

**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

**MISSOURI AIR CONSERVATION COMMISSION**

**PERMIT TO CONSTRUCT**

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: **082016-007**

Project Number: 2016-06-035  
Installation Number: 095-0046

Parent Company: U.S. Government- Army

Parent Company Address: P.O. Box 1000, Independence, MO 64051

Installation Name: Alliant Techsystem Operations, LLC - Lake City Army  
Ammunition Plant

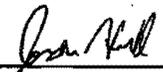
Installation Address: 35301 East 78 Highway, Independence, MO 64056

Location Information: Jackson County, S31/32, T50N, R30W

Application for Authority to Construct was made for:  
Adding one 50 Caliber Crate Printer. This review was conducted in accordance with  
Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

Standard Conditions (on reverse) are applicable to this permit.

Standard Conditions (on reverse) and Special Conditions are applicable to  
this permit.

  
Prepared by  
Jordan Hull  
New Source Review Unit

  
Director or Designee  
Department of Natural Resources

**AUG 22 2016**

Effective Date

STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Enforcement and Compliance Section of the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Enforcement and Compliance Section of the Department's Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available within 30 days of actual startup. Also, you must notify the Department's regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of the permit application and this permit and permit review shall be kept at the installation address and shall be made available to Department's personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant source(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit using the contact information below.

Contact Information:  
Missouri Department of Natural Resources  
Air Pollution Control Program  
P.O. Box 176  
Jefferson City, MO 65102-0176  
(573) 751-4817

The regional office information can be found at the following website:  
<http://dnr.mo.gov/regions/>

**SPECIAL CONDITIONS:**

The permittee is authorized to construct and operate subject to the following special conditions:

*The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority."*

Alliant Techsystem Operation, LLC. - Lake City Army Ammunition Plant  
Jackson County, S31/32, T50N, R30W

1. Superseding Condition
  - A. The conditions of this permit supersede all special conditions found in the previously issued construction permit 052016-002 issued by the Air Pollution Control Program.
2. VOC Emission Limitation
  - A. Alliant Techsystem Operation LLC. Lake City Army Ammunition Plant shall emit less than 40.0 tons of VOCs in any consecutive 12-month period from all equipment in Phases I-V of this project (see table below)

Table 1 Project (Phases I-V) Emission Units

Emission Point	Description
EP-13F, -13G & -15G	All Phase I Emission Units
EP-20G, -20H, -34E & -34F	All Phase II Emission Units
EP-20G	All Phase III Emission Units
EP-15G,-16A,-16B,-19C,-54	All Phase IV Emission Units
EP-13H	Phase V: 50Cal Crate Printer Ink
EP-13H	Phase V: 50Cal Crate Printer Make-up Solution/Solvent

- B. Attachment A or an equivalent form, such as an electronic form, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Condition 2.A.
3. Record Keeping and Reporting Requirements
  - A. Alliant Techsystem Operation LLC. Lake City Army Ammunition Plant shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. These records shall include SDS for all materials used.

**SPECIAL CONDITIONS:**

The permittee is authorized to construct and operate subject to the following special conditions:

- B. Alliant Techsystem Operation LLC. Lake City Army Ammunition Plant shall report to the Air Pollution Control Program's Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after the end of the month during which any record required by this permit shows an exceedance of a limitation imposed by this permit.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE  
SECTION (5) REVIEW

Project Number: 2016-06-035  
Installation ID Number: 095-0046  
Permit Number:

Installation Address:

Alliant Techsystem Operation LLC. Lake  
City Army Ammunition Plant  
35301 East 78 Highway  
Independence, MO 64051  
Jackson County (S31/32, T50N, R30W)

Parent Company:

U.S. Government- Army  
P.O. Box 1000  
Independence, MO 64051

REVIEW SUMMARY

- Alliant Techsystem Operation LLC. Lake City Army Ammunition Plant has applied for authority to install one 50 caliber ammunition crate printer.
- The application was deemed complete on July 1, 2016.
- HAP emissions are not expected from the proposed equipment. MSDS/SDS provided by the company verified that there are no HAPs in the ink/solvent.
- None of the NSPS, NESHAPs, or currently promulgated MACT regulations apply to the proposed equipment. 40 CFR Part 63, Subpart M – *National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products* does not apply to the facility because it is owned by the Army.
- No air pollution control equipment is being used in association with the new equipment of Phase V.
- This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of VOCs are conditioned below de minimis levels.
- This installation is located in Jackson County, a maintenance area for ozone and an attainment area for all other criteria pollutants.
- This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation's major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.
- Ambient air quality modeling was not performed since potential emissions of the application are below de minimis levels.

