

SECTION III OPERATING CONDITIONS

(A) GENERAL OPERATING CONDITIONS APPLICABLE TO ALL PERMITTED ACTIVITIES

Training

- (1) The Permittee shall ensure that all Wastes or Other Materials at the CWS&TF are handled or managed only by personnel who have completed all of the required training specified in the Personnel Training Plan, incorporated herein as Attachment C. Waste shall not be received at the CWS&TF unless appropriately trained personnel and duly designated personnel are present to ensure that the Waste is properly manifested, inspected, tested, transferred, Stored, or otherwise managed.
- (2) For materials managed in the CWS&TF having a hazard classification as defined in the National Fire Protection Association 704 ("NFPA 704"), Standard System for the Identification of the Fire Hazards of Materials, most recent edition having a health hazard rating of 3, the Permittee shall mark each Waste Container or Tank with a blue label (e.g., use of the NFPA diamond is acceptable). The presence of the blue label shall indicate that appropriate personal protective equipment ("PPE") consisting of, at a minimum, respirator protection, must be worn when: (a) opening Containers or Tanks or (b) when managing Wastes in open Containers or Tanks. The presence of the blue label shall require that employees utilize the buddy system (either directly or through visual contact or verbal communication with another employee) when performing these operations in the CWS&TF.
- (3) The Permittee shall ensure that the following requirements are met when managing organic peroxides:
 - (i) That the chemical name is posted on the Container, Tank, or unit utilized to manage the organic peroxide, and
 - (ii) That the temperature range at which the material can be safely managed is identified and posted on the Container, Tank, or processing unit utilized to manage the organic peroxide.
- (4) The Permittee shall ensure that the following requirements are met when managing oxidizers:
 - (i) Oxidizers shall only be staged in Staging Area 211.
 - (ii) Posting of the chemical name of all oxidizing peroxides on the corresponding Containers and Tanks, as well as the temperature range at which the Waste can be safely managed.
- (5) Special Requirements for Container Storage of Class 1 and 2 Oxidizers:

- (i) Materials stored within 12 feet of CSA 327 and 328, or 330 and 331 when the CSAs manage oxidizers shall be compatible in accordance with the Waste Analysis Plan, incorporated herein as Attachment A.
 - (ii) Hydrogen peroxide shall not be Stored in the same CSA concurrently with chromic acid salts.
 - (iii) Hydrogen peroxide or chromic salts are segregated when stored in CSA 327. If oxidizer Wastes are stored in CSA 328, then CSA 327 and 329 are empty. Hydrogen peroxide and chromic salts Wastes shall not be Stored in CSA 330 or 331.
 - (iv) The Storage of containerized oxidizers shall be limited to only one tier high.
 - (v) Hydrogen peroxide shall only be managed on non-wooden pallets.
- (6) At the time of Waste receipt and when preparing shipment for off-site disposal, bulk shipments of Waste shall be inspected to ensure that the Waste identification information corresponds with and identifies the Waste expected to be received or shipped off-site, and that the manifests and/or other required documentation information is complete. All Wastes received from other United Technologies Corporation ("UTC") off-site locations shall be representatively sampled. The representative sample shall consist of samples from 10% of the Containers for each Waste stream received in a shipment and each tanker truck/tanker section containing Waste. All representative samples shall be tested in accordance with the Waste Analysis Plan, incorporated herein as Attachment A.
- (7) The Waste characterization information available with the computerized Waste Tracker or E-Tracker, or equivalent, and/or through supporting documentation must accurately characterize the Waste stream as specified in the Waste Analysis Plan, Section (1)(D), Characterization Parameters, incorporated herein as Attachment A.

Coating

- (8) The Permittee shall maintain each base, and if applicable, the berm of each WMU such that they are free of cracks or gaps and sufficiently impervious to contain leaks, spills and accumulated precipitation until the collected material is detected and removed. The entire base, and if applicable, the berm of all WMUs shall be coated with Laminated Vinyl Ester coating or an equivalent coating that is chemically resistant to the materials managed in that WMU. The applied sealant shall extend vertically at least to the height of the required secondary containment. The application of the sealant shall be in conformance with the manufacturer's specifications. Waste or Other Materials shall not be placed into, a WMU in which the integrity of the coating or containment area is impaired. Prior to re-applying the sealant, the Permittee shall inspect the WMU(s) for signs of visible residue. If visible residue is found, remove the residue in accordance with Section III(A)(10)(b) and Section III(A)(10)(c) of this Permit. The coating shall be re-applied as soon as possible, but no later than thirty (30) calendar Days after discovering that the

integrity of the coating has been impaired due to wear, cracks, blistering, or other causes. If all other WMUs are unavailable due to the presence of other Waste Containers, the Waste shall remain in that WMU until either a WMU opens and can accept the Waste or the floor has been recoated, whichever happens first. Daily inspections of the impaired WMU shall be conducted until the Waste Containers have been removed or the coating has been re-applied and documented in the Facility Operating Record.

Markings

- (9) The Permittee shall post fixed markings or signs in each WMU clearly designating the location of each group of Wastes or Other Materials being managed. Each sign or marking shall be secure, legible and clearly visible from a distance of twenty-five (25) feet.
- (10)
- (a) Prior to changing the type of Waste handled in a CSA, Staging Area, or Tank System or Tank Storage Area, the Permittee shall:
- (i) Remove all Waste and Other Materials from that WMU;
 - (ii) Inspect the WMU for the presence of visible residue;
 - (iii) If visible residue is found, remove the residue by scrubbing and washing with the appropriate cleaning solutions;
 - (iv) Post a new sign for the WMU as applicable pursuant to Section III(A)(9) of this Permit;
 - (v) Revise as necessary Table II-1, *Container Storage Areas*, and Table II-1, *Staging Areas* included in Section II of this Permit; and
 - (vi) Record on the appropriate Facility inspection log the information noted in Section III(A)(10)(a) and Section III(A)(10)(c)(i)—(iv).
- (b) When a WMU protective impermeable coating is in need of repair or re-application as outlined in Section III (A)(8), the Permittee shall:
- (i) The location of the WMU requiring repair;
 - (ii) The type and degree of impairment needed to the floor and/or floor coating;
 - (iii) The method(s) of repair for the damaged floor and/or floor coating;
 - (iv) The date the need for the repair was noticed and the date(s) all repairs were made.
 - (iv) Record on the appropriate inspection log, the information noted in Section III(A)(10)(b) and Section III(A)(10)(c)(i)—(iii) and (iv).
- (c) Record on the appropriate inspection log, the following information:
- (i) Date and results of the inspection;
 - (ii) Name and title of person conducting the inspection;
 - (iii) New WMU designation, as necessary;

