PUBLIC NOTICE
Blue Grass Army Depot (BGAD)
Tentative Approval of Hazardous Waste Permit to Include Chemical Munitions Storage and a Research Development, and Demonstration Permit to Construct, Test and Operate a Facility to Destroy Chemical Munitions Containing the Nerve Agent GB (Sarin)
Richmond, Kentucky – Madison County

1. The Kentucky Environmental and Public Protection Cabinet's Division of Waste Management (Division), along with the United States Environmental Protection Agency (U. S. EPA) have tentatively decided to grant Blue Grass Army Depot (BGAD) a permit modification to a hazardous waste storage facility to include chemical munitions and related hazardous waste.
2. The Division has also tentatively decided to grant BGAD and Bechtel Parsons Blue Grass a Research, Development and Demonstration (RD&D) permit to construct, test and operate a facility to destroy chemical munitions containing the nerve agent GB.

BGAD is located at 2091 Kingston Highway, Richmond, Madison County, Kentucky, 40475. **The facility contact is Todd Williams (859) 779-6280. The contact for Bechtel Parsons Blue Grass is Thomas Kurkjy (859) 625-1285, takurkjy@bechtel.com.**

What will be done and why?

1. BGAD currently operates under interim status, a hazardous waste storage facility for chemical munitions containing nerve and blister agents, and related hazardous waste. They are required to obtain a Resource Conservation and Recovery Act (RCRA) Part B permit in accordance with 401 KAR 38:010 Section 4. BGAD has a permit for non-chemical weapon (non nerve and blister agent) hazardous waste. The current permit will be modified to include the storage of chemical munitions and related hazardous waste. This permit will allow BGAD to store listed hazardous wastes in 46 additional storage igloos in the Chemical Limited Area. The permit expires September 30, 2014.
2. The RD&D permit will allow BGAD and Bechtel Parsons Blue Grass to construct, test, and operate a facility designed to destroy chemical munitions and related waste using neutralization technology. The permit is only for chemical munitions and related waste with the nerve agent GB. The permit contains a comprehensive Compliance Schedule, which requires submittals of additional information and approvals at set times before processing hazardous waste.

How can I tell the Division what I think about this tentative approval? Public involvement is encouraged and comments are welcome. Anyone wishing to comment on the tentative decision to approve these permits should submit comments to the Cabinet on or before **August 31, 2005**, which is when the public comment period closes. **A public hearing will be held at the Carl D. Perkins Conference Center on the Eastern Kentucky University campus beginning at 6:00 p.m. on August 30th.** Comments should be submitted to one of the following addresses with all issues of concern clearly stated. Comments should be submitted electronically to shannonl.powers@ky.gov; or mailed to Michael V. Welch, Kentucky Environmental and Public Protection Cabinet, Division of Waste Management, 14 Reilly Road, Frankfort, Kentucky 40601, (502) 564-6716, ext. 246.

Where can I review the documents used to make this tentative decision?

Madison Co. Public Library, Richmond Branch, 507 West Main Street, Richmond, KY 40475. Contact: Sue Hays, Director, (859) 623-6704, Email: suehays@madisonlibrary.org.

Madison Co. Public Library, Berea Branch, 319 E. Chestnut, Berea, KY 40403. Contact: Abigail Harris (859) 986-7112. www.madisonlibrary.org/.

Eastern Kentucky University Public Library, 521 Lancaster Ave., Richmond, KY 40475. Contact: Linda Sizemore (859) 622-2068 or (859) 622-2360 – E-mail: linda.sizemore@eku.edu

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Richmond, Kentucky – Madison County

Blue Grass Chemical Stockpile Outreach Office, 301 Highland Park Drive, Richmond, KY 40475. Contact: Sandra Plant, (859) 626-8944, Email: outreach@bechtel.com. Business Hours: M-F 8:30 a.m. to 5 p.m.

Division of Waste Management, 14 Reilly Road, Frankfort, Kentucky 40601-1190, (502) 564-9232 (fax), Email: maria.wood@ky.gov. Contact Maria Wood, by writing, faxing, or e-mailing her at the above address, or by calling her at (502) 564-6716, ext. 636.

What will the Cabinet do with the comments?

All comments received by August 31, 2005, will be considered when making a final decision. Anyone submitting comments will be mailed a "response to public comments" document specifying any changes made or not made, with the reasons why, as a result of the comment(s) submitted.

The Cabinet does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in the provision of services. When requested, the Cabinet provides reasonable accommodations for a public hearing (such as an interpreter) or alternate formats for printed information. Contact Shannon Powers at (502) 564-6716, ext. 665 for assistance.

Fact Sheet
Draft- Blue Grass Army Depot- Draft
Blue Grass Chemical Agent-Destruction Pilot Plant, RD&D Permit
July 13, 2005
Richmond, Madison County, Kentucky
EPA ID KY8-213-820-105, AI 2805

The Kentucky Environmental and Public Protection Cabinet, Division of Waste Management (Division) has tentatively approved a Research Development and Demonstration (RD&D) permit for the Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) at the Blue Grass Army Depot (BGAD), at 2091 Kingston Highway, Richmond, Kentucky. Bechtel Parsons Blue Grass is a Co-Permittee with BGAD.

The BGAD facility contact is Todd Williams (859) 779-6280. The Bechtel Parsons Blue Grass (BPBG) contact is Tom Kurkjy (859) 625-1285, takurkjy@bechtel.com.

This permit will allow for construction, testing, and demonstration of a facility to destroy the BGAD stockpile of chemical munitions. The permit is limited to treating the chemical agent GB (sarin).

Purpose of the Permitting Process

The Division has tentatively decided to issue a RD&D permit to BGAD and BPBG (Permittee) to construct a hazardous waste treatment facility for chemical munitions. The permit includes conditions required under the United States Resource Conservation and Recovery Act (RCRA) and portions of the Hazardous and Solid Waste Amendments (HSWA).

The permitting process gives the public the opportunity to evaluate the Permittee's ability to comply with the hazardous waste management regulations. The Division must prepare a "draft" permit that identifies within one concise document, every applicable requirement that must be met. The public has 45 days to review the draft permit and submit comments before the Cabinet makes any final permit decision. Public health, safety, and environmental issues have been considered in the review of the permit application.

Facility Description

The Blue Grass Army Depot (BGAD) is a 14,596-acre facility operated by the United States Army and is located within Madison County, Kentucky. The depot was established in April 1942 during World War II by the War Department as an expansion of ordnance supply depots. BGAD has 902 munitions storage igloos total, of which 46 contain chemical munitions or Chemical Related Hazardous Waste.

This permit is for a chemical munitions treatment facility, defined as the area (and all included buildings and equipment), within the proposed double fence near the Chemical Limited Area, within BGAD. The purpose of the facility is to treat chemical munitions and materials, currently stockpiled at BGAD, primarily using chemical neutralization technology. A complete description of the facility and processes is included in the "Blue Grass Chemical Agent-Destruction Pilot

Plant, Research, Development and Demonstration Permit Application, November 2004, Revision 2".

Research, Development, & Demonstration

This is the first Hazardous Waste RD&D permit drafted by the Division. RD&D permits are intended to expedite the permitting process for new and innovative hazardous waste treatment technologies. It is not the policy of the Division to widely use the RD&D permitting process, solely to expedite permits.

It is the opinion of the Division that this is the appropriate permitting process for BGCAPP for the following reasons:

- Chemical Agent neutralization is a proven technology. The facility operators intend to **demonstrate** that the various process components at BGCAPP can function together in a commercial scale facility.
- This permit has performance based conditions, such as requiring 99.9999% destruction efficiency of chemical agent. Process parameters are not prescribed. This allows the facility to **develop** appropriate process parameters (such as time and temperature) based on **research** data collected on the initial, and subsequent, "real world" neutralization batches., while still meeting the required destruction efficiency.
- There is an increasing risk to human health and the environment from long term storage of the **aging chemical munitions**. Hazardous waste treatment facilities can not begin construction, until a permit is issued. It is the opinion of the Division that adequate design information is already available, or will be available, in time to approve staged construction activities. This RD&D permit will allow for construction activities to begin.
- There is a very comprehensive **Compliance Schedule**, incorporated into the permit. The Compliance Schedule **requires** that the facility provide to the Division, on a time schedule, various packets of information, which **require approval**, before treating chemical munitions.

Design Changes

This permit is based on "Blue Grass Chemical Agent-Destruction Pilot Plant, Research, Development and Demonstration Permit Application, November 2004, Revision 2". Any proposed change to the facility, as submitted in this application will be reviewed and classified as a major or minor modification according to 401 KAR 38:040. Major modifications request will be Public Noticed according to regulations.

Activity, which is the Subject of the Draft Permit

The BGCAPP will generate secondary hazardous waste streams. They may be transported with a hazardous waste manifest. The following is a list of the secondary waste streams that will be disposed of off-site.

1	D003, D004, D005, D006, D007, D008, D009, D010, D011, D022, D024, D029, D037, N001, N002, and/or N003	Metal Parts Treater Residues
2	D003, D004, D005, D006, D007, D008, D009, D010, D011, D022, D024, D029, D037, N001, N002, and/or N003	Energetic Batch Hydrolyser/Heater discharge Conveyor Residues
3	D003, D004, D005, D006, D007, D008, D009, D010, D011, D022, D024, D029, D037, N001, N002 and/or N003	Aluminum Filtration System Precipitate
4	D003, D004, D005, D006, D007, D008, D009, D010, D011, D022, D024, D029, D037, N001, N002 and/or N003	Water Recovery Salts
5	F001, F002, F003, F004, and/or F005	Metal Parts Washer
6	D003, D004, D005, D006, D007, D008, D009, D010, D011, D022, D024, D029, D037, N001, N002 and/or N003	Closure Waste

D001- Ignitable Waste; D003- Reactive Waste; D004- Arsenic; D005- Barium; D006- Cadmium; D007- Chromium; D008- Lead; D009- Mercury; D010- Selenium; D011- Silver; D022- Chlordane; D024- m-Cresol; D029- 1,1-Dichloroethylene; D037- Pentachlorophenol; D037- Pentachlorophenol; N001- GB (isopropyl methyl phosphonoflouridate); N002- VX (0-ethyl-S-(2-diisopropyl-aminoethyl) -methyl phosphonothiolate); N003- H (bis(2-chloroethyl) sulfide) and related compounds.

This permit allows BGCAPP to build and operate the following regulated hazardous waste units.

Container Handling Building (CHB)	S01	6500	Gallons	1
Unpack Area (UPA)	S01	1000	Gallons	1
Explosive containment Vestibule (ECV)	S01	600	Gallons	1
Explosive containment Room (ECR)	S01	30	Gallons	2
Toxic Maintenance Area	S01	5500	Gallons	1
Dunnage Storage Area	S01	24000	Gallons	1
MDB Residue Handling Area	S01	24000	Gallons	2
Spent Decon Storage	S01	500	Gallons	1
Laboratory Waste Handling Area	S01	2200	Gallons	1
DSH Residue Handling Area	S01	5500	Gallons	2
Agent collection/Toxic Storage Tanks	S02	3600	Gallons	3
Spent Decon Storage	S02	20000	Gallons	2
Hydrolysate Sampling Tanks	S02	160000	Gallons	4
Brine Storage Tank	S02	152000	Gallons	2
Recovered/Process Water Storage Tanks	S02	228000	Gallons	3
Hydrolysate Storage Tanks	S02	3210000	Gallons	9
Laboratory Chemical Waste Tank	S02	1600	Gallons	1
Rocket shear Machine (RSM)	X02	1661	Pounds per hour	2
Projectile/Mortar Disassemble System	X02	315	Pounds per hour	1

(PMD)				
Energetics Batch Hydrolyzer (EBH)	X99	846	Gallons per hour	18
Heated Discharge Conveyor (HDC)	X03	1485	Pounds per hour	2
Energetics Neutralization System	T01	3200	Gallons per hour	6
Aluminum Removal System	X99	20000	Pounds per hour	1
Munition Washout System (MWS)	X02	871	Pounds per hour	3
Metal Parts Treater (MPT)	X03	6998	Pounds per hour	2
Nose Closure Removal System (NCRS)	X02	581	Pounds per hour	2
Agent Neutralization System	T01	4321	Pounds per hour	4
Wood Shredder	X02	340	Pounds per hour	1
Micronizer	X02	340	Pounds per hour	1
Plastic Shredder	X02	7.5	Pounds per hour	2
Carbon Grinder	X02	160	Pounds per hour	1
Hydropulper	X02	4200	Gallons per hour	2
Super Critical Water Oxidizer (SCWO)	X99	8000	Pounds per hour	8
Brine Concentrator	X99	3000	Gallons per hour	2
Water Recover System	X03	21600	Gallons per day	1

S01- Container Storage Area; S02- Tank Storage; X02- Mechanical Processing; X03- Thermal Unit; X99- Other Subpart X (Miscellaneous Unit); T01- Tank Treatment

Basis for Draft Permit Conditions

The permit is divided into six parts: Part I sets forth the basic legal authority for issuing the permit; Part II contains the conditions that are specifically applicable to this particular facility; Part III contains standard conditions applicable to all hazardous waste management facilities; Part VI contains Land Disposal Restrictions, Part VII contains RCRA Organic Air Emission Requirements, and Part VIII contains all referenced attachments. The conditions are listed by subject matter, and in the opinion of the Cabinet, will ensure compliance with the referenced

Kentucky Administrative Regulation (KAR) from Title 401, and more specifically, the hazardous waste management regulations.

Justification for Alternatives to Required Standards

There are three regulatory waiver requests which the Division has approved.

1. 401 KAR 34:180 Section 4(3)- "A container holding hazardous waste shall be labeled "Hazardous Waste" upon the date that hazardous waste is first added to the container"

   The Enhanced Onsite Containers (EONC) will be labeled upon receipt at the Container Handling Building (CHB).

   It is the opinion of the Division that the labeling of the individual munitions should not be done as this would require additional handling of the munitions prior to destruction, and may increase the risk to human health and the environment.

2. 401 KAR 34:180 Section 5- "Inspections. At least weekly, the owner or operator must inspect areas where containers are stored, looking for leaking containers and a deterioration of containers and the containment system caused by corrosion or other factors."

   In lieu of visual inspections of chemical munitions and containers inside of any EONC containing hazardous waste, that is stored in the Container Handling building more than seven (7) days, chemical agent monitoring of the air inside the EONC will per performed.

   It is the opinion of the Division this practice maximizes safety of workers at the facility, while allowing BGCAPP personnel to detect leaking munitions.

3. 401 KAR 34:350- Section 2(2)(a)- "The permit applicant shall affirmatively demonstrate and the cabinet shall determine prior to issuance, conditional issuance or denial of the permit that: (a) The proposed treatment or destruction technology has been proven in an operational facility of scale, configuration and throughput comparable to the proposed facility, for a period of time sufficient to provide assurance of 99.9999 percent destruction or neutralization of each substance proposed to be treated or destroyed. Destruction efficiency is determined for each waste from the following equation:

   $$DE\ \% = \frac{(W_{in} - W_{out} - W_{res}) \times 100\%}{W_{in}}$$

   Where:
   W_{in} = Mass feed rate of waste to the incinerator.
   W_{out} = Mass emission rate of the same waste present in exhaust emissions prior to release to the atmosphere.

W_{res} = Mass removal rate of waste via the incinerator residues.