- Emissions testing is not required for the equipment.
- Submittal of an amendment to your Part 70 Operating Permit is required within 1 year of equipment startup.
- Approval of this permit is recommended with special conditions.

## INSTALLATION DESCRIPTION

Alliant Techsystems Operations LLC operates a small arms ammunition manufacturing facility (Lake City Ammunition Plant) in Independence, MO. The installation is an existing major source under construction permits for SO<sub>x</sub>, NO<sub>x</sub>, VOC, and HAP. The installation is currently operating under Part 70 operating permit OP2014-009 which expires July 9, 2019.

The following New Source Review permits have been issued to Alliant Techsystem Operation LLC. Lake City Army Ammunition Plant (or to private entities which have now been assumed by this installation) from the Air Pollution Control Program.

Table 2: Permit History

Permit Number	Description
1088-009A	Install three new painting/sealing systems and two air strippers
0690-009	Install a trinitroresorcinol (TNR) manufacturing building
0690-003	Install an explosive wastewater treatment plant to remove metals
0191-004	Install four air strippers that will strip VOC from drinking water
0492-002	Install emergency diesel pump for boiler feed and 20 emergency generators
1192-018	Install a natural gas fired generator unit
0694-021	Install a primer popping operation
0395-027	Install nine standby emergency diesel generators
1095-022	Install three video-jet printers for 20-mm case marking. This equipment replaced the ink-pad and rubber-stamping method
0496-018	Install three ink jet equipment for 5.56 mm packing cartons. This equipment replaced the existing rubber-stamp operation
1097-018	Modify existing process to manufacture I-136N igniter mix by eliminating calcium resinate and replacing it with a polyurethane formula
0199-021	Install emergency diesel booster pump and fuel storage tank
012000-017	Install three ammunition loading machines and one ammunition priming machine. Replaced four WWII machines
092000-002	Install calcium resinate system for manufacturing
112000-008	Install two 16.8 MMBtu/hr steam generating boilers
042001-003	Install machine gun belt link manufacturing equipment. Permit has been relinquished to Lake City Ammo by Galion, Inc
052001-012	Install two 12.1 MMBtu/hr natural gas fired steam generating boilers
082001-016	Install one 45-ton press, one 75-ton press and one resistance welding station to an existing machine gun belt link manufacturing operation. Permit has been relinquished to Lake City Ammo by Valentec Wells, LLC (formerly Galion, Inc.)

102001-006	Install two 150-ton presses and one 100-ton press to an existing machine gun belt link manufacturing operation
112001-009A	Install two 30-ton presses and one 60 ton press to an existing machine gun belt link manufacturing operation
012003-008	Two Manuhrin loaders for the combat cartridge tip identification and cartridge sealing operation (EP-14 and EP-15, respectively)
032005-012	Installation of one 33.5 MMBtu/hr boiler
112008-012	Installation of eight new priming machines and five new loading machines, including one Manurhin loading machine. (Phase I)
122008-007	Installation of six new draw presses, three new wash and dry lines, two new pickle/wash/lube lines, and eight new back end case cells. (Phase II)
062009-004	Installation of five ammunition can printing lines and four new crate printing lines. (Phase III)
022010-008	Installation of three first draw presses, two natural gas fueled anneal ovens, two pickle trains, three second draw presses, three final wash lines, and five back end case cells. (Phase IV) Also includes amendment to Phase II by installing equipment for manufacturing 7.62 mm shell casings.
042010-005	Temporary concrete crusher.
042010-005A	Correcting responsible party.
112008-012A	Transfer efficiency.
112008-012B	Change the formulation for the mouth water proofing compound.
022011-010	Temporary permit for a Thermal Convection System (TCS).
022011-010A	Amendment to the temporary permit to allow the treatment of additional equipment by the TCS.
012013-009	Use of new lube, wash additives, and brass brighteners for five high speed case manufacturing lines.
062013-007	Increasing the usage and changing the formulation of the mouth water proofing compound
102013-006	Installation of natural gas burners on existing Boilers #5 and #6
032015-020	Installation of a quench bath and replace existing furnaces associated with the installation's existing machine gun belt links operations.
082015-006	Installation of one 7.62mm and 50 caliber ammunition can printer and one 7.62mm and 50 caliber ammunition crate printer. (Phase I)
092015-007	Installation of two new annealing furnaces and pickling wash lines (Phase II)
122015-011	Installation of four draw presses, one annealing furnace, and a pickle train washing system (Phase III)
052016-002	Installation of six primer manufacturing lines (Phase IV)

## PROJECT DESCRIPTION

This project is the fifth phase of a number of projects that have been submitted by Alliant Techsystems Operations, LLC. This project's emissions will be added to the emissions from the previous four phases' construction permits. Phase I was the installation of a can printer and a crate printer for each of the 7.62mm and 50 caliber ammunition lines (Construction Permit 082015-006). Phase II was the installation of two new annealing furnaces and pickling wash lines (Construction Permit 092015-007).