- (iv) Name, date, title, and signature of the Authorized Representative or his designee certifying that the area was free of visible residue prior to re-designating that WMU for a different Waste type.
- (v) Name, date, title, and signature of the Authorized Representative or his designee certifying that the WMU was free of visible residue and the method(s) of repair/re-application required to adequately coat the WMU.

Inspections

- (11) The Permittee shall inspect the CWS&TF and all safety equipment, emergency response equipment, security devices and operating and structural equipment to prevent Releases and to ensure such equipment remains in good working order, the safe operation of the CWS&TF and compliance with this Permit. At a minimum, the Permittee shall perform inspections in accordance with the Inspection Plan, incorporated herein as Attachment B to this Permit. The Permittee shall respond as soon as possible to any problem or deficiency identified by any such inspection.
- (12) The Permittee shall record inspections of the CWS&TF and all safety equipment, emergency response equipment, security devices and operating and structural equipment in an inspection log. This log shall include the date and time of the inspection, the name of the inspector, company affiliation if by a company other than Pratt & Whitney, a notation of the observations made, and the date and nature of any repairs or required actions. The inspection log shall be maintained in the Facility Operating Record.
- (13) Prior to placing any Container of Waste or Other Materials into the WMUs, the Container shall be visually inspected by the CWS&TF Facility Personnel or his/her designee (e.g., materials handler) to ensure that the Waste Container is properly labeled. If a discrepancy is found, this information shall be reported to an immediate supervisor or an appropriate supervisor prior to further processing of the material.

Spills, Releases and Accumulated Liquids

- (14) The Permittee shall operate the CWS&TF in a manner that minimizes the possibility of Releases of Waste or Other Materials. The Permittee shall manage and maintain the CWS&TF so as to prevent run-on into any other area of the Site, and prevent Releases and leakages in CWS&TF from reaching and contaminating on-site soils, groundwater and surface water.
- (15) The Permittee shall remove any Released or leaked Waste or any Liquid that accumulates in a WMU. The Permittee shall remove such Waste or Liquid immediately upon detection, but, in no event later than twenty-four (24) hours from the time such Waste or Liquid should have been discovered, or in as timely a manner as is possible to prevent harm to human health and the environment, if the Permittee can demonstrate to the Commissioner that removal of the Released Waste or accumulated precipitation cannot be accomplished within 24 hours. The Permittee shall ensure that any such Spillage, leakage or Liquid remains within the secondary containment area of the WMU.

- (16) The Permittee shall manage all Released or leaked Waste or any Liquid removed from the CWS&TF containment areas as a Hazardous Waste, unless the Permittee demonstrates that such Waste or Liquid is not a Hazardous Waste pursuant to 40 CFR 262.11. If not required to be managed as a Hazardous Waste, the Permittee shall manage all such Waste or Liquid in accordance with this Permit and all applicable requirements.

Notification/Reports

- (17) (a) The Permittee shall immediately notify the Commissioner using CT DEEP's Emergency Response & Spill Prevention Division ("ERSPD") 24-hour telephone number 860-424-3338 or, if that number is unavailable, at 860-424-3333 or toll free at 1-866-337-7745, of:
- (i) the Release or discharge of any Hazardous Waste from the CWS&TF, or
 - (ii) the fire or explosion from the CWS&TF that could threaten the environment or human health, or
 - (iii) Any unplanned evacuation of the CWS&TF for any purpose.
- (b) The Permittee shall immediately notify the Director of the Waste Engineering and Enforcement Division ("WEED") by email at DEEP.WEEDNotification@ct.gov of:
- (i) Any partial shutdown of the CWS&TF that substantially disrupts management of Waste or Other Material Storage as required by this Permit in such a way that threatens human health or the environment, for more than twenty-four hours;
 - (ii) Any inability, for any period of time, to bring Waste to the CWS&TF in such a way that prevents management of Waste in accordance with this Permit and threatens human health or the environment; or
 - (iii) Any other significant threat to human health or the environment associated with the CWS&TF permitted activities.
- (c) In addition to the provisions of Section III(A)(17)(a) of this Permit, the Permittee shall comply with all other applicable reporting or notification requirements regarding any Release at the CWS&TF, including but limited to, requirements under section 22a-450 of the CGS and 40 CFR Part 302.

Commingling

- (18) Prior to the bulking or other commingling of Hazardous Wastes and Other Materials within the CWS&TF, the Permittee shall assure compliance with all applicable sections of the Waste Analysis Plan, incorporated herein as Attachment A of this Permit.

- (19) For each bulking or other commingling of Hazardous Wastes and Other Materials within the CWS&TF, the Permittee shall ensure that prior to any bulking or other commingling taking place all necessary information accompanies the Waste and contains at a minimum the following information:
- (a) Manifest Tracking Number of Waste to be bulked or otherwise commingled where applicable, or the information which can be utilized to track the Waste or Other Material being bulked/commingled with the original Waste or Other Material received from off-site UTC locations or that information which identifies the on-site generator location.
 - (b) U.S. EPA waste code(s).
 - (c) Facility WMU to and from which the Waste is to be transferred.
 - (d) Amount of Waste or Other Material to be bulked/commingled.
 - (e) Signature, initials, or other means of identification of the Facility Personnel who has authorized the bulked/commingled and verified Waste compatibility.

