the limitations specified. The DMR shall be received by the Bureau of Materials Management and Compliance Assurance by the last day of the month following the month in which samples are taken.
- (D) If this permit requires monitoring of a discharge on a calendar basis (e.g. monthly, quarterly, etc.) but a discharge has not occurred within the frequency of sampling specified in the permit, the Permittee must submit the DMR as scheduled, indicating "NO DISCHARGE". For those permittees whose required monitoring is discharge dependent (e.g. per batch), the minimum reporting frequency is monthly. Therefore, if there is no discharge during a calendar month for a batch discharge, a DMR must be submitted indicating such by the end of the following month.
- (E) DMR Reporting Requirements

1. The Permittee may either submit monitoring data and other reports to the Department in hard copy form or electronically using NetDMR, a web-based tool that allows Permittees to electronically submit DMRs and other required reports through a secure internet connection.

- a. Submittal of Reports Using NetDMR

Unless otherwise approved by the Commissioner, the Permittee and/or the Signatory Authority shall electronically submit DMRs and reports required under this permit to the Department using NetDMR, in satisfaction of the DMR submission requirement of Section 5(C) of this permit.

DMRs shall be submitted electronically no later than the last day of the month following the completed reporting period. All reports required under the permit, including any monitoring conducted more frequently than monthly or any additional monitoring conducted in accordance with 40 CFR 136, shall be submitted to the Department as an electronic attachment to the DMR in NetDMR. Once a Permittee begins submitting reports using NetDMR, it will no longer be required to submit hard copies of DMRs and associated attachments to the Department. The Permittee shall also electronically file any written report of non-compliance described in Section 6 of this permit as an attachment in NetDMR. NetDMR is accessed from: <http://www.epa.gov/netdmr>.

- b. Submittal of NetDMR Opt-Out Requests

If the Permittee is able to demonstrate a reasonable basis, such as technical or administrative infeasibility, that precludes the use of NetDMR for electronically submitting DMRs and reports, the Commissioner may approve the submission of DMRs and other required reports in hard copy form ("opt-out request"). Opt-out requests must be submitted in writing to the Department for written approval on or before fifteen (15) days prior to the date the Permittee would be required under this permit to begin filing DMRs and other reports using NetDMR. This demonstration shall be valid for twelve (12) months from the date of the Department's approval and shall thereupon expire. At such time, DMRs and reports shall be submitted electronically to the Department using NetDMR, unless the Permittee submits a renewed opt-out request and such request is approved by the Department.

All opt-out requests and requests for the NetDMR subscriber form should be sent to the following address or by email at deep.netdmr@ct.gov:

Attn: NetDMR Coordinator
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

c. Submittal of Hard Copy DMRs

If an opt-out request has been submitted to the Department and approved by the Commissioner, the results of chemical analysis required above shall be entered on the DMR, provided by this office, and reported to the Bureau of Materials Management and Compliance Assurance at the address below. Except for continuous monitoring, any monitoring required more frequently than monthly shall be reported on an attachment to the DMR, and any additional monitoring conducted in accordance with 40 CFR 136 or other methods approved by the Commissioner shall also be included on the DMR, or as an attachment, if necessary. The report shall also include a detailed explanation of any violations of the limitations specified. The DMR shall be received at the address below by the last day of the month following the month in which samples are taken.

Water Permitting and Enforcement Division (Attn: DMR Processing)
Bureau of Materials Management and Compliance Assurance
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

- (F) Copies of all DMRs shall be submitted concurrently to the local Water Pollution Control Authority ("WPCA") involved in the treatment and collection of the permitted discharge.

SECTION 6: RECORDING AND REPORTING OF VIOLATIONS, ADDITIONAL TESTING REQUIREMENTS

- (A) If any sample analysis indicates that an effluent limitation specified in Section 4 of this permit has been exceeded, a second sample of the effluent shall be collected and analyzed for the parameter(s) in question and the results reported to the Bureau of Materials Management and Compliance Assurance, Water Permitting and Enforcement Division within thirty (30) days of the date of the analytical laboratory report identifying the exceedance.
- (B) The Permittee shall immediately notify the Bureau of Materials Management and Compliance Assurance, Water Permitting and Enforcement Division and the local WPCA of all discharges that could cause problems to the Publicly Owned Treatment Works ("POTW"), including but not limited to slug loadings of pollutants which may cause a violation of the POTW's NPDES permit, or which may inhibit or disrupt the POTW, its treatment processes or operations, or its sludge processes, use or disposal.
- (C) In addition to the notification requirements specified in Section 1(B) of this permit, if any sampling and analysis of the discharge performed by the Permittee indicates a violation of limits specified in Section 4 of this permit, the Permittee shall notify the Bureau of Materials Management and Compliance Assurance, Water Permitting and Enforcement Division within twenty-four (24) hours of becoming aware of the violation.

SECTION 7: COMPLIANCE CONDITIONS

In accordance with 40 CFR 403.8(f)(2)(viii), the Commissioner may provide public notification, in a newspaper of general circulation in the area of the respective POTW, of permittees that at any time in the previous twelve (12) months were in significant noncompliance with the provisions of this permit. For the purposes of this provision, a permittee that is not a Significant Industrial User is in significant noncompliance if its violation(s) meet(s) one or more of the following criteria:

- **Discretionary:** Any violation of an effluent limit that the Department determines has caused, alone or in combination with other discharges, a violation of the POTW's NPDES permit, inhibition or disruption of the POTW, its treatment processes or operations, or its sludge processes, use or disposal.
- **Imminent Endangerment:** Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment, or has resulted in the Department's exercise of its emergency authority under 40 CFR 403.8(f)(1)(vi)(B) to halt or prevent such a discharge.
- **BMPs:** Any other violation or group of violations, which may include a violation of Best Management Practices, which the Department determines will adversely affect the operation or implementation of the pretreatment program.

This permit is hereby issued on

DRAFT

Yvonne Bolton

Bureau Chief

Bureau of Materials Management and Compliance Assurance

YB/LG

cc: The Metropolitan District Commission's East Hartford Water Pollution Control Facility