Because this equation is more applicable to incinerators (see W_{res}), it is the Division's opinion that the following equation is a more appropriate method of calculating the destruction efficiency for the BGCAPP:
% Destruction efficiency = 100% x $(M_{in} - M_{out}) / M_{in}$

Where:
M_{in} = Mass of agent per reactor batch into the Agent Neutralization System (ANS) Reactor
M_{out} = Mass of agent per reactor batch exiting the ANS in the hydrolysate.

Procedures for Reaching a Final Decision on the Draft Permit

The purpose of the permitting process is to afford interested citizens the opportunity to evaluate the ability of the Permittee to comply with applicable hazardous waste management regulations. The Cabinet is required to prepare a draft permit which sets forth, in one concise document, all applicable requirements that the Permittee will be required to carry out during the duration of the permit. The existence and availability of the draft permit is announced through a public notice, which is mailed to appropriate agencies and individuals indicated on the mailing list from the facility. The public notice is also published in a major local newspaper and broadcast over a commercial radio station in the city/county where the facility is located. The public notice announces the opening of a forty-five (45) day public comment period in which any interested person is encouraged to submit comments on the proposed activity.

The public comment period for BGAD's draft permit begins on July 17, 2005, the date the public notice was first published in the Richmond Register and Lexington Herald Leader newspapers. The public comment period will end on August 31, 2005.

The Division will conduct a public hearing (pursuant to 401 KAR 38:050, Section 9) for the draft permit on August 30, 2005. The hearing will be held at 6:00 Pm at the Carl Perkins building on the EKU campus in Richmond, KY. The purpose of the hearing will be to explain the crucial points in the draft permit and to accept oral and written comments from the public. Individuals and citizen groups are encouraged to present oral or written comments and data concerning the proposed permit. Reasonable limits may be set on the time allowed for oral statements. The Division will consider all comments received during the comment period in making a final decision regarding the permit application.

The administrative record, which includes the draft permit and related information, can be reviewed at the following locations:

1. Madison County Public Library, Richmond Branch
   507 West Main Street
   Richmond KY 40475
2. Madison County Public Library, Berea Branch
   319 E. Chestnut
   Berea KY 40403

   Point of contact:
   Sue Hays, Director
   (859) 625-1285
   Email: suehays@madisonlibrary.org.
3. Blue Grass Chemical Stockpile Outreach Office
   301 Highland Park Drive
   Richmond, KY 40475

   Point of contact:
   Ms. Sandra Plant
   (859) 626-8944
   Email: outreach@bechtel.com
   Business Hours: M-F 8:30 a.m. to 5 p.m.
4. Division of Waste Management
   14 Reilly Road
   Frankfort, Kentucky 40601-1190

   Point of contact:
   Maria Wood
   (502) 564-9232 (fax)
   Email: maria.wood@ky.gov
   To make an appointment, submit a written request at least 72 hours prior to the desired review date. Copying charges are 10 cents per page, and $2 for each map and blueprint, plus state sales tax. Upon request, this information can be made available in alternative formats.

Anyone wishing to submit a comment, needing additional information, wanting to be put on the facility mailing list, or requesting a hearing should contact:

Shannon Powers
Kentucky Environmental and Public Protection Cabinet
Division of Waste Management
14 Reilly Road
Frankfort, Kentucky 40601
(502) 564-6716, ext. 246
Email: Shannon.powers@ky.gov

After consideration of all oral and written comments and requirements of state laws and regulations, the Secretary of the Environmental and Public Protection Cabinet will make a final decision regarding permit issuance. If the tentative decision to issue a permit is substantially changed, the Cabinet will issue a public notice indicating a revision of decision. If the tentative decision to issue a permit is substantially unchanged from those announced in the public notice, notification of issuance will be given to the applicant and each person who has submitted comments or who has requested notice of the final permit decision.

When a final permit is issued, the Cabinet will also release a Response to Comments document. All significant comments on the draft permit, raised during the public comment period, will be responded to in the Response to Comments document.

Any person who may be aggrieved by the issuance of the permit for the hazardous waste storage facility may file a petition with the Cabinet, which sets forth the grounds of the objection and the demand for a formal hearing pursuant to KRS 224.10-420(2). This type of hearing is held before a hearing officer. All parties are advised to have legal counsel present.

The Cabinet does not discriminate on the basis of race, color, national origin, sex, religion, age, or disability and provides, upon request, reasonable accommodations including auxiliary aids and services necessary to afford individuals with a disability an equal opportunity to participate in all programs and activities.

Kentucky Environmental and Public Protection Cabinet
Department for Environmental Protection
Division of Waste Management

HAZARDOUS WASTE MANAGEMENT FACILITY PERMIT

Blue Grass Army Depot
Blue Grass Chemical Agent-Destruction Pilot Plant
2091 Kingston Highway
Richmond, Kentucky 40475-5060
EPA ID KY8-213-820-105, AI 2805

The Division of Waste Management hereby grants the above-named facility a permit to engage in activity specified below. This permit has been issued under the provision of KRS Chapter 224 and regulations promulgated pursuant thereto and is subject to all conditions and operating limitations contained herein. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet and/or other federal, state, and local agencies.

Part I	**-Legal Authority**
Part II	**-Specific Conditions**
Part III	**-Standard Conditions**
Part VI	**-Land Disposal Restrictions**
Part VII	**-RCRA Air Emission Standards**
Part VIII	**-Referenced Attachments**

No deviation from the plans and specifications submitted with your application or the conditions specified herein is allowed, unless authorized in writing from the Division of Waste Management. Violation of the terms and conditions specified herein shall render this permit null and void. All rights of inspection by representatives of the Division of Waste Management are reserved. Conformance with all applicable Waste Management Regulations is the responsibility of the permittee. Receipt of the permit fee and financial assurance specified below is hereby acknowledged.

PERMIT TYPE:	RD&D	**PERMIT NUMBER:**	KY8-213-820-105
TYPE OF ACTIVITY:	Treatment and Storage	**COUNTY:**	Madison
PERMIT FEE:	ACWA Grant	**EFFECTIVE DATE:**	_____
CLOSURE AMOUNT:	NA	**EXPIRATION DATE:**	_____
POST-CLOSURE AMOUNT:	NA		
CLOSURE INSTRUMENT:	Federal Facility		
POST-CLOSURE INSTRUMENT:	Federal Facility		
SUDDEN LIABILITY INSURANCE:	NA		

HAZARDOUS WASTE MANAGEMENT UNITS: See Appendix A

NON-SUDDEN LIABILITY INSURANCE: NA

Issued this _____

_____

Director
Division of Waste Management

GARA7 (BGCAPP) Blue Grass Chem. Agent-Destruction Pilot Plt.:

Narrative Requirements:

PART I - Legal Authority:

Condition No.	Condition
T-1	PART I - Legal Authority: Permittee. Pursuant to the Environmental Protection Law, as amended (KRS Chapter 224) and attendant regulations promulgated thereunder by the Kentucky Environmental and Public Protection Cabinet, in the Kentucky Administrative Regulations Title 401, a Research Development and Demonstration permit is issued to Blue Grass Army Depot and Bechtel Parson Blue Grass, 301 Highland Park Drive, Richmond, KY 40475 (hereinafter referred to as the "Permittee"), for the Blue Grass Chemical Agent-Destruction Pilot Plant, 2091 Kingston Highway, Richmond, Kentucky, 40475-5060, for treatment of hazardous waste, at latitude 37 deg. 42' 00" and longitude 84 deg. 12' 30", EPA ID KY8-213-820-105, Agency Interest 2805. Based on the following statutes and regulation: KRS 224.50-130, [KRS 224.46-530(1)(g), 401 KAR 38:060 Section 6(1)]
T-2	PART I - Legal Authority: Effective Date. (1) This permit is effective on (ENTER THE EFFECTIVE DATE OF THE PERMIT. THE EFFECTIVE DATE IS THIRTY DAYS AFTER THE PERMIT ISSUANCE DATE.) (2) This permit allows for construction, will remain in effect for one (1) year after the receipt of hazardous waste, unless revoked and reissued, or terminated. (3) This permit may be renewed not more than three (3) times. Each renewal shall be for a period of not more than one (1) year. (4) Any time hazardous waste is processed in a calendar day at the facility, that day is counted toward one year (365 days). Based on the following regulations: [401 KAR 30:040, 401 KAR 38:060 Section 6]
T-3	PART I - Legal Authority: Sections of Permit. This permit consists of the conditions set forth in: Part I Legal Authority Part II Specific Conditions Part III Standard Conditions Part VI Land Disposal Restrictions Part VII RCRA Organic Air Emissions Standards Part VIII Referenced Attachments and the applicable waste management regulations. Based on the following statute and regulation: [KRS 224.46-530(1)(g), 401 KAR 38:030 Section 3]
T-4	PART I - Legal Authority: Applicable Statutes and Regulations. Applicable regulations are those which are in effect on the date of issuance, modification, revocation or reissuance of this permit. Based on the following statute: [KRS 224.46-530(1)(g)]

Narrative Requirements:

PART I - Legal Authority:

Condition No.	Condition
T-5	PART I - Legal Authority: Permit Application. This permit is based on the assumption that the information in the Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) Research, Development, and Demonstration (RD&D) permit application submitted on March 11, 2004 as modified on November 24, 2004, by subsequent amendments (herein referred to as the application) is accurate and that the facility will be operated as specified in the application and this permit. Any inaccuracies found in this information could lead to the termination or modification of this permit and potential enforcement. The Permittee shall inform the Cabinet of any deviation from, or changes in the information in the application, which would affect the Permittee's ability to comply with the applicable regulations or permit conditions. Based on the following regulations and statute: 401 KAR 45:135 Section 2(5), [401 KAR 40:040 Section 1, KRS 224.46-530(1)(g)]

PART II - Specific Conditions - Facility Description:

Condition No.	Condition
T-6	PART II - Specific Conditions - Facility Description: Permittee. This permit is issued to Blue Grass Army Depot, 2091 Kingston Highway, Richmond, KY, 40475-5060, and Bechtel Parsons Blue Grass, 301 Highland Park Drive, Richmond, KY 40475, (hereinafter referred to as the "Permittee"), for storage and treatment of hazardous waste at Blue Grass Chemical Agent-Destruction Pilot Plant, 2091 Kingston Highway, Richmond, KY, 40475-5060 . Based on the following regulation: [401 KAR 34:005 Section 1(93)]
T-7	PART II - Specific Conditions - Facility Description: Hazardous Waste Management Units. A summary list of the hazardous waste management units the Permittee is permitted to operate at the facility is included in Appendix A, Hazardous Waste Management Units, of this permit. Based on the following statute: [KRS 224.46-530(1)(g)]

Narrative Requirements:

PART II - Specific Conditions - Facility Description:

Condition No.	Condition
T-8	PART II - Specific Conditions - Facility Description: Waste Streams. The hazardous wastes which may be treated or stored at this facility are listed below. Each of these hazardous wastes shall be managed as specified within this permit. Primary Waste 1. 155 mm rockets containing GB, and related components and overpacks. 2. 8" projectiles containing GB, and related overpacks. 3. 1-ton containers containing GB and GB hydrolysate. 4. Laboratory waste related to GB munitions processing. 5. Process waste generated during GB munitions processing. 6. Closure Waste Secondary Waste 1. Metal Parts Treater Residues- D003, D004, D005, D006, D007, D008, D009, D010, D011, D022, D024, D029, D037, and/ or N001. 2. Energetics Batch Hydrolyzer/ Heater Discharge Conveyor Residues - D003, D004, D005, D006, D007, D008, D009, D010, D011, D022, D024, D029, D037, and/or N001. 3. Aluminum Filtration System Precipitate- D003, D004, D005, D006, D007, D008, D009, D010, D011, D022, D024, D029, D037, and/or N001. 4. Water Recovery Salts - D003, D004, D005, D006, D007, D008, D009, D010, D011, D022, D024, D029, D037, and/or N001. 5. Secondary Waste - F001, F002, F003, F004, and/or F005. 6. Closure Waste - D003, D004, D005, D006, D007, D008, D009, D010, D011, D022, D024, D029, D037, and/ or N001 Based on the following regulations and statutes: 401 KAR 34:350, KRS 224.50-130, [KRS 224.46-530(1)(g), 401 KAR 38:060 Section 6]

Narrative Requirements:

PART II - Specific Conditions - General Facility Standards:

Condition No.	Condition
T-9	PART II - Specific Conditions - General Facility Standards: Destruction Efficiency. (1) The Permittee shall demonstrate 99.9999% destruction efficiency on the initial batch of each chemical agent to be treated. (2) If the neutralization formula changes, or if the neutralization process changes, the Permittee shall again demonstrate 99.9999% destruction efficiency on the initial batch following the change. (3) The Permittee will demonstrate 99.9999% destruction efficiency upon written request by the Cabinet. (4) Destruction efficiency will be calculated as: % Destruction Efficiency = 100% x (M1-M2)/M1 where: M1 = Mass of agent per reactor batch into the Agent Neutralization System (ANS) Reactor M2 = Mass of agent per reactor batch exiting the ANS Reactor in the hydrolysate. (5) After the demonstration of the destruction efficiency in the initial batch of each chemical agent, the testing of subsequent batches to be transferred out of the MDB will be specified in the approved Waste Analysis Plan, of the Compliance Schedule in Appendix B of this permit. Based on the following regulation and statute: 401 KAR 34:350 Section 2(2)(a), [KRS 224.46-530(1)(g)]
T-10	PART II - Specific Conditions - General Facility Standards: Thermal Treatment. All wastes treated in the Metal Parts Treater and Heated Discharge Conveyor shall be treated to 1,000 degrees Fahrenheit for a minimum of 15 minutes prior to disposal. Based on the following regulation and statutes: 401 KAR 34:350 Section 2(2)(a), 401 KAR 45:135 Section 2(1)(c), [KRS 224.46-530(1)(g)]
T-11	PART II - Specific Conditions - General Facility Standards: Stack Emission Limits. (1) Monitoring data from the facility shall reflect no confirmed detectable agent emissions from the Munitions Demilitarization Building (MDB) HVAC filters, and the Laboratory HVAC filters. (2) Additional monitoring requirements will be included in the approved Monitoring Plan, which will be submitted to the Hazardous Waste Branch Manager according to the Compliance Schedule, Appendix B. Based on the following regulations and statute: 401 KAR 34:350 Section 2(2)(b), KRS 224.50-130(3), [KRS 224.46-530(1)(g)]
T-12	PART II - Specific Conditions - General Facility Standards: Provide Workers With PPE. All workers within 1000 meters of the Munitions Demilitarization Building (MDB) shall be provided with an adequate level of protection against exposure to nerve agents. Based on the following regulation and statute: 401 KAR 34:350 Section 2(2)(d), [KRS 224.46-530(1)(g)]

Narrative Requirements:

PART II - Specific Conditions - General Facility Standards:

Condition No.	Condition
T-13	PART II - Specific Conditions - General Facility Standards: Community Emergency Preparedness. Before receipt of hazardous waste, the Permittee shall complete provisions for development and funding of sufficient training, coordination and equipment for state and local emergency response personnel, including the health, police, fire, and emergency response fields, to assure the ability of the community to respond to releases from this facility, including development and funding of an evacuation plan by the Permittee, which demonstrates the capability of removing individuals from the largest area at risk from a worst-case release. Based on the following regulation and statute: 401 KAR 34:350 Section 2(2)(c), [KRS 224.46-530(1)(g)]
T-14	PART II - Specific Conditions - General Facility Standards: DEACT. All wastes exiting the Energetics Neutralization System (ENS) during hazardous waste operations, except for laboratory samples, shall meet the regulatory definition of DEACT in the Land Disposal Restrictions, Treatment Standards. Based on the following regulations: [401 KAR 37:040, 401 KAR 38:060 Section 6(1)(c)]
T-15	PART II - Specific Conditions - General Facility Standards: Changing Operators Before transferring operation of BGCAPP facility during its operating life, the Permittee shall notify the new operator in writing of all the permit requirements. Based on the following regulation: [401 KAR 34:020 Section 3(3)]
T-16	PART II - Specific Conditions - General Facility Standards: Waste Analysis Plan. The Permittee shall follow the approved Waste Analysis Plan. Based on the following regulation: [401 KAR 34:020 Section 4(2)]
T-17	PART II - Specific Conditions - General Facility Standards: Security. (1) The Permittee shall comply with the security requirements in the approved Procedures to Prevent Hazards. (2) The Permittee shall also: (a) Maintain security, which monitors and controls entry to the site twenty-four (24) hours per day, seven (7) days per week. (b) Maintain the gates, fences, and other systems around the hazardous waste facility in good operating condition at all times. (c) Maintain signs at the entrance to the facility and other locations that are legible from twenty-five (25) feet from any direction, and the sign will have a legend from the approved Procedures to Prevent Hazards. Based on the following regulation: [401 KAR 34:020 Section 5, 401 KAR 38:060 Section 6(1)(c)]

Narrative Requirements:

PART II - Specific Conditions - General Facility Standards:

Condition No.	Condition
T-18	PART II - Specific Conditions - General Facility Standards: Inspections and Remedies. The Permittee shall comply with all requirements in the approved Procedures to Prevent Hazards including: (1) Inspection schedule (2) Records of inspection. (3) Remedy any deterioration or malfunction of equipment or structures. Based on the following regulation: [401 KAR 34:020 Section 6]
T-19	PART II - Specific Conditions - General Facility Standards: Personnel Training. The Permittee shall conduct personnel training as required by the approved Personnel Training plan. Based on the following regulation: [401 KAR 34:020 Section 7]
T-20	PART II - Specific Conditions - General Facility Standards: Initial Training. All new employees hired in the positions that involve the handling, storing, or shipment of hazardous waste shall successfully complete the training within six (6) months of their employment and must not work in unsupervised positions until they have completed the training. Based on the following regulation: [401 KAR 34:020 Section 7(2)]
T-21	PART II - Specific Conditions - General Facility Standards: Annual Training. All employees involved in hazardous waste management at the facility shall be given appropriate training, and this training shall be repeated/reviewed annually (every 365 days). Based on the following regulation: [401 KAR 34:020 Section 7(3)]
T-22	PART II - Specific Conditions - General Facility Standards: Job Description and Training. The Permittee shall maintain the following documents and records at the facility: (a) A job title for each position at the facility related to hazardous waste management, and the name of the employee(s) filling each job. (b) A written Job Description for each job title, including the requisite skill, education, or other qualifications, and duties of employees assigned to each position. (c) A written description of the type and amount of both introductory and continuing training that will be given to each job title. (d) Records that document that the training or job experience has been given to, and completed by, facility personnel. Based on the following regulation: [401 KAR 34:020 Section 7(4)]
T-23	PART II - Specific Conditions - General Facility Standards: Training Records. Training records on all personnel shall be kept until closure of the facility. Based on the following regulations: [401 KAR 34:020 Section 7(5), 401 KAR 38:060 Section 2(1)(c)]

Narrative Requirements:

PART II - Specific Conditions - General Facility Standards:

Condition No.	Condition
T-24	PART II - Specific Conditions - General Facility Standards: General Requirements for Ignitable, Reactive, or Incompatible Wastes. (1) The Permittee shall take precautions to prevent accidental ignition or reaction of ignitable or reactive waste. This waste shall be separated and protected from sources of ignition or reaction including but not limited to: open flames, smoking, cutting and welding, hot surfaces, frictional heat, sparks (static, electrical, or mechanical), spontaneous ignition (for example, from heat-producing chemical reactions), and radiant heat. (2) While ignitable or reactive waste is being handled, the Permittee shall confine smoking and open flame to specially designated locations. "No Smoking" signs shall be conspicuously placed wherever there is a hazard from ignitable or reactive waste. (3) The Permittee shall take precautions to prevent uncontrolled reactions which: (a) Generate extreme heat or pressure, fire or explosions, or violent reactions. (b) Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health or the environment. (c) Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosion. (d) Damage the structural integrity of the device or facility. (e) Through other like means threaten human health or the environment. (4) The Permittee shall document compliance with this condition. This documentation may be based on references to published scientific or engineering literature, data from trial tests (for example, bench scale or pilot scale tests), waste analyses, or the results of the treatment of similar wastes by similar treatment processes and under similar operating conditions. Based on the following regulation: [401 KAR 34:020 Section 8]

PART II - Specific Conditions - Preparedness and Prevention:

Condition No.	Condition
T-25	PART II - Specific Conditions - Preparedness and Prevention: Safe Operation. The Permittee shall maintain and operate the facility to minimize the possibility of a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment. Based on the following regulation: [401 KAR 34:030 Section 2]
T-26	PART II - Specific Conditions - Preparedness and Prevention: Emergency Equipment. The Permittee shall keep at the facility, all emergency response equipment specified in the approved Contingency Plan. Based on the following regulation: [401 KAR 34:030 Section 3]

Narrative Requirements:

PART II - Specific Conditions - Preparedness and Prevention:

Condition No.	Condition
T-27	PART II - Specific Conditions - Preparedness and Prevention: Test Emergency Equipment The Permittee shall; (1) Test all emergency response equipment at the facility for quality, in accordance with the frequency specified in the Contingency Plan. (2) Maintain such in good working order, to ensure proper operation in time of emergency, consistent with the inspection schedule given in the approved Procedures to Prevent Hazards and approved Contingency Plan. Based on the following regulation: [401 KAR 34:030 Section 4]
T-28	PART II - Specific Conditions - Preparedness and Prevention: Access to Communications or Alarm System. Whenever hazardous waste is being handled, all personnel involved in the operation must have immediate access to an internal alarm, or emergency communication device, either directly, or through visual or voice contact with another employee. Based on the following regulation: [401 KAR 34:030 Section 5(1)]
T-29	PART II - Specific Conditions - Preparedness and Prevention: Required Aisle Space. The Permittee must maintain sufficient aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of the facility in an emergency. Based on the following regulations: [401 KAR 34:030 Section 6, 401 KAR 38:060 Section 6(1)(c)]
T-30	PART II - Specific Conditions - Preparedness and Prevention: Arrangements with Local Authorities. (1) The Permittee must attempt to make the following arrangements, as appropriate for the type of waste handled at this facility, and the potential need for the services of these organizations: (a) Arrangements to familiarize police, fire departments, and emergency response teams with the layout of the facility, properties, and associated hazards, of the hazardous waste handled at the facility, places where facility personnel would normally be working, entrances to any roads inside the facility, and possible evacuation routes. (b) Where more than one (1) police and fire department might respond to an emergency, agreements designating primary emergency authority to a specific police and a specific fire department, and agreements with any others to provide support to the primary emergency authority. (c) Agreements with state emergency response teams, emergency response contractors, other government agencies, and equipment suppliers. (d) Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or releases at the facility. (2) Where state or local authorities decline to enter into such arrangements, the Permittee must document the refusal in the Operating Record. Based on the following regulation: [401 KAR 34:030 Section 7]

Narrative Requirements:

PART II - Specific Conditions - Contingency Plan and Emergency Response:

Condition No.	Condition
T-31	PART II - Specific Conditions - Contingency Plan and Emergency Response: Immediate Response. The Permittee shall immediately carry out the procedures in the approved Contingency Plan, whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment. Based on the following regulation: [401 KAR 34:040 Section 2(2)]
T-32	PART II - Specific Conditions - Contingency Plan and Emergency Response: Minimum Content of Contingency Plan. (1) The approved Contingency Plan must describe the actions facility personnel will take in response to fires, explosions, and any unplanned sudden or nonsudden release of hazardous waste or hazardous waste constituents to air, soil, surface water, or ground water at the facility. (2) The plan must describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and state and local emergency response teams to coordinate emergency services. (3) The plan must list names, facility addresses, and phone numbers (office and cell) of all persons qualified to act as Emergency Coordinator, and this list must be kept up to date. Where more than one (1) person is listed, one (1) person must be named as primary Emergency Coordinator and others must be listed in the order in which they will assume responsibility as alternates. (4) The plan must include a list of all emergency equipment at the facility (such as agent monitoring, fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment). This list must be kept up to date. (5) The plan must include the location and a physical description of each item on the list, and a brief outline of its capabilities. (6) The plan must include an evacuation plan for facility personnel. This plan must describe signal(s) to be used to begin evacuation, evacuation routes, and alternate evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires). Based on the following statute and regulation: KRS 224.50-130, [401 KAR 34:040 Section 3]
T-33	PART II - Specific Conditions - Contingency Plan and Emergency Response: Copies of Contingency Plan. A copy of the approved Contingency Plan, and all revisions to the plan, must be: (1) Maintained at the facility. (2) Submitted to all local police departments, fire departments, hospitals, the Madison County Emergency Management Agency, Kentucky Emergency Management Agency, and other response teams that may be called upon to provide emergency services. (3) All outside agencies, contractors, and emergency providers that have a Memorandum of Agreement (MOA) with BGCAPP, to provide assistance in an emergency. Based on the following statute and regulation: KRS 224.50-130, [401 KAR 34:040 Section 4]

Narrative Requirements:

PART II - Specific Conditions - Contingency Plan and Emergency Response:

Condition No.	Condition
T-34	PART II - Specific Conditions - Contingency Plan and Emergency Response: Amendment of Contingency Plan. The approved Contingency Plan must be reviewed, and immediately amended, if necessary, whenever: (1) The facility permit is revised. (2) The plan fails in an emergency. (3) The facility changes (e.g., in its design, construction, operation, maintenance, or other circumstances) in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency. (4) The list of Emergency Coordinators changes. (5) The list of emergency equipment changes. Based on the following regulation: [401 KAR 34:040 Section 5]
T-35	PART II - Specific Conditions - Contingency Plan and Emergency Response: Emergency Coordinator. (1) At all times, an Emergency Coordinator must be on the facility premises with the responsibility for coordinating all emergency response measures. (2) The Emergency Coordinator must be thoroughly familiar with all aspects of the facility's Contingency Plan, all operations and activities at the facility, the location and characteristics of waste handled, the location of all records within the facility, and the facility layout. (3) The Emergency Coordinator must have the authority to commit the resources needed to carry out the approved Contingency Plan. Based on the following regulations: [401 KAR 34:040 Section 6, 401 KAR 38:060 Section 6(1)(c)]
T-36	PART II - Specific Conditions - Contingency Plan and Emergency Response: Activate Alarms. Whenever there is an imminent or actual emergency situation, the Emergency Coordinator must immediately: (1) Activate internal facility alarms or communication systems, where applicable, to notify all facility personnel. (2) Notify appropriate state or local agencies as specified in the approved Contingency Plan. Based on the following regulations: [401 KAR 34:040 Section 7(1), 401 KAR 38:060 Section 6(1)(c)]
T-37	PART II - Specific Conditions - Contingency Plan and Emergency Response: Evaluating Release. Whenever there is a release, fire, or explosion, the Emergency Coordinator, in coordination with the BGCA Emergency Operation Center, must immediately identify the character, exact source, amount, and aerial extent of any released materials. Based on the following regulations: [401 KAR 34:040 Section 7(2), 401 KAR 38:060 Section 6(1)(c)]

Narrative Requirements:

PART II - Specific Conditions - Contingency Plan and Emergency Response:

Condition No.	Condition
T-38	PART II - Specific Conditions - Contingency Plan and Emergency Response: Release, Fires, or Explosions. (1) The Emergency Coordinator, in coordination with the BGCA Emergency Operations Center, must assess possible hazards to human health or the environment that result from a release, fire, or explosion. (2) This assessment must consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic irritating or asphyxiating gases that are generated, and the effects of any hazardous surface water run-off from water or chemicals used to control fire and explosions). Based on the following regulations: [401 KAR 34:040 Section 7(3), 401 KAR 38:060 Section 6(1)(c)]
T-39	PART II - Specific Conditions - Contingency Plan and Emergency Response: Notify Off-Post Emergency Responders. (1) If the Emergency Coordinator determines that the facility has had a release, fire, or explosion, which could threaten human health or the environment outside the facility, he must immediately report his findings to the BGCA Emergency Operations Center. (2) The BGCA shall: (a) Immediately notify appropriate local authorities. (b) Be available to help appropriate officials decide whether local areas should be evacuated. (c) Use the BGANS phone to notify the Madison County EMA and KyEMA. (d) Activate CSEPP, if necessary. Based on the following regulations: [401 KAR 34:040 Section 7(4), 401 KAR 38:060 Section 6(1)(c)]
T-40	PART II - Specific Conditions - Contingency Plan and Emergency Response: Halt Operations. During an emergency, the Emergency Coordinator must take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous waste at the facility. These measures must include, where applicable, stopping waste feeds, collecting and containing released waste, and removing or isolating containers. Based on the following regulation: [401 KAR 34:040 Section 7(5)]
T-41	PART II - Specific Conditions - Contingency Plan and Emergency Response: Monitor Facility. If the facility stops operations in response to a fire, explosion, or release, the Emergency Coordinator must monitor for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, wherever this is appropriate. Based on the following regulation: [401 KAR 34:040 Section 7(6)]
T-42	PART II - Specific Conditions - Contingency Plan and Emergency Response: Secure Recovered Waste Immediately after an emergency, the Emergency Coordinator must provide for treating, storing, or disposing of recovered waste, contaminated soil, surface water or ground water, or other material that results from a release, fire, or explosion at the facility. Based on the following regulation: [401 KAR 34:040 Section 7(7)]

Narrative Requirements:

PART II - Specific Conditions - Contingency Plan and Emergency Response:

Condition No.	Condition
T-43	PART II - Specific Conditions - Contingency Plan and Emergency Response: Affected Area. The Emergency Coordinator must ensure that, in the affected area of the facility: (1) No waste that may be incompatible with the released material is treated, stored, or disposed of, until cleanup procedures are completed. (2) All emergency equipment listed in the approved Contingency Plan is cleaned and fit for its intended use before operations are resumed. Based on the following regulation: [401 KAR 34:040 Section 7(8)]
T-44	PART II - Specific Conditions - Contingency Plan and Emergency Response: Approval To Resume Operations: If the Contingency Plan is implemented, the Permittee shall; (1) Notify the Hazardous Waste Branch Manager and appropriate state and local authorities that: (a) Cleanup procedures are completed. (b) All emergency equipment listed in the approved Contingency Plan is cleaned and fit for its intended use before operations are resumed. (2) Received approval from the Kentucky Environmental and Public Protection Cabinet, Division of Waste Management, Frankfort Field Office, before resuming operation. Based on the following regulations: [401 KAR 34:040 Section 7(9), 401 KAR 38:060 Section 6(1)(c)]
T-45	PART II - Specific Conditions - Contingency Plan and Emergency Response: Written Report. (1) The Permittee must note in the Operating Record the time, date, and details of any incident that requires implementing the Contingency Plan. (2) Within fifteen (15) days after the incident, he must submit a written report on the incident to the Hazardous Waste Branch Manager. (3) The report must include: (a) Name, address, and telephone number of the Permittee. (b) Name, address, and telephone number of the facility. (c) Date, time, and type of incident (e.g., fire, explosion). (d) Name and quantity of material(s) involved. (e) The extent of injuries, if any. (f) An assessment of actual or potential hazards to human health or the environment, where this is applicable. (g) Estimated quantity and disposition of recovered material that resulted from the incident. (h) A root cause analysis of the incident. (i) Changes in equipment, procedures, or personnel actions to prevent similar incidents. Based on the following regulations: [401 KAR 34:040 Section 7(10), 401 KAR 38:060 Section 6(1)(c)]

Narrative Requirements:

PART II - Specific Conditions - Manifest System:

Condition No.	Condition
T-46	PART II - Specific Conditions - Manifest System: No Off-Depot Hazardous Waste. The Permittee shall not accept any hazardous waste from off depot at this facility. Based on the following statutes: KRS 224.50-130, [KRS 224.46-530(1)(g)]
T-47	PART II - Specific Conditions - Manifest System: General Requirements. (1) If the Permittee transports, or offers for transportation, hazardous waste for off-site treatment, storage, or disposal, he shall prepare a manifest, incorporated by reference in Section 2 of 401 KAR 32:100 (Appendix on Hazardous Waste Manifest and Instructions), and if necessary, the continuation sheet that is incorporated by reference in Section 4 of 401 KAR 32:100, according to the instructions in 401 KAR 32:100. (2) The Permittee shall designate on the manifest, the facility which is permitted to handle the waste described in the manifest. (3) The Permittee may also designate in the manifest, one (1) alternate facility which is permitted to handle his waste in the event an emergency prevents delivery of the waste to the primary designated facility. (4) If the transporter is unable to deliver the hazardous waste to the designated facility or the alternate facility, the Permittee shall either designate another facility, or instruct the transporter to return the waste. Based on the folowing regulation: [401 KAR 32:020 Section 1]
T-48	PART II - Specific Conditions - Manifest System: Acquisition of Manifests. (1) If the state to which the shipment is manifested (consignment state) supplies the manifest and requires its use, then the Permittee shall use that manifest and include all information required in 401 KAR 32:100 (Appendix on Hazardous Waste Manifest and Instructions). (2) If the consignment state does not supply the manifest, then the Permittee shall use the Commonwealth of Kentucky's manifest, and include all information required in 401 KAR 32:100. Based on the following regulation: [401 KAR 32:020 Section 2]
T-49	PART II - Specific Conditions - Manifest System: Number of Copies. The manifest consists of at least the number of copies that will provide the Permittee, each transporter, and the owner or operator of the designated facility with one (1) copy each for their records and another copy to be returned by the operator of the designated facility to the Permittee. Based on the following regulation: [401 KAR 32:020 Section 3]

Narrative Requirements:

PART II - Specific Conditions - Manifest System:

Condition No.	Condition
T-50	PART II - Specific Conditions - Manifest System: Use of the Manifest. (1) The Permittee (generator) shall: (a) Sign the manifest certification by hand. (b) Obtain the handwritten signature of the initial transporter, and date of acceptance on the manifest. (c) Retain one (1) copy, for a minimum of three years. (2) The Permittee shall give the transporter the remaining copies of the manifest. (3) For rail shipments of hazardous waste within the United States which originate at the facility, the Permittee shall send at least three (3) copies of the manifest dated and signed in accordance with this section to: (a) The next nonrail transporter, if any; or (b) The designated facility if transported solely by rail; or (c) The last rail transporter to handle the waste in the United States if exported by rail. (4) For shipments of hazardous waste to a designated facility in an authorized state which has not yet obtained authorization to regulate that particular waste as hazardous, the Permittee shall assure that the designated facility agrees to sign and return the manifest, and that any out-of-state transporter signs and forwards the manifest to the designated facility with the shipment. Based on the following regulation: [401 KAR 32:020 Section 4]

Narrative Requirements:

PART II - Specific Conditions - Recordkeeping and Reporting:

Condition No.	Condition
T-51	PART II - Specific Conditions - Recordkeeping and Reporting: Operating Record. (1) The Permittee shall keep a written Operating Record for BGCAPP. (2) The following information shall be recorded, as it becomes available, and maintained in the Operating Record until closure of the facility: (a) A description and the quantity and date of each hazardous waste received, and the method and date of its treatment, or storage at the facility as described in 401 KAR 34:290 (Appendix on Recordkeeping Instructions). (b) The location of each hazardous waste within the facility and the quantity at each location. (c) Records and results of waste analyses and waste determinations. (d) Summary reports and details of all incidents that require implementing the approved Contingency Plan. (e) Records and results of facility and equipment inspections. (f) Monitoring, testing, and analytical data. (g) For an off-site land disposal facility, a copy of the notice, and the certification and demonstration, if applicable, required of a generator under Section 7 or 8 of 401 KAR 37:010 (Land Disposal Restrictions). (h) Other information specified in this permit. Based on the following regulations: [401 KAR 34:050 Section 4, 401 KAR 38:060 Section 6(1)(c)]
T-52	PART II - Specific Conditions - Recordkeeping and Reporting: Availability, Retention, and Disposition of Records. (1) All records, including plans, shall be furnished upon request, and made available at all reasonable times for inspection by any officer, employee, or representative of the Cabinet who is duly designated by the Secretary of the Cabinet. (2) The retention period for all records required under this chapter is extended automatically during the course of any unresolved enforcement action regarding the facility or as requested by the Cabinet. Based on the following regulation: [401 KAR 34:050 Section 5]
T-53	PART II - Specific Conditions - Recordkeeping and Reporting: Annual Report. (1) The Permittee shall prepare and submit a single copy of the Hazardous Waste Annual Report, DEP Form 7072-91, for BGCAPP, to the Hazardous Waste Branch Manager, by March 1 of each year. The Hazardous Waste Annual Report shall cover facility activities during the previous calendar year. (2) The Permittee shall provide a duplicate copy of the Hazardous Waste Annual Report to the Madison County Judge Executive so that he/she may make the report available to the county law enforcement and emergency services for emergency planning purposes. Based on the following regulations: 401 KAR 34:350, Section 2, [401 KAR 34:050 Section 6]
T-54	PART II - Specific Conditions - Recordkeeping and Reporting: Incorporation By Reference. The following document is hereby incorporated by reference: "Hazardous Waste Annual Report". DEP Form 7072-91 (1994). Based on the following regulation and statute: [401 KAR 34:050 Section 6, KRS 224.46-530(1)(g)]

Narrative Requirements:

PART II - Specific Conditions - Recordkeeping and Reporting:

Condition No.	Condition
T-55	PART II - Specific Conditions - Recordkeeping and Reporting: Additional Reports. In addition to submitting the annual report the Permittee shall also report to the Cabinet: (1) Releases, fires, and explosions. (2) Facility closure. (3) Any other report required by a condition of this permit. Based on the following regulation: [401 KAR 34:050 Section 8]

PART II - Specific Conditions - Closure:

Condition No.	Condition
T-56	PART II - Specific Conditions - Closure: Closure. (1) The Permittee shall close the facility. (2) The general Closure Process is in Attachment 9 of the RD&D Permit Application, Revision 2. (3) A detailed Closure Plan will be submitted to the Hazardous Waste Branch Manager according to the Compliance Schedule, Appendix B. (4) The actual closure will be in accordance with the approved Closure Plan. Based on the following statute and regulations: [KRS 224.46-530(1)(g), 401 KAR 34:070, 401 KAR 38:060 Section 6(1)(c)]
T-57	PART II - Specific Conditions - Closure: Closure Performance Standards. The Permittee shall close the facility in a manner that: (1) Minimizes the need for further maintenance. (2) Controls, minimizes, or eliminates, to the extent necessary to protect human health or the environment, postclosure escape of hazardous waste, hazardous constituents, leachate, contaminated run-off, or hazardous waste decomposition products to the ground, ground water, surface waters, or to the atmosphere. Based on the following regulation: [401 KAR 34:070 Section 2]

Narrative Requirements:

PART II - Specific Conditions - Closure:

Condition No.	Condition
T-58	PART II - Specific Conditions - Closure: Content of Plan. The approved Closure Plan shall identify steps necessary to perform partial and final closure of the facility at any point during its active life. The Closure Plan shall include: (1) A description of how each hazardous waste management unit at the facility will be closed. (2) A description of how final closure of the facility will be conducted. (3) An estimate of the maximum inventory of hazardous wastes that was ever on site over the active life of the facility. (4) A detailed description of the methods to be used during partial closures and final closure, including, but not limited to; (a) Methods for removing, transporting, treating, storing, or disposing of all hazardous wastes (b) Identification of the type(s) of the off-site hazardous waste management units to be used, if applicable; (5) A detailed description of the steps needed to remove or decontaminate all hazardous waste residues and contaminated containment system components, equipment, structures, and soils during partial and final closure, including, but not limited to; (a) Procedures for cleaning equipment and removing contaminated soils if necessary. (b) Methods for sampling and testing surrounding soils (c) Criteria for determining the extent of decontamination required to satisfy the closure performance standard. (6) A detailed description of other activities necessary during the closure period to ensure that all partial closures and final closure satisfy the closure performance standards. Based on the following regulations: [401 KAR 34:070 Section 3(2), 401 KAR 38:060 Section 6(1)(c)]

Narrative Requirements:

PART II - Specific Conditions - Closure:

Condition No.	Condition
T-59	PART II - Specific Conditions - Closure: Amendment of Plan. (1) The Permittee shall submit a written request for a permit modification to the Hazardous Waste Branch Manager to authorize a change in the approved Closure Plan whenever: (a) Changes in operating plans or facility design affect the Closure Plan. (b) There is a change in the expected year of closure. (c) In conducting partial or final closure activities, unexpected events require a modification of the approved Closure Plan. (2) The written request shall include a copy of the amended Closure Plan for approval by the Cabinet. (3) The written request for a permit modification including a copy of the amended Closure Plan for approval, shall be submitted at least sixty (60) days prior to the proposed change in facility design or operation. (4) If an unexpected event occurs during the partial or final closure period, the Permittee shall request a permit modification no later than thirty (30) days after the unexpected event. (5) The Cabinet may request modifications to the plan. (a) The Permittee shall submit the modified plan within sixty (60) days of the Cabinet's request or within thirty (30) days if the change in facility conditions occurs during partial or final closure. Based on the following regulations: [401 KAR 34:070 Section 3(3)]
T-60	PART II - Specific Conditions - Closure: Preclosure Notification. The Permittee shall notify the Hazardous Waste Branch Manager, in writing, at least forty five (45) days prior to the date he expects to begin closure. Based on the following regulation: [401 KAR 34:070 Section 3(4)(a)]
T-61	PART II - Specific Conditions - Closure: Disposal or Decontamination of Equipment, Structures and Soils. During the partial and final closure periods, all equipment, structures and contaminated soils shall be properly disposed of. Based on the following regulations: [401 KAR 34:070 Section 5, 401 KAR 38:060 Section 6(1)(c)]
T-62	PART II - Specific Conditions - Closure: Closure Certification. (1) Within sixty (60) days of completion of closure of a hazardous waste management unit, the Permittee shall submit to the Hazardous Waste Branch Manager, by registered mail, a certification that closure for the hazardous waste management unit was performed in accordance with the approved Closure Plan. (2) The certification shall be signed by the Permittee and by an independent professional engineer licensed in the Commonwealth of Kentucky. Documentation supporting the independent registered professional engineer's certification shall be furnished to the Hazardous Waste Branch Manager upon request. (3) A licenced professional engineer, employed by the government, does not have to be licensed in the Commonwealth of Kentucky (KRS 322.030 (2)). Documentation supporting the professional engineer's certification shall be furnished to the Hazardous Waste Branch Manager upon request. Based on the following regulation: [401 KAR 34:070 Section 6, 401 KAR 38:060 Section 6(1)(c)]

Narrative Requirements:

PART II - Specific Conditions - Management of Hazardous Waste in Containers:

Condition No.	Condition
T-63	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Process Information The Permittee shall construct, operate, maintain, and inspect the container storage areas specified in this permit and as specified in the approved Process Information, which will be submitted according to the Compliance Schedule, Appendix B. Based on the following statute: [KRS 224.46-530(1)(g)]
T-64	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Capacity. The Permittee shall not exceed the total permitted container capacity specified in Permitted Capacities, Appendix C at any given time. Based on the following statute: [KRS 224.46-530(1)(g)]
T-65	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Permitted Waste. The Permittee shall only store those hazardous wastes specified in this permit in the specified container storage areas identified in this permit. Based on the following statute: [KRS 224.46-530(1)(g)]
T-66	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Non-Hazardous Waste. The Permittee may store non-hazardous materials/waste in the permitted container storage areas. The following requirements must be met; (1) The Permittee shall conduct necessary testing and analysis in accordance with the approved Waste Analysis Plan, or use generator knowledge, in order to ensure that materials stored in permitted container storage areas are compatible. (2) The Permittee shall ensure that non-hazardous materials/wastes in the container storage area is counted toward the total permitted storage capacity for that area. (3) The Permittee shall maintain inventories to ensure that permitted storage capacities are not exceeded. Based on the following statute: [KRS 224.46-530(1)(g)]
T-67	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Container Specifications. Other than chemical munitions, containers of hazardous waste shall meet performance oriented packaging (POP) standards as specified in 49 CFR Part 178, Subpart L, or other applicable DOT requirements before transporting out of the facility. Based on the following regulation and statutes: [401 KAR 38:060 Section 6(1)(c), 49 CFR 178.L, KRS 224.46-530(1)(g)]
T-68	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Condition of Container. If a container holding hazardous waste is not in good condition (e.g. severe rusting, apparent structural defects) or if it begins to leak, the Permittee shall transfer the hazardous waste from such container to a container that is in good condition, or otherwise manage the waste in compliance with the conditions of this permit. Based on the following regulation: [401 KAR 34:180 Section 2]

Narrative Requirements:

PART II - Specific Conditions - Management of Hazardous Waste in Containers:

Condition No.	Condition
T-69	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Compatibility of Waste With Containers. (1) The Permittee must use a container made of or lined with materials which will not react with, and are otherwise compatible, with the hazardous waste stored, so that the ability of the container to contain the waste is not impaired. (2) The Permittee shall conduct necessary testing and analysis in accordance with the approved Waste Analysis Plan, in order to ensure that materials stored in permitted container storage areas are compatible. Based on the following regulation: [401 KAR 34:180 Section 3]
T-70	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Keep Containers Closed. (1) A container holding hazardous waste must always be closed during storage except when it is necessary to add or remove waste. (2) Roll off bins that store hazardous waste must have covers. Based on the following regulation: [401 KAR 34:180 Section 4(1)]
T-71	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Proper Handling. A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container, or cause it to leak. Based on the following regulation: [401 KAR 34:180 Section 4(2)]
T-72	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Labeling. (1) Each EONC will be labeled upon receipt at the Container Handling Building. (2) The labeling of the individual munitions will not be required prior to destruction. (3) All other containers holding hazardous waste shall be labeled "Hazardous Waste" upon the date that hazardous waste is first added to the container. Based on the following regulations: [401 KAR 34:180 Section 4(3), 401 KAR 38:060 Section 6(1)(c)]
T-73	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Inspections. (1) At least weekly, the Permittee must visually inspect areas where containers are stored, looking for leaking containers and for deterioration of containers and the containment system caused by corrosion or other factors. (2) Chemical agent monitoring may be performed instead of visual internal inspections, on any EONC holding chemical munitions in the Container Handling Building for more than 7 days. (3) The Permittee will maintain the inspection forms in the Operating Record. (4) The Permittee will use the inspection procedures in the approved Procedures to Prevent Hazards. (5) The Permittee shall stage/store the containers so that the labels are fully visible and easy to inspect. Based on the following regulations: [401 KAR 34:180 Section 5, 401 KAR 38:060 Section 6(1)(c)]

Narrative Requirements:

PART II - Specific Conditions - Management of Hazardous Waste in Containers:

Condition No.	Condition
T-74	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Containment System. (1) Container storage areas must have a containment system that is designed and operated in accordance with section (2) of this condition, except as otherwise provided in section (3) of this condition. (2) A containment system must be designed and operated as follows: (a) A base must underlie the containers, which is free of cracks, gaps, and is sufficiently impervious to contain leaks, spills, and accumulated liquid until the collected material is detected and removed. (b) The base must be sloped or the containment system must be otherwise designed and operated to drain and remove liquids resulting from leaks, spills, or other liquids. (c) The containment system must have sufficient capacity to contain ten (10) percent of the volume of containers or the volume of the largest container, whichever is greater. Containers that do not contain free liquids need not be considered in this determination. (d) Run-on into the containment system must be prevented. (e) Pumpable liquid must be removed from the sump or collection area in as timely a manner as necessary to prevent overflow of the collection system. (f) The EONCs are acceptable secondary containment systems for the munitions contained within. (3) Storage areas that store containers holding only wastes that do not contain free liquids need not have a containment system defined by section (2) of this permit condition provided that: (a) The storage area is sloped or is otherwise designed and operated to drain and remove liquid resulting from precipitation; or (b) The containers are elevated or otherwise protected from contact with accumulated liquid. Based on the following regulations: [401 KAR 34:180 Section 6(1,2,3), 401 KAR 38:060 Section 6(1)(c)]
T-75	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Incompatible Waste. (1) The Permittee shall ensure that incompatible wastes or materials are not placed within the same container. (2) The Permittee shall ensure that hazardous wastes are not placed in an unwashed container that previously held an incompatible waste or material. (3) The Permittee shall ensure that containers holding hazardous wastes that are incompatible with other waste or materials stored nearby, are separated from the other materials or are protected by a dike, berm, wall, or other device. Based on the following regulation: [401 KAR 34:180 Section 8]
T-76	PART II - Specific Conditions - Management of Hazardous Waste in Containers: Remove at Closure. At closure, the Permittee shall remove all hazardous waste residues from the containment system. Remaining containers, liners, bases, and soil containing or contaminated with hazardous waste or hazardous waste residues shall be decontaminated or removed from the facility in accordance with the approved Closure Plan. Based on the following regulation: [401 KAR 34:180 Section 9]

Narrative Requirements:

PART II - Specific Conditions - Management of Hazardous Waste in Tanks:

Condition No.	Condition
T-77	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Catch All. The Permittee shall construct, operate, maintain, and inspect the tank systems specified in this permit and as specified in the approved attachments of this permit. Based on the following statute: [KRS 224.46-530(1)(g)]
T-78	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Tank Capacity. The Permittee shall not exceed the permitted tank capacity specified in Permitted Capacities, Appendix C at any given time. Based on the following statute: [KRS 224.46-530(1)(g)]
T-79	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Tank Content. The Permittee shall only manage those hazardous wastes specified in this permit in the specified tank system(s) identified in this permit. Based on the following statute: [KRS 224.46-530(1)(g)]
T-80	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Tank Assessment Report. (1) The Permittee shall submit to Hazardous Waste Branch Manager, three (3) months prior to the required date to begin installation of new tank system (including foundation), a written Tank Assessment Report, reviewed and certified by an Professional Engineer, licensed in the Commonwealth of Kentucky, attesting that the tank system has sufficient structural integrity and is acceptable for the storing and treating of hazardous waste. A licenced professional engineer, employed by the government, doe not have to be registered in the Commonwealth of Kentucky (KRS 322.030 (2)). Documentation supporting the professional engineer's certification shall be furnished to the Hazardous Waste Branch Manager upon request. (2) The Tank Assessment Report shall follow a format approved by the Cabinet in advance of the first report. (3) The assessment shall show that the foundation, structural support, seams, connections, and integral components are adequately designed and that the tank has sufficient structural strength, compatibility with the waste(s) to be stored or treated, and corrosion protection to ensure that it will not collapse, rupture, or fail. (4) The Tank Assessment Report used by the Cabinet to review, approve, or disapprove the acceptability of the tank system design, shall include at a minimum, the following information: (a) Design standards to which tank systems are constructed. (b) Hazardous characteristics of the wastes to be handled. (c) A construction drawing. (d) A corrosion assessment. (e) All items in the approved Tank Assessment Report format. Based on the following regulations: [401 KAR 34:190 Section 3(1)(a,b), 401 KAR 38:060 Section 6(1)(c)]

Narrative Requirements:

PART II - Specific Conditions - Management of Hazardous Waste in Tanks:

Condition No.	Condition
T-81	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Installation. (1) The Permittee shall ensure that proper handling procedures are adhered to in order to prevent damage to the tank system during installation. (2) Prior to covering, enclosing, or placing a new tank system or component in use, an independent, qualified installation inspector or an engineer, either of whom is trained and experienced in the proper installation of tank systems or components, shall inspect the system for the presence of any of the following items: (a) Weld breaks. (b) Punctures. (c) Scrapes of protective coatings. (d) Cracks. (e) Corrosion. (f) Other structural damage or inadequate construction and installation. (3) All discrepancies (for example, structural damage or inadequate construction and installation) shall be remedied before the tank system is covered, enclosed, or placed in use. Based on the following regulation: [401 KAR 34:190 Section 3(2)]
T-82	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Installation Continued (1) All new tanks and ancillary equipment 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 system shall be performed prior to the tank system being covered, enclosed, or placed into use. (2) Ancillary equipment shall be supported and protected against physical damage and excessive stress due to settlement, vibration, expansion, or contraction. (3) The Permittee shall provide the type and degree of corrosion protection recommended by an independent corrosion expert, or other corrosion protection if the Cabinet believes other corrosion protection is necessary to ensure the integrity of the tank system during use of the tank system. The installation of a corrosion protection system that is field fabricated shall be supervised by an independent corrosion expert to ensure proper installation. Based on the following regulation: [401 KAR 34:190 Section 3(4,5,6)]
T-83	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Tank Records. (1) The Permittee shall obtain and keep on file at the facility the Tank Assessment Reports and other written statements by those persons required to certify the design of the tank system and supervise the installation of the tank system that attest that the tank system was properly designed, installed, and that repairs, if necessary, were performed. (2) These records shall include the certification statement: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." Based on the following regulations: [401 KAR 34:190 Section 3(7)]

Narrative Requirements:

PART II - Specific Conditions - Management of Hazardous Waste in Tanks:

Condition No.	Condition
T-84	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Secondary Containment. In order to prevent the release of hazardous waste or hazardous constituents to the environment, secondary containment shall be provided for tank systems and components, prior to the receipt of hazardous waste. Based on the following regulation: [401 KAR 34:190 Section 4(1)]
T-85	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Secondary Containment Design Objectives. Secondary containment systems shall be: (1) Designed, installed, and operated to prevent any migration of wastes or accumulated liquid out of the system to the soil, groundwater, or surface water at any time during the use of the tank system. (2) Capable of detecting and collecting releases and accumulated liquids until the collected material is removed. Based on the following regulation: [401 KAR 34:190 Section 4(2)]
T-86	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Secondary Containment Design. Secondary containment systems shall be at a minimum: (1) Constructed of or lined with materials that are compatible with the wastes 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 waste to which it is exposed, climatic conditions, and the stress of daily operation (including stresses from nearby vehicular traffic). (2) Placed on a foundation or base capable of providing support 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. (3) 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 twenty-four (24) hours, or at the earliest practicable time if the Permittee can demonstrate to the Cabinet that existing detection technologies or site conditions will not allow detection of a release. (4) Sloped or otherwise designed or operated to drain and remove liquids resulting from leaks, spills, or precipitation. (5) Spilled or leaked waste and accumulated precipitation shall be removed from the secondary containment system within twenty-four (24) hours, or in as timely a manner as possible, to prevent harm to human health and the environment. (6) If the collected material is a hazardous waste, it is subject to management as a hazardous waste. Based on the following regulation: [401 KAR 34:190 Section 4(3)]

Narrative Requirements:

PART II - Specific Conditions - Management of Hazardous Waste in Tanks:

Condition No.	Condition
T-87	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Secondary Containment Types. Secondary containment for tanks shall include one (1) or more of the following devices: (1) A liner (external to the tank). (2) A vault. (3) A double-walled tank. (4) An equivalent device as approved by the Cabinet. Based on the following regulation: [401 KAR 34:190 Section 4(4)]
T-88	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Secondary Containment Size. Secondary containment systems shall satisfy the following requirements: (1) Designed and operated to contain 100 percent of the capacity of the largest tank within its boundary. (2) Designed and operated to prevent run-on or infiltration of precipitation into the secondary containment system unless the collection system has sufficient excess capacity to contain run-on or infiltration. Such additional capacity shall be sufficient to contain precipitation from a twenty-five (25) year, twenty-four (24) hour rainfall event. (3) Free of cracks or gaps. (4) Designed and installed to surround the tank completely and to cover all surrounding earth likely to come into contact with the waste if the waste is released from the tank system (that is, capable of preventing lateral as well as vertical migration of the waste). Based on the following regulation: [401 KAR 34:190 Section 4(5)]
T-89	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Double Walled Tanks. Double-walled tanks shall be: (1) Designed as an integral structure (that is, an inner tank completely enveloped within an outer shell) so that any release from the inner tank is contained by the outer shell. (2) Protected, if constructed of metal, from both corrosion of the primary tank interior and of the external surface of the outer shell. (3) Provided with a built-in continuous leak detection system capable of detecting a release within twenty-four (24) hours, or at the earliest practicable time. Based on the following regulation: [401 KAR 34:190 Section 4(5)(c)]

Narrative Requirements:

PART II - Specific Conditions - Management of Hazardous Waste in Tanks:

Condition No.	Condition
T-90	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: General Operating Requirements. (1) Hazardous wastes or treatment reagents shall not be placed in a tank system if they may cause the tank, its ancillary equipment, or the secondary containment system to rupture, leak, or otherwise fail. (2) The Permittee shall use appropriate controls and practices to prevent spills and overflows from tank or secondary containment systems. These include at a minimum: (a) Spill prevention controls (for example, check valves or dry disconnect couplings). (b) Overfill prevention controls (for example, level sensing devices, high level alarms, automatic feed cutoff, or bypass to a standby tank). (c) Maintenance of sufficient freeboard in uncovered tanks to prevent overtopping by wave or wind action or by precipitation. Based on the following regulation: [401 KAR 34:190 Section 5]
T-91	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Response to Leaks or Spills and Disposition of Leaking or Unfit-For-Use Tank Systems. A tank system or secondary containment system from which there has been a leak or spill, or which is unfit for use, shall be removed from service immediately, and the Permittee shall satisfy the following requirements: (1) Immediately stop the flow of hazardous waste into the tank system or secondary containment system and inspect the system to determine the cause of the release. (2) 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 within twenty-four (24) hours after detection of the leak. (3) Immediately conduct a visual inspection of the release and based upon that inspection shall: (a) Prevent further migration of the leak or spill to soils or surface water; and (b) Remove, and properly dispose of, any visible contamination of the soil or surface water. (4) Follow the reporting and notification procedures in this permit, for a release. (5) Repair the failed component or close the tank system. Based on the following regulations: [401 KAR 38:060 Section 6(1)(c), 401 KAR 34:190 Section 7]
T-92	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Tank System Repair Certification (1) If the Permittee has repaired a tank system, and the repair was extensive (for example, installation of an internal liner, repair of a ruptured primary containment or secondary containment vessel), the tank system shall not be returned to service until the Permittee has obtained a certification by a professional engineer licensed in the Commonwealth of Kentucky, that the repaired system is capable of handling hazardous wastes without release for the intended life of the system. A licensed professional engineer, employed by the government, doe not have to be registered in the Commonwealth of Kentucky (KRS 322.030 (2)). (2) This certification shall be submitted to and approved by the Cabinet before returning the tank system to use. Based on the following regulation: [401 KAR 34:190 Section 7]

Narrative Requirements:

PART II - Specific Conditions - Management of Hazardous Waste in Tanks:

Condition No.	Condition
T-93	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Inspections. (1) The Permittee shall inspect tank systems equipment according to schedule approved by the Cabinet before receipt of hazardous waste. (2) These inspections will become part of the Operating Record. Based on the following regulation: [401 KAR 34:190 Section 6]
T-94	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Special Requirements for Ignitable or Reactive Wastes. Ignitable or reactive waste shall not be placed in a tank unless: (1) The waste is treated, rendered, or mixed before or immediately after placement in the tank so that: (a) The resulting waste, mixture or dissolved material no longer meets the definition of ignitable or reactive waste. (b) Section 8(2) of 401 KAR 34:020 (General Requirements for Ignitable, Reactive, or Incompatible Wastes) is complied with; or (2) The waste is stored or treated in such a way that it is protected from any material or conditions that may cause the waste to ignite or react; or (3) The tank system is used solely for emergencies. Based on the following regulation: [401 KAR 34:190 Section 9(1)]
T-95	PART II - Specific Conditions - Management of Hazardous Waste in Tanks: Special Requirements for Incompatible Wastes. Incompatible wastes, or incompatible wastes and materials shall not be placed in the same tank, and hazardous waste shall not be placed in a tank system that has not been decontaminated and that previously held an incompatible waste or material; unless the Permittee takes precautions to prevent reactions which: (1) Generate extreme heat or pressure, fire or explosions, or violent reactions. (2) Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health or the environment. (3) Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosion. (4) Damage the structural integrity of the device or facility; or (5) Through other like means threaten human health or the environment. Based on the following regulation: [401 KAR 34:190 Section 10]

Narrative Requirements:

PART II - Specific Conditions - Management of Hazardous Waste in Miscellaneous Units:

Condition No.	Condition
T-96	PART II - Specific Conditions - Management of Hazardous Waste in Miscellaneous Units: Environmental Performance Standards. (1) Miscellaneous unit shall be located, designed, constructed, operated, and maintained, and closed in a manner that shall ensure protection of human health and the environment. (2) Miscellaneous units are to contain provisions as necessary to protect human health and the environment, including, but not limited to design, operating requirements, detection and monitoring requirements, requirements for responses to releases of hazardous waste or hazardous constituents from the unit. (3) Miscellaneous units shall meet the requirements, as necessary, of; (a) Container Management, 401 KAR 34:180. (b) Tanks, 401 KAR 34:190. (c) Land Management, 401 KAR 34:220. (d) Air Emission Standards (see Appendix D, Units Subject to Air Emission Standards), 401 KAR 34:275, 34:280, 34:281, (e) Drip Pads, 401 KAR 34:285. (f) Other requirements in Chapter 38, and 40 CFR Part 264 and 270, that are appropriate for the individual miscellaneous unit. Based on the following regulations: 401 KAR 34:350, [401 KAR 38:060 Section 6(1)(c), 401 KAR 34:250 Section 2(1)]
T-97	PART II - Specific Conditions - Management of Hazardous Waste in Miscellaneous Units: No Harmful Releases to Soil, Surface Water, or Groundwater. The Permittee shall prevent any releases from miscellaneous units that may have adverse effects on human health or the environment due to migration of waste constituents in surface water, or wetlands, or on the soil surface considering: (1) The volume and physical and chemical characteristics of the waste in the unit. (2) The effectiveness and reliability of containing, confining, and collecting systems and structures in preventing migration. (3) The hydrologic characteristics of the unit and the surrounding area, including the topography of the land around the unit. (4) The patterns of precipitation in the region. (5) The quantity, quality, and direction of groundwater flow. (6) The proximity of the unit to surface waters. (7) The current and potential uses of nearby surface waters and any water quality standards established for those surface waters. (9) The existing quality of surface waters and surface soils, including other sources of contamination and their cumulative impact on surface waters and surface soils. (10) The patterns of land use in the region. (11) The potential for health risks caused by human exposure to waste constituents. (12) The potential for damage to domestic animals, wildlife, crops, vegetation and physical structures caused by exposure to waste constituents. Based on the following regulation: [401 KAR 34:250 Section 2(2)]

Narrative Requirements:

PART II - Specific Conditions - Management of Hazardous Waste in Miscellaneous Units:

Condition No.	Condition
T-98	PART II - Specific Conditions - Management of Hazardous Waste in Miscellaneous Units: No Harmful Releases to the Atmosphere. The Permittee shall prevent any release from miscellaneous units that may have adverse effects on human health or the environment due to migration of waste constituents in the air, considering: (1) The volume and physical and chemical characteristics of the waste in the unit, including its potential for the emission and dispersal of gases, aerosols and particulates. (2) The effectiveness and reliability of systems and structures to reduce or prevent emissions of hazardous constituents to the air. (3) The operating characteristics of the unit. (4) The atmospheric, meteorologic, and topographic characteristics of the unit and the surrounding area. (5) The existing quality of the air, including other sources of contamination and their cumulative impact on the air. (6) The potential for health risks caused by human exposure to waste constituents. (7) The potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents. Based on the following regulation: [401 KAR 34:250 Section 2(3)]
T-99	PART II - Specific Conditions - Management of Hazardous Waste in Miscellaneous Units: Capacity The Permittee shall not exceed the total permitted capacity of any miscellaneous unit at any given time. Based on the following regulation: [KRS 224.46-530(1)(g)]

PART III - Standard Conditions - Effect of the Permit:

Condition No.	Condition
T-100	PART III - Standard Conditions - Effect of the Permit: (1) Compliance with the terms of this permit constitutes compliance for purposes of enforcement with KRS 224 except for those requirements not included in the permit which: (a) Become effective by statute. (b) Are promulgated under 401 KAR Chapter 37 (Land Disposal Restrictions) restricting the placement of hazardous wastes in or on the land. (c) Are promulgated under 401 KAR 35:275, 35:280, or 35:281 (Air emission Standards). (d) Are necessary to protect human health or the environment. (e) Are added as additional information becomes available from submissions in the Compliance Schedule, Appendix B. (2) The issuance of this permit does not authorize injury to persons or property or invasion of other private rights, or any infringement of state or local laws or administrative regulations. Based on the following regulations: 401 KAR 45:135 Section 2(1)(c), [401 KAR 38:010 Section 3]

Narrative Requirements:

PART III - Standard Conditions - Severability:

Condition No.	Condition
T-101	PART III - Standard Conditions - Severability: Immediately Terminate Operations (1) The Cabinet may order an immediate termination of all operations at the facility at any time it is determined that termination is necessary to protect human health or the environment. (2) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. Based on the following regulations: 401 KAR 45:135, Section 2(3), [401 KAR 30:020 Section 5]

PART III - Standard Conditions - Definitions:

Condition No.	Condition
T-102	PART III - Standard Conditions - Definitions: Catch All. (1) Terms used in this permit shall have the same meaning as those in Title 401 of Kentucky Administrative Regulations, Chapters 30, 34, and 38, unless this permit specifically provides otherwise. (2) Where terms are not otherwise defined, the meaning associated with such terms shall be as defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term. Based on the following regulation: [401 KAR 30:010 Section 1]
T-103	PART III - Standard Conditions - Definitions: "Contamination" means: The degradation of naturally occurring water, air, or soil quality either directly or indirectly as a result of human activities. Based on the following regulation: [401 KAR 34:005 Section 1(48)]
T-104	PART III - Standard Conditions - Definitions: "Extent of Contamination" is: The horizontal and vertical area in which the concentrations of hazardous constituents in the environmental media being investigated are above detection limits or background concentrations indicative of the region, whichever is appropriate as determined by the Cabinet. Based on the following statute: [KRS 224.46-530(1)(g)]

Narrative Requirements:

PART III - Standard Conditions - Definitions:

Condition No.	Condition
T-105	PART III - Standard Conditions - Definitions: "Hazardous Waste or Hazardous Constituent" are (1) Those substances listed in 401 KAR 31:170 (Appendix on Hazardous Waste Constituents), and include hazardous constituents released from solid waste, and hazardous constituents that are reaction byproducts. (2) Constituents conforming to the requirements of the Resource Conservation and Recovery Act (RCRA), as amended. (3) Blister or nerve agents, or their derivatives, used for chemical warfare. This includes GB (Sarin), VX, and H (Mustard). Based on the following regulation and statutes: KRS 224.50-130(2), [401 KAR 31:170, KRS 224.01-010(42)]
T-106	PART III - Standard Conditions - Definitions: "Facility" means: All land within the double security fence, structures, other appurtenances, and improvements on the land, used by BGCAPP for treating, storing, or disposing of hazardous waste. Based on the following statutes: KRS 224.50-130, [KRS 224.46-530(1)(g)]
T-107	PART III - Standard Conditions - Definitions: "Solid Waste Management Unit" means (1) Any discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at a facility at which solid wastes have been routinely and systematically released. (2) RCRA regulated hazardous waste management unit. Based on the following regulation and statute: [401 KAR 34:005 Section 1(255), KRS 224.46-530(1)(g)]
T-108	PART III - Standard Conditions - Definitions: "Solid Waste" means: Any garbage, refuse, sludge, and other discarded material, including solid, liquid, semi-solid, or contained gaseous material resulting from industrial, commercial, mining (excluding coal mining wastes, coal mining by-products, refuse and overburden), agricultural operations, and from community activities, but does not include those materials including, but not limited to, sand, soil, rock, gravel, or bridge debris extracted as part of a public road construction project funded wholly or in part with state funds, recovered material, special wastes as designated by KRS 224.50-760, solid or dissolved material in domestic sewage, manure, crops, crop residue, or a combination thereof which are placed on the soil for return to the soil as fertilizers or soil conditioners, or solid or dissolved material in irrigation return flows or industrial discharges which are point sources subject to permits Section 402 of the Federal Water Pollution Control Act as amended (86 Stat. 880), or source, special nuclear, or by product material as defined by the Atomic Energy Act of 1954, as amended (68 Stat. 923). Based on the following statute: [KRS 224.46-530(1)(g)]
T-109	PART III - Standard Conditions - Definitions: "Manager" means: Hazardous Waste Branch Manager within the Division of Waste Management. A reference to "Director" means Director, Division of Waste Management. A reference to "KDEP" means Kentucky Department for Environmental Protection. A reference to "Cabinet" means Environmental and Public Protection Cabinet. The terms "Manager, Director, KDEP, and Cabinet" can be used interchangeably. Based on the following regulation: [KRS 224.46-530(1)(g)]

Narrative Requirements:

PART III - Standard Conditions - Definitions:

Condition No.	Condition
T-110	PART III - Standard Conditions - Definitions: A "Release" includes: Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment, of any hazardous waste or hazardous waste constituents. Based on the following statute: [KRS 224.46-530(1)(g)]
T-111	PART III - Standard Conditions - Definitions: A "Unit": Includes, but is not limited to any area in which waste has been placed on or in the ground, any landfill, surface impoundment, waste pile, land treatment unit, incinerator, injection well, tank, container storage area, septic tank, drain field, wastewater treatment unit, elementary neutralization unit, transfer facility, or recycling equipment. Based on the following statute: [KRS 224.46-530(1)(g)]

PART III - Standard Conditions - Duties and Requirements:

Condition No.	Condition
T-112	PART III - Standard Conditions - Duties and Requirements: Duty to Comply. The Permittee must comply with all conditions of this permit. Any permit non-compliance constitutes a violation of KRS Chapter 224 and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application. Based on the following regulation: [401 KAR 38:030 Section 1(1)]
T-113	PART III - Standard Conditions - Duties and Requirements: Duty to Reapply. (1) If the Permittee wishes to continue any activity allowed under this permit beyond the expiration date, the Permittee must apply for and obtain a new permit or a renewal. (2) The Permittee holding a Research, Development, and Demonstration Permit shall submit a renewal application at least 180 days prior to the expiration of the initial permit. (3) The Permittee, when applying for a new or renewal of a Research, Development, and Demonstration Permit shall use form DEP 7094B entitled "Application For A Research, Development, and Demonstration Permit" (March 1992). (4) The Cabinet may require that additional information be included in the application to ensure the protection of human health or the environment. Based on the following regulations: [401 KAR 38:030 Section 1(2), 401 KAR 38:060 Section 6(1)(c)]

Narrative Requirements:

PART III - Standard Conditions - Duties and Requirements:

Condition No.	Condition
T-114	PART III - Standard Conditions - Duties and Requirements: Duty to Halt or Reduce Activity. (1) The Cabinet may order an immediate termination of all operations at the facility at any time it is determined that termination is necessary to protect human health or the environment. (2) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of this permit. Based on the following regulations: [401 KAR 38:030 Section 1(3), 401 KAR 38:060 Section 6(3)]
T-115	PART III - Standard Conditions - Duties and Requirements: Duty to Mitigate. The Permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are necessary to prevent any significant adverse impacts on the environment resulting from non-compliance with this permit. Based on the following regulations: [401 KAR 38:030 Section 1(4), 401 KAR 38:060 Section 6(1)(c)]
T-116	PART III - Standard Conditions - Duties and Requirements: Duty to Properly Operate and Maintain. (1) The Permittee shall at all times properly operate and maintain BGCAPP facilities and systems of treatment and control (and related appurtenances) that are installed or used by the Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes; (a) Effective performance. (b) Adequate funding. (c) Adequate operator staffing and training. (d) Adequate laboratory and process controls, including appropriate quality assurance procedures. (e) Adequate agent monitoring. (2) This condition requires the operation of backup or auxiliary equipment, or similar systems, when necessary, to achieve compliance with the conditions of this permit. Based on the following regulations: [401 KAR 38:030 Section 1(5), 401 KAR 38:060 Section 6(1)(c)]
T-117	PART III - Standard Conditions - Duties and Requirements: Duty to Provide Information. (1) The Permittee shall furnish the Hazardous Waste Branch Manager, within a reasonable time, any information which the Cabinet may request, to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. (2) The Permittee shall also furnish the Hazardous Waste Branch Manager, upon request, with copies of any record kept as a requirement of this permit. Based on the following regulation: [401 KAR 38:030 Section 1(8)]

Narrative Requirements:

PART III - Standard Conditions - Duties and Requirements:

Condition No.	Condition
T-118	PART III - Standard Conditions - Duties and Requirements: Duty to Allow Entry and Inspection. The Permittee shall allow the Cabinet, or an authorized representative, upon presentation of credentials to: (1) Enter at any time, the Permittee's premises where the regulated facility or activity is located or conducted; or where records are kept as a condition of this permit. (2) To have access to, and copy, any records that are kept as a condition of this permit. (3) To inspect any of the facility's equipment, (including monitoring and control equipment), practices, or operations regulated or required by this permit. (4) To sample or monitor any substances or parameters, at any location, for the purposes of assuring permit compliance authorized by Kentucky Revised Statutes. (5) Split samples and copies of analysis will be provided to the Permittee upon request. Based on the following regulations: [401 KAR 38:030 Section 1(9), 401 KAR 38:060 Section 6(1)(c)]
T-119	PART III - Standard Conditions - Duties and Requirements: Duty to Allow Cabinet to Inspect New Units. The Permittee shall not begin treatment or storage of hazardous wastes in any new or proposed Solid Waste Management Unit, until the Permittee has complied with the following: (1) The Permittee has submitted to the Hazardous Waste Branch Manager, by certified mail or hand delivery, a letter signed by the Permittee and a professional engineer licensed in the Commonwealth of Kentucky stating that the Solid Waste Management Unit was constructed in accordance with this permit. A licensed professional engineer, employed by the government, does not have to be registered in the Commonwealth of Kentucky (KRS 322.030 (2)). (2) The Permittee has received confirmation that the appropriate Cabinet personnel has inspected the new Solid Waste Management Unit and has determined that the new unit is in compliance with the conditions of this permit, or; (3) The Permittee has received confirmation that the Cabinet has either waived the inspection, or has within fifteen (15) days, notified the Permittee of the Cabinet's intent to not inspect. Based on the following regulation and statute: [401 KAR 38:030 Section 1(9), KRS 224.46-530(1)(g)]

Narrative Requirements:

PART III - Standard Conditions - Duties and Requirements:

Condition No.	Condition
T-120	PART III - Standard Conditions - Duties and Requirements: Duty to Monitor and Record. (1) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (2) The Permittee shall retain records of all monitoring information, including all calibration and maintenance records for continuous monitoring instrumentation, copies of all reports required by this permit, land disposal certifications, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report, certification or application. This period may be extended by request of the Cabinet at any time. In addition, the Permittee shall maintain records from all groundwater testing, until closure is completed. (3) Records of monitoring information shall include: (a) The date, exact place, and time of sampling or measurements. (b) The individual(s) who performed the sampling or measurements. (c) The date(s) analyses were performed. (d) The individual(s) who performed the analyses. (e) The analytical techniques or methods used. (f) The results of such analyses. Based on the following regulations: [401 KAR 38:030 Section 1(10), 401 KAR 38:060 Section 6(1)(c)]
T-121	PART III - Standard Conditions - Duties and Requirements: Duty to Sign and Certify. (1) All applications, reports, or information submitted to the Cabinet shall be signed and certified by the Depot Commander, or by a duly authorized representative of that person. (2) Certifications shall include the language; "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." Based on the following regulations: [401 KAR 38:030 Section 1(11), 401 KAR 38:070 Section 7(4)]
T-122	PART III - Standard Conditions - Duties and Requirements: Duty to Report. The Permittee shall give notice to the Hazardous Waste Branch Manager as soon as possible of any planned physical alterations or additions to the facility that could affect Solid Waste Management Units, or Areas of Concern identified at this facility. Based on the following regulation: [401 KAR 38:030 Section 1(12)(a)]
T-123	PART III - Standard Conditions - Duties and Requirements: Anticipated Noncompliance. The Permittee shall give advance notice to the Hazardous Waste Branch Manager of any planned change in the permitted facility or activity that may result in non-compliance with permit requirements. Based on the following regulation: [401 KAR 38:030 Section 1(12)(b)]

Narrative Requirements:

PART III - Standard Conditions - Duties and Requirements:

Condition No.	Condition
T-124	PART III - Standard Conditions - Duties and Requirements: Duty to Submit Compliance Schedule Items. Items contained in the RD&D Compliance Schedule, Appendix B, of this permit shall be submitted on schedule. Based on the following regulations: [401 KAR 38:030 Section 1(12)(e), 401 KAR 38:060 Section 6(1)(c)]
T-125	PART III - Standard Conditions - Duties and Requirements: Immediate Notification. (1) The Permittee shall report any noncompliance with the permit, which may endanger human health or the environment, orally, within two (2) hours from the time the Permittee becomes aware of the circumstances. (2) The following must be reported orally within two (2) hours; (a) Information concerning the release or discharge of any hazardous waste that may cause an endangerment to public drinking water supplies, including both surface water and groundwater used for public drinking water supply. (b) Chemical agent concentrations at the Depot boundary exceeding the General Population Limit as determined in the Monitoring Plan as a result of a BGCAPP activity (c) Any information of a release or discharge of hazardous waste, or of a fire or explosion, which could threaten human health or the environment outside the facility. The description of the occurrence shall include; (1) Name, address, and telephone number of the Permittee. (2) Name, address, and telephone number of the facility. (3) Date, time and type of incident. (4) Name and quantity of material(s) involved. (5) The extent of injuries, if any. (6) An assessment of actual or potential hazards to the environment and human health outside the facility. (7) Estimated quantity and disposition of recovered material that resulted from the incident. Based on the following regulations: [401 KAR 38:060 Section 6(1)(c), 401 KAR 38:030 Section 1(12)(f)]
T-126	PART III - Standard Conditions - Duties and Requirements: Written Notification. A written submission shall also be provided within seven (7) days of the time the Permittee becomes aware of a release, which may endanger human health or the environment. The written submission shall contain: (a) A description of the non-compliance and its cause; the periods of non-compliance (including exact dates and times). (b) Whether the non-compliance has been corrected. (c) If the non-compliance has not been corrected, the anticipated time it is expected to continue (d) Steps planned or taken to reduce, eliminate, and prevent reoccurrence of the non-compliance. Based on the following regulations: [401 KAR 38:060 Section 6(1)(c), 401 KAR 38:030 Section 1(12)(f)]

Narrative Requirements:

PART III - Standard Conditions - Duties and Requirements:

Condition No.	Condition
T-127	PART III - Standard Conditions - Duties and Requirements: Immediate Notification Phone number. The Permittee must call the Kentucky twenty-four hour (24) reporting number (502) 564-7815, to orally report non-compliance with any condition in this permit, which could threaten human health or the environment. Based on the following regulation: [401 KAR 38:030 Section 1(12)(f)]
T-128	PART III - Standard Conditions - Duties and Requirements: Duty to Report Non-Compliance Not Previously Reported. The Permittee shall report all instances of non-compliance not reported above, at the time annual reports are submitted. The reports shall contain the following information: (1) Name, address, and telephone number of the owner or operator. (2) Name, address, and telephone number of the facility. (3) Date, time and type of incident. (4) Name and quantity of material(s) involved. (5) The extent of injuries, if any. (6) An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable. (7) Estimated quantity and disposition of recovered material that resulted from the incident. Based on the following regulation: [401 KAR 38:030 Section 1(12)(g)]
T-129	PART III - Standard Conditions - Duties and Requirements: Duty to Provide Other New Information. (1) When the Permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Cabinet, he shall promptly submit such facts or information to the Hazardous Waste Branch Manager. (2) The Permittee shall furnish to the Hazardous Waste Branch Manager, upon request, any information related to compliance with this permit. Based on the following regulations: [401 KAR 38:030 Section 1(12)(i), 401 KAR 38:060 Section 6(1)(c)]
T-130	PART III - Standard Conditions - Duties and Requirements: Duty to Provide Advance Sampling Notification. (1) The Permittee shall, at a minimum, provide one (1) week advance notification to the KDEP, Frankfort Field Office (502) 564-3358, and the Hazardous Waste Branch manager, of any environmental media sampling event required by this permit or its effects, in order to determine hazardous baseline, background, or contamination levels. (2) During an environmental emergency, the Permittee is not required to provide advance notification. Based on the following statute: [KRS 224.46-530(1)(g)]

Narrative Requirements:

PART III - Standard Conditions - Changes to the Permit:

Condition No.	Condition
T-131	PART III - Standard Conditions - Changes to the Permit: New Additions or Alterations. The Cabinet may modify this permit when there are material and substantial alterations or additions to the BGCAPP facility or activity which occurred after permit issuance, which justify the application of permit conditions that are different or absent in this permit. Based on the following regulation: [401 KAR 38:040 Section 2(1)(a)]
T-132	PART III - Standard Conditions - Changes to the Permit: New Information. (1) The Cabinet may modify this permit when the Cabinet receives new information. (2) Permits may be modified during their terms for this cause, if the information was not available at the time of permit issuance and justify the application of different permit conditions. Based on the following regulation: [401 KAR 38:040 Section 2(1)(b)]
T-133	PART III - Standard Conditions - Changes to the Permit: New Statutes, Standards, or Administrative Regulations. The Cabinet may modify this permit when the standards or administrative regulations on which the permit was based have been changed by statute, amended standards, or administrative regulations, or by judicial decision after the permit was issued. Based on the following regulations: [401 KAR 38:040 Section 2(1)(c)1, 401 KAR 38:060 Section 6(1)(c)]
T-134	PART III - Standard Conditions - Changes to the Permit: Transfer. (1) This Permit may be transferred to a new operator only if it is modified, in order to identify the new operator and incorporate such other requirements as may be necessary under KRS Chapter 224. (2) Before transferring operation of the facility, the Permittee shall notify the new operator in writing of the requirements of 401 KAR Chapters 38 and 34 and this permit. (3) This permit is not transferable to any person except after approval by the Cabinet. Based on the following regulations: [401 KAR 38:040 Section 2(2)(b), 401 KAR 38:050 Section 2, 401 KAR 38:040 Section 3, 401 KAR 38:060 Section 6(1)(c)]

Narrative Requirements:

PART III - Standard Conditions - Confidential Information:

Condition No.	Condition
T-135	PART III - Standard Conditions - Confidential Information: Claims. (1) Any information submitted to the Hazardous Waste Branch Manager can be claimed as confidential by the submitter. (2) Any such claim shall be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information (3) If no claim is made at the time of submission, the Cabinet may make the information available to the public without further notice. (4) If a claim is asserted, the information will be treated in accordance with the procedures of the Cabinet relating to confidentiality of information. Based on the following regulations and statutes: [400 KAR 1:060, 401 KAR 38:070 Section 8, KRS 224.10-210, KRS 224.10-212]
T-136	PART III - Standard Conditions - Confidential Information: "Confidential Business Information" means: Any record or other information relating to BGCAPP which is not of public knowledge or general knowledge, the disclosure of which would be likely to have the following effects; (1) Will impair the Cabinet's ability to obtain necessary information in the future, or; (2) Will create an unfair advantage in the competitors of the person from which the information was obtained. Based on the following regulations: [400 KAR 1:060 Section 1(4)]
T-137	PART III - Standard Conditions - Confidential Information: Statement of Basis for Claim. (1) When a claim that a record or other information is entitled to confidential treatment is made, the Permittee shall submit a statement in support of the claim. (2) The statement shall contain: (a) The name and address of the Permittee. (b) The reason for submitting the record or other information to the Cabinet, including whether the submittal is voluntary or required by law. (c) Whether there has been a previous determination by a court, an Environmental Protection Agency legal office acting under 40 CFR Part 2, Subpart B, or other governmental agency that the record or other information is, or is not, entitled to confidential treatment. (d) The measures taken by the Permittee to protect the confidentiality of the record or other information, and whether it intends to continue to take such measures. (e) Whether the information is not, and has not been, reasonably obtainable without the Permitte's consent by other persons, other than governmental bodies, by use of legitimate means (other than discovery based upon a showing of special need in a judicial or quasi-judicial hearing). (f) Whether the record or other information is customarily held in confidence by the Permittee and persons like them. (g) The manner in which disclosure of the information is likely to create an unfair advantage for the competitors of the Permittee. (h) The basis for asserting that disclosure is likely to impair the Cabinet's ability to obtain necessary information in the future. Based on the following regulation: [400 KAR 1:060 Section 3]

Narrative Requirements:

PART VI - Land Disposal Restrictions - General Restrictions:

Condition No.	Condition
T-138	PART VI - Land Disposal Restrictions - General Restrictions: Comply With. The Permittee shall maintain compliance with Land Disposal Restrictions in 401 KAR Chapter 37. Based on the following regulations: [401 KAR 37:010, 401 KAR 38:060 Section 6(1)(c)]
T-139	PART VI - Land Disposal Restrictions - General Restrictions: Prohibitions on Storage of Restricted Waste. Except as provided in this condition, the storage of hazardous wastes restricted from land disposal (401 KAR 37:030) is prohibited, unless the following conditions are met: (1) The Permittee stores such wastes in tanks, or containers solely for the purpose of the accumulation of such quantities of hazardous waste as necessary to facilitate proper recovery, treatment, or disposal and; (2) Each container is clearly labeled with the words "Hazardous Waste," marked to identify its contents and the date each period of accumulation begins. (3) Each tank is clearly labeled with the words "Hazardous Waste," marked to identify its contents, the quantity of each hazardous waste received, and the date each period of accumulation begins. (4) Such information for each tank shall be maintained in the Operating Record at that facility. Based on the following regulation: [401 KAR 37:050 Section 1(1)]
T-140	PART VI - Land Disposal Restrictions - General Restrictions: One Year Storage Limit. The Permittee may store hazardous waste restricted from land disposal under 401 KAR 37:030, in tanks, for up to one (1) year, if the accumulation of such quantities of hazardous waste is necessary to facilitate proper recovery, treatment, or disposal. Based on the following regulation: [401 KAR 37:050 Section 1(2)]

Narrative Requirements:

PART VII - RCRA Organic Air Emission Standards - Subpart AA:

Condition No.	Condition
T-141	PART VII - RCRA Organic Air Emission Standards - Subpart AA: Applicability. Air Emission Standards for Process Vents (Subpart AA) will apply to units that manage hazardous waste with an organic concentration of 10 ppmw or more in a process that involves; (1) Distillation (2) Fractionation (3) Thin Film Evaporation (4) Solvent Extraction (5) Air Stripping (6) Steam Stripping and meets the definition in 401 KAR 34:275. Based on the following regulations: [401 KAR 34:275, 401 KAR 38:060 Section 6(1)(c)]
T-142	PART VII - RCRA Organic Air Emission Standards - Subpart AA: Affected Units. Air Emission Standards for Process Vents (Subpart AA) shall apply to the units listed in the approved Appendix D, Units Subject to Air Emission Standards. Based on the following regulations: [401 KAR 34:275, 401 KAR 38:060 Section 6(1)(c)]
T-143	PART VII - RCRA Organic Air Emission Standards - Subpart AA: Conditions. The permit conditions for units subject to Air Emissions Standards for Process Vents, are listed in Appendix E, Permit Conditions for Air Emissions Standards for Process Vents. Based on the following regulations: [401 KAR 34:275, 401 KAR 38:060 Section 6(1)(c)]

PART VII - RCRA Organic Air Emission Standards - Subpart BB:

Condition No.	Condition
T-144	PART VII - RCRA Organic Air Emission Standards - Subpart BB: Applicability. Air Emission Standards for Equipment Leaks (Subpart BB) will apply to equipment that comes into contact with waste that has a volatile organic content of 10 percent or more by weight, and meets the definition in 401 KAR 34:280. Based on the following regulations: [401 KAR 34:280, 401 KAR 38:060 Section 6(1)(c)]

Narrative Requirements:

PART VII - RCRA Organic Air Emission Standards - Subpart BB:

Condition No.	Condition
T-145	PART VII - RCRA Organic Air Emission Standards - Subpart BB: Affected Units. Air Emission Standards for Equipments Leaks (Subpart BB) shall apply to the units listed in the approved Appendix D, Units Subject to Air Emission Standards. Based on the following regulations: [401 KAR 34:280, 401 KAR 38:060 Section 6(1)(c)]
T-146	PART VII - RCRA Organic Air Emission Standards - Subpart BB: Conditions. The permit conditions for units subject to Air Emissions Standards for Equipment Leaks, are listed in Appendix F, Permit Conditions for Air Emissions Standards for Equipment Leaks. Based on the following regulations: [401 KAR 34:280, 401 KAR 38:060 Section 6(1)(c)]

PART VII - RCRA Organic Air Emission Standards - Subpart CC:

Condition No.	Condition
T-147	PART VII - RCRA Organic Air Emission Standards - Subpart CC: Applicability. Air Emission Standards for Tanks, Surface Impoundments, and Containers (Subpart CC) will apply to containers that have a capacity of more than 26 gallons, and stationary tanks that manage waste of 500 ppmw or higher volatile organic concentration, and meets the definition in 401 KAR 34:281. Based on the following regulations: [401 KAR 34:281, 401 KAR 38:060 Section 6(1)(c)]
T-148	PART VII - RCRA Organic Air Emission Standards - Subpart CC: Affected Units. Air Emission Standards for Tanks, Surface Impoundments, and Containers (Subpart CC) shall apply to the units listed in the approved Appendix D, Units Subject to Air Emission Standards. Based on the following regulations: [401 KAR 34:281, 401 KAR 38:060 Section 6(1)(c)]
T-149	PART VII - RCRA Organic Air Emission Standards - Subpart CC: Conditions. The permit conditions for units subject to Air Emissions Standards for Tanks, Surface Impoundments, and Containers, are listed in Appendix G, Permit Conditions for Air Emissions Standards for Tanks, Surface Impoundments, and Containers. Based on the following regulations: [401 KAR 34:281, 401 KAR 38:060 Section 6(1)(c)]

Narrative Requirements:

PART VIII - Referenced Attachments:

Condition No.	Condition
T-150	PART VIII - Referenced Attachments: A list of permitted Hazardous Waste Managements Units is incorporated as Appendix A of this permit. Based on the following statute: [KRS 224.46-530(1)(g)]
T-151	PART VIII - Referenced Attachments: A RD&D Compliance Schedule is incorporated as Appendix B of this permit. Based on the following regulation and statute: 401 KAR 45:135, Section 2(1)(c), [KRS 224.46-530(1)(g)]
T-152	PART VIII - Referenced Attachments: A list of Hazardous Waste Management Units Subject To Air Emission Standards is incorporated as Appendix D of this permit. Based on the following statute: [KRS 224.46-530(1)(g)]
T-153	PART VIII - Referenced Attachments: A list of permitted capacities is incorporated as Appendix C of this permit. Based on the following statute: [KRS 224.46-530(1)(g)]
T-154	PART VIII - Referenced Attachments: Air Emission Standards, Subpart AA Conditions are incorporated as Appendix E of this permit. Based on the following statute: [KRS 224.46-530(1)(g)]
T-155	PART VIII - Referenced Attachments: Air Emission Standards, Subpart BB Conditions are incorporated as Appendix F of this permit. Based on the following statute: [KRS 224.46-530(1)(g)]
T-156	PART VIII - Referenced Attachments: Air Emission Standards, Subpart CC Conditions are incorporated as Appendix G of this permit. Based on the following statute: [KRS 224.46-530(1)(g)]
T-157	PART VIII - Referenced Attachments: The Research, Development and Demonstration Permit Application, Volume I is incorporated as part of this permit. Based on the following statute: [KRS 224.46-530(1)(g)]
T-158	PART VIII - Referenced Attachments: The Research, Development and Demonstration Permit Application, Volume II is incorporated as part of this permit. Based on the following statute: [KRS 224.46-530(1)(g)]

Appendix A
Hazardous Waste Management Units
BGCAPP, RD&D Permit

Item	Name	Qty.	Process
1.	Container Handling Building (CHB)	1	Container Storage Area
2.	Unpack Area (UPA)	1	Container Storage Area
3.	Explosive Containment Vestibule (ECV)	1	Container Storage Area
4.	Explosive Containment Room (ECR)	2	Container Storage Area
5.	Toxic Maintenance Area	1	Container Storage Area
6.	Dunnage Storage Area	1	Container Storage Area
7.	MDB Residue Handling Area	2	Container Storage Area
8.	Spent Decon Storage	1	Container Storage Area
9.	Laboratory Waste Handling Area	1	Container Storage Area
10.	DSH Residue Handling Area	2	Container Storage Area
11.	Agent Collection/Toxic Storage Tanks	3	Storage in Tanks
12.	Spent Decon Storage	2	Storage in Tanks
13.	Hydrolysate Sampling Tanks	4	Storage in Tanks
14.	Brine Storage Tanks	2	Storage in Tanks
15.	Recovered/Process Water Storage Tanks	3	Storage in Tanks
16.	Hydrolysate Storage Tanks	9	Storage in Tanks
17.	Laboratory Chemical Waste Tank	1	Storage in Tanks
18.	Rocket Shear Machine (RSM)	2	Mechanical Processing
19.	Projectile/Mortar Disassembly System	1	Mechanical Processing
20.	Energetics Batch Hydrolyzer (EBH)	18	Miscellaneous Unit
21.	Heated Discharge Conveyor (HDC)	2	Thermal Unit
22.	Energetics Neutralization System	6	Treatment in Tanks
23.	Aluminum Removal System	1	Miscellaneous Unit
24.	Munitions Washout System (MWS)	3	Mechanical Processing
25.	Metal Parts Treater (MPT)	2	Miscellaneous Unit
26.	Nose Closure Removal System (NCRS)	2	Mechanical Processing
27.	Agent Neutralization System (ANS)	4	Treatment in Tanks
28.	Wood Shredder	1	Mechanical Processing
29.	Micronizer	1	Mechanical Processing
30.	Plastic shredder	1	Mechanical Processing
31.	Carbon Grinder	1	Mechanical Processing
32.	Hydropulper	1	Mechanical Processing
33.	Super Critical Water Oxidizer (SCWO)	8	Miscellaneous Unit
34.	Brine Concentrator	2	Miscellaneous Unit
35.	Water Recovery System	1	Thermal Unit

Appendix B
Compliance Schedule
BGCAPP, RD&D Permit

1. Submit to the Hazardous Waste Branch Manager, the **SCWO Technical Risk Reduction Project (TRRP) Report**.
   a. Demonstrate to the Cabinet that this is a proven technology.
   b. Submit within 30 days of final report completion.
   Based on the following regulations and statutes: 38:060 Section 6(1)(c), KRS 224.50-130(3).
2. Submit to the Hazardous Waste Branch Manager, **Process Information, Tank Systems**.
   a. Number, location, and types of all tanks (process and storage).
   b. Submit within 45 days of government acceptance of 60% design of individual systems (i.e. MDB, HSA, and SPB).
   Based on the following regulations: 38:060 Section 6(1)(c), 401 KAR 34:190, 401 KAR 38:160.
3. Submit to the Hazardous Waste Branch Manager, **Process Information, Process Flow and Piping and Instrumentation Drawings (P&ID)**.
   a. Submit the final design of each system (i.e. MDB, HSA, and SPB), no later than 24 months prior to receipt of hazardous waste.
   Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 38:090 Section 2.
4. Submit **Subpart X Certified Equipment Design Drawings**.
   a. Include the following equipment:
      i. Rocket Shear Machine (RSM)
      ii. Projectile/Mortar Disassembly System
      iii. Energetics Batch Hydrolyzer (EBH)
      iv. Heated Discharge Conveyor (HDC)
      v. Aluminum Removal System
      vi. Munitions Washout System (MWS)
      vii. Metal Parts Treater (MPT)
      viii. Nose Closure Removal System (NCRS)
      ix. Wood Shredder
      x. Micronizer
      xi. Plastic Shredder
      xii. Carbon Grinder
      xiii. Hydropulper
      xiv. Super Critical Water Oxidizer (SCWO)
      xv. Brine Concentrator
      xvi. Water Recovery System
   Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 38:230 Section 1
5. Submit to the Hazardous Waste Branch Manager, the **Process Information, Secondary Containment Systems**.

a. Include the following equipment or areas:
   i. MDB.
   ii. SCWO Building.
   iii. Brine Management.
   iv. HSA
   v. Other areas yet to be determined.

b. Submit no later than 45 days after government acceptance of final design of each area, but no later than 24 months prior to the receipt of hazardous waste.

Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:190 Section 4

6. Submit to the Hazardous Waste Branch Manager, the **Process Information, Container Storage Areas**.
   a. Include the following areas:
      i. Container Handling Building (CHB)
      ii. Unpack Area (UPA)
      iii. Explosive Containment Vestibule (ECV)
      iv. Explosive Containment Room (ECR)
      v. Toxic Maintenance Area
      vi. Dunnage Storage Area
      vii. MDB Residue Handling Area
      viii. Spent Decon Storage
      ix. Laboratory Waste Handling Area
      x. DSH Residue Handling Area

   b. Submit no later than 45 days after government acceptance of final design of each area, but no later than 24 months prior to receipt of hazardous waste.

   Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:180 Section 6(2)(a).

7. Develop a **Uniform Tank Assessment Report**
   a. To be used for all tanks.
   b. To be approved by the Cabinet
   c. Submit prior to the submission of the first Tank Assessment Report.

   Based on the following statute KRS 224.46-530(1)(g).

8. Submit to the Hazardous Waste Branch Manager, **Process Information, Tank Assessment Reports**.
   a. Include all tank systems (process and storage).
   b. Submit no later than 3 months prior to the required date to start construction of each tank system.
   c. Approval by the Cabinet prior to installation of each tank system (including foundations).

   Based on the following regulations: 38:060 Section 6(1)(c), 401 KAR 34:190 Section 3(1).

9. Notify the Hazardous Waste Branch Manager, of **Process Information, Tank Certification Reports**.
   a. Include all tank systems (process and storage).
   b. Notify as each report becomes available.
   Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:190 Section 3(2).
10. Submit to the Hazardous Waste Branch Manager, **Process Information, Containers**.
   a. Include containers not previously described in the BGAD, Chemical Storage Permit Application.
   b. Include secondary waste containers.
   c. Submit information no later than 36 months prior to receipt of hazardous waste.
   Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:180, 401 KAR 38:150.
11. Submit to the Hazardous Waste Branch Manager, **Process Information, Container Management.**
   a. Include the following areas:
      i. Container Handling Building (CHB)
      ii. Unpack Area (UPA).
      iii. Explosive Containment Vestibule (ECV).
      iv. Explosive Containment Room (ECR).
      v. Toxic Maintenance Area.
      vi. Dunnage Storage Area.
      vii. MDB Residue Handling Area.
      viii. Spent Decon Storage.
      ix. Laboratory Waste Handling Area.
      x. DSH Residue Handling Area.
      xi. Other areas yet to be determined.
   b. Submit information 36 months prior to receipt of hazardous waste.
   Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:020 Section 180
12. Submit to the Hazardous Waste Branch Manager, **Procedures to Prevent Hazards, Security**.
   a. Submit no later than 12 months prior to the receipt of hazardous waste.
   b. Approval required prior to receipt of hazardous waste.
   Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:020 Section 5.
13. Submit to the Hazardous Waste Branch Manager, a **Contingency Plan**.
   a. Submit no later than 12 months prior to the receipt of hazardous waste.
   b. Approval required prior to receipt of hazardous waste.
   Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:040.

14. Submit to the Hazardous Waste Branch Manager, **Process Information, Controls and Practices to Prevent Spills**.
    a. Submit no later than 18 months prior to the receipt of hazardous waste.
    b. Include tanks, reactors, evaporators, containers, etc.
    c. Approval required prior to receipt of hazardous waste.
    Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:190 Sections 5,6.
15. Submit to the Hazardous Waste Branch Manager, the **Personnel Training Plan**.
    a. Submit no later than 24 months prior to the receipt of hazardous waste.
    b. Approval required prior to receipt of hazardous waste.
    Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:020 Section 7.
16. Submit to the Hazardous Waste Branch Manager, the **Procedures to Prevent Hazards**.
    a. Include the criteria that will be used for modifying or suspending operations if expected emissions are exceeded.
    b. Submit no later than 12 months prior to the receipt of hazardous waste.
    c. Approval required prior to receipt of hazardous waste.
    Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:020 Section 5
17. Submit to the Hazardous Waste Branch Manager, the **Procedure to Prevent Hazards, Inspection Schedule**.
    a. Submit no later than 12 months prior to the receipt of hazardous waste.
    b. Approval required prior to receipt of hazardous waste.
    Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:020 Section 6.
18. Submit to the Hazardous Waste Branch Manager, the **Waste Analysis Plan**.
    a. Complete the development of analytical procedures, including QA/QC. Not to include the target release levels.
    b. Submit no later than 18 months prior to the receipt of hazardous waste.
    c. Approval required prior to receipt of hazardous waste.
    Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:020 Section 4.
19. Submit to the Hazardous Waste Branch Manager, **Agent Neutralization Reactor DE Test Plan**.
    a. Provide DE test plan for the 99.9999% DE in the Agent Neutralization Reactor.
    b. Submit 6 months prior to the receipt of hazardous waste.
    Based on the following regulation and statute: 401 KAR 38:060 Section 6(1)(c), KRS 224.50-130(3)(a).
20. Submit to the Hazardous Waste Branch Manager, **Agent Neutralization Reactor DE Test Results**.
    a. Provide DE test results for the 99.9999% DE in the Agent Neutralization Reactor.

b. Submit prior to releasing resulting agent hydrolysate from the MDB.
Based on the following regulation and statute: 401 KAR 38:060 Section 6(1)(c), KRS 224.50-130(3)(a).

21. Submit to the Hazardous Waste Branch Manager, the **Waste Analysis Plan, Target Release Levels**.
    a. Define all target release levels defined in the RD&D application, and other areas yet to be determined.
    b. Submit no later than 6 months prior to the receipt of hazardous waste.
    c. Approval required prior to receipt of hazardous waste.
    Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:020 Section 7.
22. Submit to the Hazardous Waste Branch Manager, **Subpart X Units, Performance Test Plans**.
    a. Provide performance test plan for each planned test for all Subpart X units, and others yet to be determined.
    b. Submit as soon as possible, but no later than 3 months prior to each test.
    Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 38:230 Section 1(5), 401 KAR 34:250(3).
23. Submit to the Hazardous Waste Branch Manager, **Subpart X Units, Performance Test Reports**.
    a. Provide performance test results for all Subpart X units
    b. Submit within 45 days of government acceptance of final test report
    Based on the following regulations: 401 KAR 38:060 Section 6(1)(c)38:060 Section 6(1)(c), 401 KAR 34:020 Section 7.
24. Submit to the Hazardous Waste Branch Manager, the **Facility Description, Traffic**.
    a. Certification that all roads can handle the traffic load.
    b. Submit no later than 6 months prior to transporting hazardous waste.
    c. Based on the following regulations: 401 KAR 38:060 Section 6(1)(c)38:060 Section 6(1)(c), 401 KAR 38:090 Section 2(10).
25. Submit to the Hazardous Waste Branch Manager, the **KY Emergency Management Approval**.
    a. Certification that there has been resolution of critical shortcomings in the Emergency Response Plan.
    b. Required prior to the receipt of hazardous waste.
    Based on the following regulation and statute: 401 KAR 38:060 Section 6(1)(c), KRS 224.50-130(3)(c).

26. Submit to the Hazardous Waste Branch Manager, the **Host Community Certification**.
    a. Provide a letter from the Madison County Judge Executive that infrastructure improvements identified in the Emergency Response Plan are complete, and that the Community Liaison position is filled.
    b. Required prior to the receipt of hazardous waste.
    Based on the following regulation and statute: 401 KAR 38:060 Section 6(1)(c), KRS 224.50-130(7)(a).
27. Submit to the Hazardous Waste Branch Manager, the **Secondary Waste Disposal Certification**.
    a. Provide certification that a facility has been identified, and has agreed to accept each of the secondary wastes generated.
    b. Required prior to the receipt of hazardous waste.
    Based on the following regulation and statute: 401 KAR 38:060 Section 6(1)(c).
28. Submit to the Hazardous Waste Branch Manager, the **Closure Plan**.
    a. Provide a detailed Closure Plan.
    b. Submit no later than receipt of hazardous waste.
    c. Approval required prior to beginning closure activities.
    Based on the following regulations: 401 KAR 38:060 Section 6(1)(c), 401 KAR 34:070
29. Submit to the Hazardous Waste Branch Manager, a Facility Risk Assessment.
    a. Use KDEP approved risk assessment protocol
    b. Approval required prior to agent operations
    Based on the following regulations: 401 KAR 38:060 Section 6(1)(c)

Appendix C
Permitted Capacities
BGCAPP, RD&D Permit

1.	Container Handling Building (CHB)	6,500.00	gallons
2.	Unpack Area (UPA)	1,000.00	gallons
3.	Explosive Containment Vestibule (ECV)	600.00	gallons
4.	Explosive Containment Room (ECR)	30.00	gallons
5.	Toxic Maintenance Area	5,500.00	gallons
6.	Dunnage Storage Area	24,000.00	gallons
7.	MDB Residue Handling Area	24,000.00	gallons
8.	Spent Decon Storage	500.00	gallons
9.	Laboratory Waste Handling Area	2,200.00	gallons
10.	DSH Residue Handling Area	5,500.00	gallons
11.	Agent Collection/Toxic Storage Tanks	3,600.00	gallons
12.	Spent Decon Storage	20,000.00	gallons
13.	Hydrolysate Sampling Tanks	160,000.00	gallons
14.	Brine Storage Tanks	152,000.00	gallons
15.	Recovered/Process Water Storage Tanks	228,000.00	gallons
16.	Hydrolysate Storage Tanks	3,210,000.00	gallons
17.	Laboratory Chemical Waste Tank	1,600.00	gallons
18.	Rocket Shear Machine (RSM)	1,661.00	pounds/hour
19.	Projectile/Mortar Disassembly System	315.00	pounds/hour
20.	Energetics Batch Hydrolyzer (EBH)	846.00	gallons/hour
21.	Heated Discharge Conveyor (HDC)	1,485.00	pounds/hour
22.	Energetics Neutralization System	3,200.00	gallons/hour
23.	Aluminum Removal System	20,000.00	pounds/hour
24.	Munitions Washout System (MWS)	871.00	pounds/hour
25.	Metal Parts Treater (MPT)	6,998.00	pounds/hour
26.	Nose Closure Removal System (NCRS)	581.00	pounds/hour
27.	Agent Neutralization System (ANS)	321.00	pounds/hour
28.	Wood Shredder	340.00	pounds/hour
29.	Micronizer	340.00	pounds/hour
30.	Plastic shredder	7.50	pounds/hour
31.	Carbon Grinder	160.00	pounds/hour
32.	Hydropulper	4,200.00	gallons/hour
33.	Super Critical Water Oxidizer (SCWO)	8,000.00	pounds/hour
34.	Brine Concentrator	3,000.00	gallons/hour
35.	Water Recovery System	21,600.00	gallons/day

Appendix D
Hazardous Waste Management Units
Subject to Air Emission Standards
BGCAPP, RD&D Permit

Reserved For Future Use

Appendix E
Air Emission Standards, Subpart AA Conditions
BGCAPP, RD&D Permit

Reserved for Future Use

Appendix F
Air Emission Standards, Subpart BB Conditions
BGCAPP, RD&D Permit

Reserved for Future Use

Reserved for Future Use