Land banned Hazardous Wastes (LDR)

- (20) (a) The Permittee shall comply with the land disposal restrictions in 40 CFR Part 268. As part of such compliance, the Permittee shall not mix Hazardous Waste that does not meet the applicable treatment standard in 40 CFR 268, Subpart D, with debris that changes the treatment classification of such Waste (i.e., from Waste to hazardous debris).
- (b) The Storage of Hazardous Wastes restricted from land disposal shall not exceed one year or three hundred sixty -five (365) Days from the date the Hazardous Waste was placed into Storage at the CWS&TF in accordance with 40 CFR 268.50(b) and (c).
- (21) Except as provided in 40 CFR 268.50(d) and (e), the Permittee shall ensure that each Container of Hazardous Wastes restricted from land disposal is subject to the following restrictions:
- (a) The Permittee may Store land-banned Hazardous Wastes solely for the purpose of the accumulation of such quantities of Hazardous Waste as necessary to facilitate proper Storage, treatment, or disposal;
 - (b) Each on-site Container of land-banned Hazardous Waste shall be clearly marked to identify its contents and the date of initial accumulation; and
 - (c) Each Container of land-banned Hazardous Waste received from off-site RTX locations shall be clearly marked to identify its contents and the date of receipt at the CWS&TF shall be recorded in the Facility Operating Record.

Closure

- (22) The Permittee shall close the CWS&TF in accordance with the Closure Plan, incorporated herein as Attachment D of this Permit. When closing or Partially Closing the Facility, the Permittee must demonstrate that any contaminants remaining after Final Closure will not impact any environmental media including groundwater, surface water and sediments, soils, or air in excess of recommended exposure limits or factors considering all potential routes of exposure. At a minimum, the closure performance standards for each Hazardous Waste and Other Material constituent of concern shall meet health risk-based standards for all exposure pathways as determined by the Commissioner. The Permittee shall notify the Department of any Partial Closure and if there is a deviation from the Closure Plan, the Permittee must notify the Commissioner prior such implementation. Within sixty (60) calendar Days of Final Closure or Partial Closure completion, the Permittee shall submit a certification to the Commissioner along with the closure report documenting that the Final Closure or Partial Closure was conducted in accordance with the Draft RCRA Closure Plan Guidance, incorporated herein as Appendix D-1 of this Permit, as amended.

Aisle Space

- (23) The Permittee shall maintain aisle space to allow the unobstructed movement of emergency personnel, Container handling equipment, fire protection equipment, spill control and decontamination equipment to all CSAs, Staging Areas, and other WMUs as applicable in an emergency. Aisle space shall be maintained in accordance with this Permit and all applicable NFPA standards, whichever is more stringent.

Aisle space between adjacent rows of Containers or pallets of Containers shall be at a minimum, thirty (30) inches to allow for label examination, Container inspection and for retrieval and relocation in an emergency.

- (24) The maximum stacking height of palletized Containers in the permitted CSAs shall be limited to two (2) tiers high. Oxidizer storage shall be limited to only one (1) tier high. Non-palletized Wastes or Other Materials shall not be stacked within WMUs, exclusive of trucks containing shipments within the Truck Pads with Loading and Unloading Areas. Hydrogen peroxides shall be managed on non-wooden pallets.
- (25) The Permittee shall comply with all applicable provisions of the NFPA Code 30 "Flammable and Combustible Liquids Code," 1990 edition or as revised. Areas of concern include, but are not limited to, design, construction, and operation of separate indoor storage areas protection requirements for protected storage of Liquids and fire control.

- (26) The Permittee shall transport Containers at the CWS&TF using forklift, hand trucks and/or other equipment capable of transporting Containers. The transfer of Containers shall be performed by Personnel experienced and trained in the use of such equipment.
- (27) The Permittee shall make allowances for the grounding of any Containers of ignitable Wastes or Other Materials Stored or managed in the CWS&TF at least during the addition and removal of Waste to and from Containers.
- (28) The Permittee shall prevent damage to Containers of Waste or Other Materials due to freezing.
- (29) The Permittee shall not transport, load, unload, transfer, treat, manage or handle any Waste or Other Materials within, over or on any area of the CWS&TF that has bare soil or unprotected surfaces. In addition, the Permittee shall maintain all traveled surfaces at the site in good repair so that such surfaces can withstand the mechanical stress of traffic to which they are subjected and prevent damage to Containers and Release of Waste or Other Materials during use of such surfaces.

Traffic Control and Vehicles Idling

- (30) The Permittee shall control all traffic related to the operation of the Facility in such a way as to mitigate the queuing of vehicles and prevent excessive or unsafe traffic impacts in the area where the CWS&TF is located.

Signage

- (31) The Permittee shall post a sign with the legend, ‘Danger-Unauthorized Personnel Keep Out,’ at each entrance to the CWS&TF, and at other locations, in sufficient numbers to be seen from any approach to the CWS&TF. The legend must be written in English and in any other language predominant in the area surrounding the CWS&TF and shall be legible from a distance of at least twenty-five (25) feet. The Permittee may use signs with a legend other than “Danger-Unauthorized Personnel Keep Out” to comply with this provision, provided such posting otherwise meets the requirements of this provision and the legend on the sign clearly indicates that only authorized personnel are allowed to enter onto the CWS&TF property and that entry onto the CWS&TF can be dangerous.

Waste Acceptance Criteria

- (32) Prior to the placement of Hazardous Waste into a Container or a Tank, the Permittee shall conduct the Hazardous Waste characterization, verification and waste compatibility evaluation and/or testing described in the Waste Analysis Plan, incorporated herein as Attachment A of this Permit.