Phase III was the installation of four draw presses, an annealing furnace, and a pickling train wash system with a dryer (Construction Permit 122015-011). Phase IV was the installation of six primer manufacturing lines (Construction Permit 052016-002). Because this project is part of a phased project, the phased project's total potential emissions include the potential emissions from the first four phases, as well as the potential emissions of this project.

Currently Phase V equipment will replace the current printing of ammunition that occurs at LCAAP. Completed ammunition is packed into various configurations for field use depending upon the weapons system utilizing the round. For storage, shipping and Department of Defense specifications, the ammunition must be packed in metal ammunition cans and then two cans are placed into one wooden crate. Each ammunition crate must contain information such as product type, pack configuration, and lot numbers.

Phase V Project Description:

Lake City Army Ammunition Plant proposes the addition of one Leibinger Jet 3 ammunition crate printer with two print heads and the ability to print 50 caliber wooden crates being used in Building 3 packing area. This is the second printer being installed in Building 3. The design of the system is one conveyor line, two robotic print arms each with one print head. Only one crate will be printed at a time; one robotic arm will print the sides and the other will print the top. Only one size of crate will be printed at a time.

The printer will use ink and make-up solution to print on the crates. Ink usage information is based upon manufacturer projected usage quantities based upon the size of characters and number of characters that will be printed on each configuration.

Due to the lack of information for the make-up solution usage, LCAAP has reviewed usage of the current can printer in Building 3 which uses a two part printing solution. In calendar year 2014, 3.7 times more make-up solution was used than ink. As a worst case scenario, calculations of 3.7 times more make-up solution than ink were used for this application for both can and crate printing at maximum hourly design rate volumes.

The Crate Printer has a maximum application rate of 0.0008 L/min. According to the manufacturer, printing only occurs 32 out of every 60 seconds. The remaining time the printer is spent indexing. This means the maximum amount of ink that can be printed is 0.000427 Liter(L)/min or 0.0256 L/hr. Accounting for the two print heads this makes the maximum amount of ink used equal 0.00512 L/hr.

Table 3: Project Equipment list

Emission Unit	Description	Project Status	MHDR
EP-13H	50Cal Crate Printer Ink	New	0.0135 gal/hr
EP-13H	50Cal Crate Printer Make-up Solution/Solvent	New	0.0050 gal/hr

## EMISSIONS/CONTROLS EVALUATION

The emissions from the ink and solvent were determined by using mass balance. Density and VOC content of each product were attained from the individual MSDS/SDS that were provided by the applicant. It was assumed that 100% of the VOC content would be emitted.

The following table provides an emissions summary for this project. Existing actual emissions were taken from the installation's 2014 EIQ. Existing Potential Emissions were taken from the installations previous construction permit (032015-020). Potential emissions of the Project represent the potential of the new printer addition, assuming continuous operation (8760 hours per year).

Table 4: Emissions Summary (tons per year)

Pollutant	Regulatory <i>De Minimis</i> Levels	Existing Potential Emissions <sup>1</sup>	Existing Actual Emissions (2014 EIQ)	Potential Emissions of Phases I- IV	Potential Emissions of the Project	Conditioned Emissions of Phases I- V
PM	25.0	N/D	N/A	0.08	N/A	0.08
PM <sub>10</sub>	15.0	83.82	7.62	0.29	N/A	0.29
PM <sub>2.5</sub>	10.0	N/D	7.57	0.29	N/A	0.29
SO <sub>x</sub>	40.0	1,780.66	1.12	0.02	N/A	0.02
NO <sub>x</sub>	40.0	370.73	44.02	3.74	N/A	3.74
VOC	40.0	1,462.53	91.51	85.15	0.34	<40.0
CO	100.0	168.94	29.54	3.14	N/A	3.14
Lead Compounds	10.0/01	N/D	N/D	0.001	N/A	0.001
Methanol	10.0/10	N/D	N/D	0.37	N/A	0.37
MIBK	10.0/10	N/D	N/D	0.02	N/A	0.02
GHG (CO <sub>2</sub> e)	75,000 / 100,000	N/D	N/A	N/A	N/A	N/D
GHG (mass)	0.0 / 100.0 / 250.0	N/D	N/A	N/A	N/A	N/D
HAPs	10.0/25.0	272.27	0.0196	0.89	N/A	0.89
Sulfuric Acid Mist	7.0	N/A	N/D	0.012	N/A	0.012

N/A = Not Applicable; N/D = Not Determined

<sup>1</sup>Existing Emissions as stated in Permit # 032015-020

## PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of VOCs are conditioned below de minimis levels.

## APPLICABLE REQUIREMENTS

Alliant Techsystem Operation LLC. Lake City Army Ammunition Plant shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved. For a complete list of applicable requirements for your installation, please consult your operating permit.

## GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110*
  - Per 10 CSR 10-6.110(4)(B)2.B(II) and (4)(B)2.C(II) a full EIQ is required for the first full calendar year the equipment (or modifications) approved by this permit are in operation.
- *Operating Permits, 10 CSR 10-6.065*
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin, 10 CSR 10-6.170*
- *Restriction of Emission of Visible Air Contaminants, 10 CSR 10-6.220*
- *Restriction of Emission of Odors, 10 CSR 10-6.165*

## SPECIFIC REQUIREMENTS

- *Control of Emissions from Industrial Surface Coating Operations, 10 CSR 10-2.230 does not apply to the facility because facility operations do not constitute "industrial surface coating operations," and none of the compounds used meet the definitions of "coating" or "sealer" as defined in 10 CSR 10-6.020*

## STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, it is recommended that this permit be granted without special conditions.

## PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated June 9, 2016, received June 15, 2016, designating U.S. Government – Army as the owner and operator of the installation.

## Attachment A – VOC Compliance Worksheet (Phase I-V)

Alliant Techsystems Operations, LLC – Lake City Army Ammunition Plant  
 Jackson County (S31/32, T50N, R30W)  
 Project Number: 2016-06-035  
 Installation ID Number: 095-0046  
 Permit Number:

This sheet covers the month of \_\_\_\_\_ in the year \_\_\_\_\_.

Chemical	<sup>1</sup> Amount of Chemical Used (gal)	<sup>2</sup> VOC Content (lb/gal)	<sup>3</sup> Amount of VOCs Consumed (tons)	<sup>4</sup> Amount of VOCs Disposed (tons)	<sup>5</sup> Phase I Monthly Emissions (tons)	Phase II&III Monthly Emissions (tons)	<sup>5</sup> Phase IV Monthly Emissions (tons)	<sup>5</sup> Phase V Monthly Emissions (tons)	<sup>6</sup> Individual Monthly Emissions (tons)
(Ex.) PSM24	205	6.06	0.621	0.170	.0175	.0175	0.451	.0093	0.496
						.0175			
						.0175			
						.0175			
						.0175			
						.0175			
						.0175			
<b><sup>7</sup>Total Monthly Emissions (tons)</b>									
<b><sup>8</sup>Previous 11 Months' Total Emissions (tons)</b>									
<b><sup>9</sup>Current 12-Month Total Emissions (tons)</b>									

<sup>1</sup> Enter the total amount of each VOC-containing chemical used in any of the older can/crate printer(Phase 1), the six primer manufacturing lines(Phase IV), or the new can/crate printer (Phase V), in the given month.

<sup>2</sup> Enter the VOC content of each chemical, taken from the respective SDS sheet

<sup>3</sup> Multiply the Amount of Chemical Used (gal) by the VOC Content (lb/gal) and divide by 2,000

<sup>4</sup> Enter the total amount of VOCs from waste solvent collected and disposed for each chemical

<sup>5</sup> Subtract the Amount of VOCs Disposed (tons) from the Amount of VOCs Consumed (tons) for each phase (I,IV,and V) and place calculated value in appropriate column

<sup>6</sup> Add all Phases (I, II&III, IV, and V) Monthly Emissions (tons) to get a sum of VOCs for the month

<sup>7</sup> Add the Individual Monthly Emissions (tons) for all chemicals

<sup>8</sup> Enter the sum of the Total Monthly Emissions (tons) for the previous 11 months

<sup>9</sup> Add the Total Monthly Emissions (tons) to the Previous 11 Months' Total Emissions (tons)

A Current 12-Month Total Emissions (tons) of less than **40.0** is necessary for compliance