- (33) For each transfer of Hazardous Waste to the CWS&TF, the Permittee shall perform the following:
- (a) Hazardous Waste characterization has been performed in accordance with the Waste Analysis Plan, incorporated herein as Attachment A of this Permit;
 - (b) Utilize CWS&TF paperwork (e.g., inventory log, etc.) to keep track of each movement of Waste at the CWS&TF; and
 - (c) Prior to any Waste being removed from an inbound vehicle when a transfer takes places within the CWS&TF that the WMU paperwork, which grants transfer authorization, accompanies the Waste.
- (34) The Permittee shall manage all Wastes whose identities cannot verified in accordance with the procedures in the Waste Analysis Plan incorporated herein as Attachment A of this Permit, by placing such Waste in a designated Staging Area.

(B) WASTE MANAGEMENT UNIT(S) SPECIFIC OPERATING CONDITIONS

- (1) Container Storage Areas (40 CFR 264.171 to 264.179)
- (a) If a Container holding Waste is not in good condition (e.g., severe rusting, apparent structural defects, bulging etc.) or if it begins to leak, the Permittee shall transfer the Waste from this Container to a Container that is in good condition or manage the Waste in some other way that complies with this Permit and all applicable statutes and regulations.
 - (b) The Permittee shall ensure that no Container in the CWS&TF has any superfluous Waste Liquids, sludges or solids on the outside of such Container.
 - (c) The Permittee shall use a Container made of or lined with materials, which will not react with, and are otherwise compatible with the Hazardous Waste to be Stored, so not to impair the ability of the Container to contain the Waste.
 - (d)
 - (i) The Permittee shall ensure that all Containers holding Wastes Stored or managed at the CWS&TF are not opened, handled, managed or Stored in a manner that may rupture the Container or cause a Release.
 - (ii) The Permittee shall ensure that all Containers holding Waste are always closed during Storage, except when it is necessary to add or remove Waste or in an emergency where it may be necessary to repack the Waste from one Container to another.
 - (iii) The Permittee shall ensure that each Container Storing Hazardous Waste is labeled or marked clearly with the words "Hazardous Waste" and other words that identify the contents of the Container such as "flammable," "acid," "alkaline," "cyanide," "reactive," "halogenated solvent," or the chemical name.

- (e) The Permittee shall inspect, at least weekly, the CWS&TF in accordance with the Inspection Plan incorporated herein as Attachment B of this Permit, and shall perform inspections as required by 40 CFR 264.174. At a minimum, the Permittee shall inspect for the following:
 - (i) Leaking Containers;
 - (ii) Deterioration of Containers; and
 - (iii) Deterioration of containment system caused by corrosion or other factors.
- (f) The Permittee shall visually inspect each Container in the CWS&TF to ensure that each Container is packaged and marked as required by 40 CFR 262.30 (Packaging – DOT Requirements) and 262.32 (Marking – “Hazardous Waste” or other designation for Non-Hazardous Waste, with a generic description of the Waste, and other relevant information), as applicable.
- (g) The Permittee shall ensure that the CWS&TF has the secondary containment system capacity for the volume specified in Section II, Permitted Activities, of this Permit. The Permittee shall maintain and operate the secondary containment system in each WMU to ensure sufficient capacity to contain 10 % of the volume of all Waste or 100 % of the volume of the largest Container, whichever is greater. Any device or structure creating negative containment volume (e.g., Containers, equipment, pallets, etc., within the secondary containment zone) shall be acknowledged and accounted for in the determination of the required secondary containment volume.
- (h) The Permittee shall ensure that the secondary containment system for the CWS&TF is maintained and operated as follows:
 - (i) The base of the CWS&TF shall be free of cracks or gaps and is sufficiently impervious to contain Releases and accumulated precipitation until the collected material is detected and removed;
 - (ii) The base of the CWS&TF containment systems shall be pitched towards a sump to capture Liquids resulting from Releases.
- (i) The Permittee shall ensure that the strength of the secondary containment in the CWS&TF is sufficient to prevent failure owing to pressure gradients, physical contact with the Waste, climatic conditions, and the stress of Daily operation.
- (j) The Permittee shall maintain each WMU base to provide adequate containment capacity. Each WMU base, where applicable, shall be maintained to direct Liquids to the sump in that WMU. The base of each WMU and the sump in that WMU shall not be obstructed in any manner which restricts or prevents the flow of Liquids to the sump, where applicable.

- (k) The Permittee shall ensure that Containers holding ignitable or reactive Waste are located at least 15 meters (50 feet) from the Facility's property line.
- (l) The Permittee shall not place incompatible Hazardous Wastes, or incompatible Hazardous Wastes and Other Materials in the same Container and shall not place Hazardous Waste in an unwashed Container that previously held an incompatible Hazardous Waste or Other Material unless the Permittee is in compliance with the Waste Analysis Plan, incorporated herein as Attachment A of this Permit.
- (m) The Permittee shall ensure that a Container holding a Hazardous Waste that is incompatible with any Waste or Other Materials Stored nearby in other Containers is separated from the Waste or Other Materials or protected from them by means of a dike, berm, wall or other device.
- (n) The Permittee shall ensure that at the time of CWS&TF Final Closure, all Hazardous Waste and Hazardous Waste residues are removed from the containment system. In addition, any remaining Containers, liners, bases and soil containing or contaminated with Hazardous Waste or Hazardous Waste residues are decontaminated or removed in accordance with the Closure Plan, incorporated herein as Attachment D of this Permit.
- (o) The Permittee shall utilize Table III-1, *Cleaning Solutions for Container Storage Areas and Staging Areas*, to decontaminate the CSAs, in accordance with the Closure Plan, incorporated herein as Attachment D of this Permit.
- (p) The Permittee shall manage all Hazardous Waste placed in Containers in accordance with the applicable requirements specified in 40 CFR 264.1086, Subpart CC, Air Emission Standards for Containers.
- (q) The Permittee shall ensure that all the Containers in the CSA which are intended for off-site transportation subject to the U.S. Department of Transportation (DOT) regulations specified in 49 CFR Parts 173 and 178 meet the Container requirements specified herein.
- (r) RCRA Empty Containers, as defined in 40 CFR 261.7, are exempt from complying with Subpart CC Air Emission requirements.
- (s) The Permittee shall ensure that all the Containers holding Hazardous Waste are equipped with a cover and closure devices that form a continuous barrier over the Container openings such that the cover and closure devices are secured in the closed position there are no visible holes, gaps or other open spaces into the interior of the Container.
- (t) The Permittee shall comply with all applicable recordkeeping and reporting requirements described in 40 CFR 264.1089 and 264.1090 for all Containers.

- (2) Roll-Off Containers (Hazardous Waste and Non-Hazardous Waste). The Permittee shall ensure that:
- (a) Waste Stored in Roll-Off Containers contain no free draining Liquids except for trap Liquids incidental to Waste settling.
 - (b) Roll-Off Containers are properly marked and labeled identifying the contents.
 - (c) Roll-Off Containers are in good condition and free of impairment or damage.
 - (d) Roll-Off Containers are in compliance with 40 CFR 264.1086, Subpart CC, Air Emission Standards for Containers and shall remain covered at all times with a suitably secured tarp to prevent any fugitive emissions, except when adding, removing and sampling Waste.
 - (e) Roll-Off Containers covers are of sufficient strength to minimize any tears during handling operations.
 - (f) Roll-Off Containers are inspected in accordance with the Inspection Schedule Plan, incorporated herein as Attachment B of this Permit. The inspections shall be recorded in an Inspection Log, including the date, time of the inspection, name of the inspector, observations made, and the date and nature of any repairs. These records shall be kept in the Facility Operating Record for a minimum of three (3) years from the date of inspection.
 - (g) Roll-Offs Containers are located on a base that has sufficient structural strength to withstand the weight of the Roll-Off Container(s) and its content(s).
 - (h) Roll-Off Containers are stored in Truck Pads with Loading and Unloading Area 1, 2, 3, or 4 of the CWS&TF.
- (3) Staging Areas
- (a) The Staging Areas shall be inspected daily including the containment sumps. These inspections shall be entered in the appropriate inspection sheet(s) for the WMU being inspected.
 - (b) The placement of Containers in the Staging Areas shall at all times allow for at a minimum a thirty (30) inch aisle spacing for all containerized Wastes and Other Materials and shall allow Facility Personnel and/or emergency response personnel access for inspection and emergency response.
 - (c) The Staging Areas shall temporarily stage containerized Wastes or Other Materials in the CWS&TF for a period not to exceed five (5) calendar Days while the Waste or Other Material is in transition to the CSA or packaged for offsite shipment. The Permittee shall be able to verify either in writing or by the use of a computerized database for each Container or for each shipment of

Containers of Waste or Other Material, which will confirm that the Container has not exceeded this time limit.

- (d) The Permittee shall utilize Table III-1, *Cleaning Solutions for Container Storage Areas and Staging Areas*, to decontaminate the Staging Areas, in accordance with the Closure Plan, incorporated herein as Attachment D of this Permit.
- (4) Truck Pads with Loading and Unloading Area(s)
- (a) The Truck Pads with Loading and Unloading Areas shall be inspected daily including the containment sumps. The Truck Pads with Loading and Unloading Area shall be inspected both before and after each tanker/truck is to be loaded/unloaded and at a minimum on a daily basis. These inspections shall be entered in the appropriate inspection sheet(s) for the WMU being inspected.
 - (b) Under no circumstance may Wastes or Other Materials be kept in the Truck Pads with Loading and Unloading Areas in the CWS&TF for greater than seventy-two (72) hours after the required analytical work or evaluations have been completed, except for Roll-Off Containers stored in this WMU. The Permittee shall be able to verify either in writing or by the use of a computerized database for each Container or for each shipment of Containers of Waste or Other Material, which will confirm that the Container has not exceeded this time limit.
- (5) Satellite Accumulation Areas
- (a) The Permittee may utilize Satellite Accumulation Areas 20, 21, 24 and 25/26 of CWS&TF to accumulate Waste incidental to Waste handling such as spent rags, personal protective equipment and any Other Material generated from Waste management that is not prohibited by this Permit.
 - (b) The Permittee shall ensure that any Container utilized to accumulate Waste incidental to Waste handling is covered at all times except when it is necessary to add or remove Waste.
 - (c) The Permittee shall ensure that Containers utilized to accumulate Waste incidental to Waste handling is labeled or marked clearly with the words "Hazardous Waste," or with other words that identify the contents of the Containers.
 - (d) The Permittee shall ensure that Containers utilized to accumulate Waste incidental to Waste handling is maintained and operated in such a manner to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden Release of Hazardous Waste or Hazardous Waste constituents to air, soil, or surface water which could threaten human health or the environment.

(6) Tank Storage Area and/or Tank Systems (40 CFR 264.191 to 264.200).

- (a) As soon as Waste begins to accumulate in a Tank or Tank System, the Permittee shall clearly label or mark on the outside of such Tank or the Tank System, whichever would be more conspicuous, with "Hazardous Waste" and other words which clearly identify the contents of the Tank or Tank System, such as "flammable," "acid," "alkaline," "cyanide," "reactive," "halogenated solvent," or the chemical name. If it is not possible to label the Tank or Tank System so that the label is conspicuous, then the area adjacent to the Tank or Tank System shall be labeled as prescribed in this subsection so that the identification of the contents of the Tank is clearly visible for inspection.
- (b) The Permittee shall maintain sufficient floor space in the Tank Storage Area or Tank System areas to allow the unobstructed movement of Personnel, equipment, fire protection equipment, spill control equipment, and decontamination equipment to the Tank Storage Areas or Tank System areas in an emergency.
- (c) If a Tank System holding Hazardous Wastes or Other Materials is not in good condition or if it begins to leak, the Permittee shall transfer the Hazardous Waste and Other Materials from this Tank System to a Tank System that is in good condition or manage the material in some other way that complies with this Permit and the requirements of RCRA Section 22a-449(c)-100 through 119.
- (d) The Permittee shall use Tank Systems including the Tank secondary containment areas and ancillary equipment made of, lined, and/or coated with materials, which will not react with, and are otherwise compatible with the Hazardous Waste or Other Materials to be stored or managed so that the ability of the Tank System to contain the material is not impaired.
- (e) *Design and installation of new Tank Systems or components.*
 - (i) Prior to using any new Tank System or component, including Tank Systems or components referenced in this Permit, the Permittee shall obtain and submit to the Commissioner a written assessment, reviewed and certified by an independent, qualified registered professional engineer, in accordance with Section 22a-449(c)-110(a)(2) of the RCRA incorporating 40 CFR 270.11(d), attesting that the Tank System has sufficient structural integrity and is acceptable for the storing of Hazardous Waste. The assessment must show that the foundation, structural support, seams, connections, and pressure controls (if applicable) are adequately designed and that the Tank System has sufficient structural strength, compatibility with the Waste(s), and Other Material(s) to be stored, and corrosion protection to ensure that it will not collapse, rupture or fail. This assessment, which will be used by the Commissioner to review and approve or disapprove the acceptability of the Tank System design, must include, at a minimum, the following

information:

- (1) Design standard(s) according to which Tank Systems are constructed;
- (2) Hazardous characteristics of the Waste(s) to be handled;
- (3) Design considerations to ensure that:
 - (A) Tank foundations will maintain the load of a full Tank;
 - (B) Tank Systems will be anchored to prevent flotation or dislodgement where the Tank System is placed in a saturated zone, or is located within a seismic fault zone subject to the standards of 40 CFR 264.18(a) and
 - (C) Tank Systems will withstand the effects of a frost heave.
- (ii) With respect to any new Tank System or component, the Permittee shall ensure that proper handling procedures are adhered to in order to prevent damage to the Tank System during installation. Prior to covering, enclosing, or placing a new Tank System or component in use, an independent, qualified installation inspector or an independent, qualified, registered professional engineer, either of whom is trained and experienced in the proper installation of Tank Systems or components, must inspect the Tank System for the presence of any of the following items:
 - (1) Weld breaks;
 - (2) Punctures;
 - (3) Scrapes of protective coatings;
 - (4) Cracks;
 - (5) Corrosion; and
 - (6) Other structural damage or inadequate construction/installation.

All discrepancies shall be remedied before the Tank System is covered, enclosed, or placed in use.
- (iii) All new Tank Systems shall be tested for tightness prior to being covered, enclosed, or placed in use. If a Tank System is found not to be tight, all repairs necessary to remedy the leak(s) in the Tank System shall be performed and the Tank System tested again for tightness prior to the Tank System being covered, enclosed, or placed into use.
- (iv) The Permittee shall ensure that all ancillary equipment associated with each Tank System is supported and protected against physical damage and excessive stress due to settlement, vibration, expansion, or contraction.

- (v) The Permittee shall obtain and keep on file at the Facility written statements by those persons required to certify the design of the Tank System and supervise the installation of the Tank System in accordance with the requirements of Section III(B)(6)(e) of this Permit, that attests that the Tank System was properly designed and installed and that repairs, pursuant to Section III(B)(6)(e) of this Permit, were performed. These written statements must also include the certification statement as required in 40 CFR 270.11(d), as modified by Section 22a-449(c)-110(a) (2) of the RCSA.
- (f) Secondary containment system for Tank Systems shall be:
 - (i) Operated to prevent any migration of Wastes or accumulated Liquid out of the Tank Systems or WMU to the soil, ground water, or surface water at any time during the use of the Tank or Tank Storage Area;
 - (ii) Capable of detecting and collecting Released and accumulated Liquids until the collected material is removed;
 - (iii) Maintained to provide adequate containment capacity; and
 - (iv) Free of any obstruction which may restrict or prevent the flow of Liquids to the sump, where applicable.
- (g) To meet the requirements of Section III(6)(f) of this Permit, secondary containment systems shall be at a minimum:
 - (i) Constructed of or lined with materials that are compatible with the materials to be placed in the Tank System and shall have sufficient strength and thickness to prevent failure owing to pressure gradients (including static head and external hydrological forces), physical contact with the materials to which it is exposed, climatic conditions, and the stress of Daily operation (including stresses from nearby vehicular traffic);
 - (ii) Placed on a foundation or base capable of providing supported to the secondary containment system, resistance to pressure gradients above and below the system, and capable of preventing failure due to settlement, compression, or uplift;
 - (iii) Provided with a leak-detection system that is designed and operated so that it will detect the failure of either the primary or secondary containment structure or the presence of any Release of Hazardous Waste or accumulated Liquid in the secondary containment system within 24 hours, or at the earliest practical time if the owner or operator can demonstrate to the Commissioner that existing detection technologies or Site conditions will not allow detection of a Release within 24 hours; and

- (iv) Sloped or otherwise designed or operated to drain and remove Liquids resulting from Releases or precipitation. Released Waste and accumulated precipitation shall be removed from the secondary containment system within 24 hours, or in as timely a manner as is possible to prevent harm to human health and the environment, if the Permittee can demonstrate to the Commissioner that removal of the Released Waste or accumulated precipitation cannot be accomplished within 24 hours.
- (h) In addition to the requirements of 40 CFR 264.193(a), 40 CFR 264.193(d) and Section III(B)(6) the Permittee shall ensure that the secondary containment device(s) used at the CWS&TF satisfy the following requirements as applicable to the CWS&TF:
 - (i) Ancillary equipment shall be provided with secondary containment that meets the requirements of Section III(B)(6), except for:
 - (1) Above ground piping (inclusive of flanges, joints, valves, and other connections) that are visually inspected for leaks on a Daily basis;
 - (2) Welded flanges, welded joints, and welded connections that are visually inspected for leaks on a Daily basis;
 - (3) Sealless or magnetic coupling pumps and sealless valves, that are visually inspected for leaks on a Daily basis; and
 - (4) Pressurized aboveground piping systems with automatic shut-off devices (e.g., excess flow check valves, flow metering shutdown devices, loss of pressure actuated shut-off devices) that are visually inspected for leaks on a Daily basis.
 - (i) General Conditions (40 CFR 264.194)
 - (i) The Permittee shall not place any Waste or Other Material in Tank Systems that could cause any Tank, its ancillary equipment, or containment system to rupture, leak, corrode or otherwise fail.
 - (ii) The Permittee shall use appropriate controls and practices to prevent Releases and overflows from Tank System. These include at a minimum:
 - (1) Spill prevention controls (e.g., check valves, dry disconnect couplings); and
 - (2) Over-fill controls (e.g., digital sight gauges and/or high level alarms, automatic waste feed cutoff, or bypass to a standby Tank).
 - (iii) The Permittee shall comply with the requirements of RCRA Section 22a-449(c)-104(a)(2) incorporating 40 CFR 264.196, if a spill or leak or Release occurs in any Tank at the CWS&TF.

Decontamination

- (iv) The Permittee shall decontaminate the Tank Systems whenever:
 - (1) All of the Waste has been removed from a Tank System, and
 - (A) the Waste removed and the Waste to be added to such Tank System thereafter are incompatible, as determined in accordance with 40 CFR 264 Appendix V; or
 - (B) the Waste removed contains a listed Hazardous Waste and the Waste to be added to such Tank System thereafter is a Non-Hazardous Waste or is a characteristic Hazardous Waste.
- (v) The Permittee shall utilize the processes in Table III-2, *Cleaning Solutions for Tank Systems or Tank Storage Areas*, to decontaminate the Tank Systems or Tank Storage Areas, when appropriate based on Section III(B)(6)(i)(iv) of this Permit and in accordance with the Closure Plan, incorporated herein as Attachment D of this Permit.
- (vi) The Permittee shall keep and maintain in the Facility Operating Record a Tank Cleaning Certificate or equivalent documentation regarding decontamination of such Tank Systems.
- (j) Inspections (40 CFR 264.195)
 - (i) If not provided for in the Inspection Schedule Plan, incorporated herein as Attachment B to this Permit, the Permittee shall ensure that inspections of Tank Systems include a weekly evaluation of:
 - (1) The overfill controls equipment (high level alarms, automatic waste feed cut-off, and all other overfill/spill control equipment associated with each tank system to ensure that such controls are in good working order;
 - (2) The above ground portions of each tank system to identify corrosion, leaks, deterioration or structural fatigue in any portion of the tank or system components (all piping, including flanges, joints, valves, and other connections, flow metering devices associated with each tank system) to ensure that it is in good working order;
 - (3) The area immediately surrounding the externally accessible portion of each tank system, including the secondary containment system (e.g., dikes) to identify signs of (e.g. wet spots) or spills; and

- (4) Analysis of any data received from leak detection monitors or alarms.
- (ii) The Permittee shall document in the Facility Operating Record an inspection of, at a minimum, those items listed above in Section III(B)(6)(i) and Section III(B)(6)(j).
- (k) *Response to Releases and disposition of leaking or unfit-for-use Tank Systems (RCSA Section 22a-449(c)-104(a)(2), incorporating 40 CFR 264.196).*

A Tank System or secondary containment system from which there has been a Release, or which is unfit for use, shall be removed from service immediately, and the Permittee shall satisfy the following requirements:

- (i) Cessation of use; prevent flow or addition of Wastes. The Permittee shall immediately stop the flow of Hazardous Waste into the Tank System and inspect the system to determine the cause of the Release.
- (ii) Removal of Waste from Tank Systems or Tank Storage Areas
 - (1) If the Release was from the Tank System, the Permittee shall, within twenty-four (24) hours after detection of the Release or, if the Permittee demonstrates to the Commissioner and the Commissioner agrees that it is not possible, at the earliest practical time, remove as much of the Waste as is necessary to prevent further Release of Hazardous Waste to the environment and to allow inspection and repair of the Tank System to be performed. The Permittee shall make all reasonable efforts to mitigate the effects of the Release.
 - (2) If the Waste Released was to a secondary containment system, all Released Wastes shall be removed, within twenty-four (24) hours or if the Permittee can demonstrate to the Commissioner that removal of the Released Waste of accumulated precipitation cannot be accomplished within twenty-four (24) hours in as timely a manner as is possible to prevent harm to human health and the environment.
- (iii) Containment of visible Releases to the environment. The Permittee shall immediately conduct a visual inspection of the Release and, based upon that inspection:
 - (1) Prevent further migration of the Release to soils or surface waters; and

- (2) Remove, and properly dispose of, any visible contamination of the soil or surface water.
- (iv)
 - (1) Within thirty (30) calendar days of a Release to the environment, at the CWS&TF, the Permittee shall submit a written report containing the following information to the Director of WEED pursuant to Condition I(E)(13)(a) of this Permit:
 - (A) Likely route of migration of the Release;
 - (B) Characteristics of the surrounding soil (soil composition, geology, hydrogeology, etc.);
 - (C) Results of any monitoring or sampling conducted in connection with the Release (if available). If sampling or monitoring data relating to the Release are not available within thirty (30) calendar days, such data shall be submitted to WEED as soon as they become available;
 - (D) Proximity to down gradient drinking water wells, surface water, populated areas, wetlands or other environmentally sensitive areas, and habitat for endangered or threatened species; and
 - (E) Description of all response actions taken or planned.
 - (2) The Permittee shall maintain copies of all reports required under Section III (B)(6)(k) of this Permit and all subsequent reports filed with the Department regarding each such incident in the Facility Operating Record until Final Closure of the CWS&TF.
- (v) Provision of secondary containment, repair, or closure
 - (1) Unless the Permittee satisfies the requirements of Section III(B)(6)(k)(v)(2) through Section III(B)(6)(k)(v)(4) of this Permit, the Tank System shall be closed in accordance with the Closure Plan, incorporated herein as Attachment D of this Permit.
 - (2) If the cause of the Release was a spill that has not damaged the integrity of the Tank System, the Permittee may return the Tank System to service as soon as the Released Waste is removed and repairs, if necessary, are made.
 - (3) If the cause of the Release was a leak from the primary Tank System into the secondary containment system, the system shall be repaired prior to returning the Tank System to service.

- (4) If the source of the Release was a leak to the environment from a component of a Tank System without secondary containment, the Permittee shall provide the component of the Tank System from which the leak occurred with secondary containment that satisfies the requirements of RCSA Section 22a-449(c)-104(a)(2) incorporating 40 CFR 264.193, before it can be returned to service, unless the source of the leak is an above ground portion of a Tank System that can be inspected visually. If the source is an aboveground component that can be inspected visually, the component shall be repaired and may be returned to service without secondary containment as long as the requirements of Section III(B)(6)(f) of this Permit are satisfied. If a component is replaced to comply with the requirements of this subparagraph, that component shall satisfy the requirements for new Tank Systems or components in RCSA Section 22a-449(c)-104(a)(2) incorporating 40 CFR 264.192 and 264.193. Additionally, if a leak has occurred in any portion of a Tank System component that is not readily accessible for visual inspection (e.g., the bottom of on-ground Tank), the entire component shall be provided with secondary containment in accordance with RCSA Section 22a-449(c)-104(a)(2) incorporating 40 CFR 264.193, prior to being returned to use.
- (vi) Certification of major repairs. If the Permittee has repaired a Tank System in accordance with Section III(B)(6)(e) of this Permit, and the repair has been extensive (e.g., installation of an internal liner; repair of a ruptured primary containment or secondary containment vessel), the Tank System shall not be returned to service unless the Permittee has obtained a certification by an independent, qualified, registered professional engineer in accordance with RCSA Section 22a-449(c)-110(a)(2) incorporating 40 CFR 270.11(d), that the repaired system is capable of handling Hazardous Wastes without Releases for the intended life of the system. This certification shall be submitted to the Commissioner within seven (7) calendar Days after returning the Tank System to use.
- (l) The Permittee shall ensure that at the time of a Tank System Partial Closure or Final Closure, all Hazardous Waste and Hazardous Waste residues are removed from the Tank Systems. In addition, any contaminated containment system components (liners etc.), contaminated concrete, and structures and equipment contaminated with Hazardous Waste or Hazardous Waste residue are decontaminated, disposed or removed in accordance with the Closure Plan, incorporated herein as Attachment D of this Permit. In addition, the Permittee shall notify the Commissioner the ultimate disposition of any equipment that is removed from service.

- (m) Special requirements for incompatible Wastes (40 CFR 264.199)
 - (i) Incompatible Wastes, or incompatible Wastes and Other Materials, shall not be placed in the same Tank System or in a Tank System which shares the secondary containment area with other Tank Systems, process systems or units, unless 40 CFR 264.17(b) is complied with.
 - (ii) Hazardous Waste shall not be placed in a Tank System that has not been decontaminated and that previously held an incompatible Waste or Other Material, unless 40 CFR 264.17(b) is complied with.
- (n) The Permittee shall maintain and repair the Tank Storage Areas, Tank Systems and Truck Pads with Loading and Unloading Areas and their foundations and appurtenant structures so as to ensure that such WMUs, their foundations and appurtenant structures are capable of withstanding the maximum loading they will be subjected to without leakage or structural failure.
- (o) Special requirements for the Tank Storage of Class 1 and 2 Oxidizers:
 - (i) The operating Tank level and level alarms in Tank 101 and in Tank 102, as necessary, shall be modified so that no more than 40,000 pounds (4,000 gallons) of oxidizers are stored;
 - (ii) Tank 102 shall only contain acid mixtures that are not oxidizers and compatible with the oxidizers stored in Tank 101; and
 - (iii) When Tank 101 is out-of-service and Tank 102 is being utilized for oxidizer Storage, Tanks 102 and 103 shall comply with Section III(B)(6)(n)(i) and Section III(B)(6)(n)(ii) of this Permit for Tanks 101 and 102, respectively.
- (p) The Permittee **shall not Store** Hazardous Waste in a Tank System, located in the Tank Storage Area of the CWS&TF, with solvent-containing Waste streams with organic concentrations of at least ten (10) percent by weight **unless** the Tank System complies with Subpart BB (40 CFR 264.1050), leak detection and repair program which applies to pumps, valves, compressors, pressure relief devices, sampling connections and connections such as threaded joints and flanges; **and** the requirements specified in RCSA Section 22a-449(c)-104(2) incorporating 40 CFR 264.1084, Subpart CC, Air Emission Standards for Tanks. At a minimum, the Permittee shall comply with the following:
 - (i) The Permittee shall ensure that the Tank is connected to a control device through a closed-vent system. The Permittee shall ensure that the vapor control device, carbon adsorption canister, is monitored by using Method 21 of 40 CFR 60, Appendix A.
 - (ii) The Permittee shall conduct annual inspections on closure devices of Tank Systems with calibrated monitoring instruments

- (iii) The Permittee shall maintain in the Facility Operating Record a record of the air emissions control equipment monitoring activities (Method 21 monitoring protocols and monitoring equipment operation), at a minimum, it should include:
 - (1) The Tank identification number;
 - (2) Date of inspection;
 - (3) Description of defects and corrective actions taken to repair defects of problems with the air emissions control equipment; and
 - (4) A record of each determination of the maximum organic vapor pressure.
- (iv) The Permittee shall correct any abnormality or make repairs no later than five (5) calendar Days after detection and complete repairs no later than forty-five (45) calendar Days after detection.
- (v) The Permittee shall maintain any records needed to comply with the air emission requirements for a minimum of three (3) years in the Facility Operating Record.

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