## APPENDIX A

### Abbreviations and Acronyms

<b>%</b> .....	percent	<b>m/s</b> .....	meters per second
<b>°F</b> .....	degrees Fahrenheit	<b>Mgal</b> .....	1,000 gallons
<b>acfm</b> .....	actual cubic feet per minute	<b>MW</b> .....	megawatt
<b>BACT</b> .....	Best Available Control Technology	<b>MHDR</b> .....	maximum hourly design rate
<b>BMPs</b> .....	Best Management Practices	<b>MMBtu</b> ....	Million British thermal units
<b>Btu</b> .....	British thermal unit	<b>MMCF</b> .....	million cubic feet
<b>CAM</b> .....	Compliance Assurance Monitoring	<b>MSDS</b> .....	Material Safety Data Sheet
<b>CAS</b> .....	Chemical Abstracts Service	<b>NAAQS</b> ...	National Ambient Air Quality Standards
<b>CEMS</b> .....	Continuous Emission Monitor System	<b>NESHAPs</b>	National Emissions Standards for Hazardous Air Pollutants
<b>CFR</b> .....	Code of Federal Regulations	<b>NO<sub>x</sub></b> .....	nitrogen oxides
<b>CO</b> .....	carbon monoxide	<b>NSPS</b> .....	New Source Performance Standards
<b>CO<sub>2</sub></b> .....	carbon dioxide	<b>NSR</b> .....	New Source Review
<b>CO<sub>2e</sub></b> .....	carbon dioxide equivalent	<b>PM</b> .....	particulate matter
<b>COMS</b> .....	Continuous Opacity Monitoring System	<b>PM<sub>2.5</sub></b> .....	particulate matter less than 2.5 microns in aerodynamic diameter
<b>CSR</b> .....	Code of State Regulations	<b>PM<sub>10</sub></b> .....	particulate matter less than 10 microns in aerodynamic diameter
<b>dscf</b> .....	dry standard cubic feet	<b>ppm</b> .....	parts per million
<b>EQ</b> .....	Emission Inventory Questionnaire	<b>PSD</b> .....	Prevention of Significant Deterioration
<b>EP</b> .....	Emission Point	<b>PTE</b> .....	potential to emit
<b>EPA</b> .....	Environmental Protection Agency	<b>RACT</b> .....	Reasonable Available Control Technology
<b>EU</b> .....	Emission Unit	<b>RAL</b> .....	Risk Assessment Level
<b>fps</b> .....	feet per second	<b>SCC</b> .....	Source Classification Code
<b>ft</b> .....	feet	<b>scfm</b> .....	standard cubic feet per minute
<b>GACT</b> .....	Generally Available Control Technology	<b>SDS</b> .....	Safety Data Sheet
<b>GHG</b> .....	Greenhouse Gas	<b>SIC</b> .....	Standard Industrial Classification
<b>gpm</b> .....	gallons per minute	<b>SIP</b> .....	State Implementation Plan
<b>gr</b> .....	grains	<b>SMAL</b> .....	Screening Model Action Levels
<b>GWP</b> .....	Global Warming Potential	<b>SO<sub>x</sub></b> .....	sulfur oxides
<b>HAP</b> .....	Hazardous Air Pollutant	<b>SO<sub>2</sub></b> .....	sulfur dioxide
<b>hr</b> .....	hour	<b>tph</b> .....	tons per hour
<b>hp</b> .....	horsepower	<b>tpy</b> .....	tons per year
<b>lb</b> .....	pound	<b>VMT</b> .....	vehicle miles traveled
<b>lbs/hr</b> .....	pounds per hour	<b>VOC</b> .....	Volatile Organic Compound
<b>MACT</b> .....	Maximum Achievable Control Technology		
<b>µg/m<sup>3</sup></b> .....	micrograms per cubic meter		

Ms. Tonya Aggson  
Environmental Engineer  
Alliant Techsystem Operation LLC. Lake City Army Ammunition Plant  
35301 East 78 Highway, PO Box 1000  
Independence, MO 64056

RE: New Source Review Permit - Project Number: 2016-06-035

Dear Ms. Aggson:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions, your new source review permit application and with your amended operating permit is necessary for continued compliance. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at the following website: <http://dnr.mo.gov/regions/>. The online CAV request can be found at <http://dnr.mo.gov/cav/compliance.htm>.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is

Ms. Tonya Aggson  
Page Two

received by the administrative hearing commission, whose contact information is: Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: [www.ao.mo.gov/ahc](http://www.ao.mo.gov/ahc).

If you have any questions regarding this permit, please do not hesitate to contact Jordan Hull, at the Department of Natural Resources' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 522-2581. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Susan Heckenkamp  
New Source Review Unit Chief

SH:jhj

Enclosures

c: Kansas City Regional Office  
PAMS File: 2016-06-035

Permit Number: