STATEMENT OF BASIS

For the issuance of Air Permit # 1865-AOP-R10 AFIN: 07-00033

1. PERMITTING AUTHORITY:

Division of Environmental Quality 5301 Northshore Drive North Little Rock, Arkansas 72118-5317

2. APPLICANT:

Armtec Countermeasures Co. Highland Industrial Park, Building M-7 East Camden, Arkansas 71701

3. PERMIT WRITER:

Sarah Neoh

4. NAICS DESCRIPTION AND CODE:

NAICS Description: All Other Miscellaneous Chemical Product and Preparation

Manufacturing

NAICS Code: 325998

5. ALL SUBMITTALS:

The following is a list of ALL permit applications included in this permit revision.

Date of Application	Type of Application	Short Description of Any Changes
	(New, Renewal, Modification,	That Would Be Considered New or
	Deminimis/Minor Mod, or	Modified Emissions
	Administrative Amendment)	
10/27/2021	Renewal	Scenario SN-03B is now active. This
		renewal does not affect permitted
		emissions.

6. REVIEWER'S NOTES:

Armtec Countermeasures Company (Armtec) is located at Building M-25 in the Highland Industrial Park, East Camden, Calhoun County, Arkansas. Armtec manufactures and tests explosive ordnance and disposes of explosive/pyrotechnic waste in open thermal treatment units. This renewal confirms scenario SN-03B as active. The annual emissions are not affected by this renewal.

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7. COMPLIANCE STATUS:

The following summarizes the current compliance of the facility including active/pending enforcement actions and recent compliance activities and issues.

The facility was last inspected on January 9, 2018. An emergency generator that was not in the permit was noted at this time and has been added to the permit during R9.

8. PSD/GHG APPLICABILITY:

- a) Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? N If yes, were GHG emission increases significant? N/A
- b) Is the facility categorized as a major source for PSD? N
- Single pollutant ≥ 100 tpy and on the list of 28 or single pollutant ≥ 250 tpy and not on list

If yes for 8(b), explain why this permit modification is not PSD.

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
05	HAPs	NESHAP JJJJ

10. UNCONSTRUCTED SOURCES:

Unconstructed Source	Permit	Extension	Extension	If Greater than 18 Months without
	Approval	Requested	Approval	Approval, List Reason for Continued
	Date	Date	Date	Inclusion in Permit
			N/A	

11. PERMIT SHIELD – TITLE V PERMITS ONLY:

Did the facility request a permit shield in this application? N (Note - permit shields are not allowed to be added, but existing ones can remain, for minor modification applications or any Regulation 18 requirement.)

12. COMPLIANCE ASSURANCE MONITORING (CAM) – TITLE V PERMITS ONLY:

List sources potentially subject to CAM because they use a control device to achieve compliance and have pre-control emissions of at least 100 percent of the major source level. List the pollutant of concern and a brief summary of the CAM plan (temperature monitoring, CEMs, opacity monitoring, etc.) and frequency requirements of § 64.

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Source	Pollutant Controlled	Cite Exemption or CAM Plan Monitoring and Frequency
		N/A

13. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

14. AMBIENT AIR EVALUATIONS:

The following are results for ambient air evaluations or modeling.

a) NAAQS

A NAAQS evaluation is not required under the Arkansas State Implementation Plan, National Ambient Air Quality Standards, Infrastructure SIPs and NAAQS SIP per Ark. Code Ann. § 8-4-318, dated March 2017 and the DEQ Air Permit Screening Modeling Instructions.

b) Non-Criteria Pollutants:

Based on Division of Environmental Quality procedures for review of non-criteria pollutants, emissions of non-criteria pollutants are below thresholds of concern.

c) H₂S Modeling:

A.C.A. §8-3-103 requires hydrogen sulfide emissions to meet specific ambient standards. Many sources are exempt from this regulation, refer to the Arkansas Code for details.

Is the facility exempt from the H₂S Standards Y

If exempt, explain: No H₂S present

Pollutant	Threshold value	Modeled Concentration (ppb)	Pass?
	20 parts per million (5-minute average*)	0	Y
H_2S	80 parts per billion (8-hour average) residential area	0	Y
	100 parts per billion (8-hour average) nonresidential area	0	Y

^{*}To determine the 5-minute average use the following equation

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 $Cp = Cm (t_m/t_p)^{0.2}$ where

Cp = 5-minute average concentration Cm = 1-hour average concentration

 $t_m = 60 \text{ minutes}$ $t_p = 5 \text{ minutes}$

15. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
01	Mass Balance	450,000 lb VOC/year			Annual limits based on production rates. Hourly limits based on 4,000 hour /year operation
02		lb/lb explosive wt NOx: 4.34E- 04			Synthetic limitation of 40,000 lb/yr explosive material testing. Total maximum hourly testing rate is 90 lb/hr
03	AP-42 Table 15.8.16-1 (7/2009) AP-42 Table 15.8.16-2	CO: 4.20E- 03 VOC: 1.30E-03 PM: 2.80E-			Scenario A: Synthetic limitation of 500 lb/day and 130,000 lb/yr explosive material (Removed as of R10)
03	(7/2009)	02 PM ₁₀ : 2.00E-02 SO ₂ : 2.60E- 02			Scenario B: Synthetic limitation of 1,000 lb/day and 192,000 lb/yr explosive material
04	AP-42 Tables 1.4-1 and 1.4-2	lb/MMscf NOx:100 CO: 84 VOC: 11 PM/PM ₁₀ : 7.6 SO ₂ :0.6			Group of boilers with a total natural gas heat input of 40 MMBtu/hr

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16. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
		N/A		

17. MONITORING OR CEMS:

The permittee must monitor the following parameters with CEMS or other monitoring equipment (temperature, pressure differential, etc.)

SN	Parameter or Pollutant to be Monitored	Method (CEM, Pressure Gauge, etc.)	Frequency	Report (Y/N)
SN-05	Operation time	Timer	Monthly	N

18. RECORDKEEPING REQUIREMENTS:

The following are items (such as throughput, fuel usage, VOC content, etc.) that must be tracked and recorded.

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
01	VOC Purchased	225 tpy	Monthly	Y
01	Acetone Purchased	350 tpy	Monthly	Y
02	Amount of Ordinance tested	40,000 lb/year	Monthly	Y
03	Amount of Waste Burned	1,000 lb/day	Daily	Y
03	Amount of Waste Burned	192,000 lb/year	Monthly	Y
04	Natural Gas Throughput	40.0 MMBtu/hr	Upon change of equipment	N
05	Operation Time	500 hrs/yr	Monthly	N

19. OPACITY:

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SN	Opacity	Justification for limit	Compliance Mechanism
02	No Limit	Waiver from Opacity limits of Reg. 19 granted by July 17, 2002 letter from ADEQ Director	N/A
03	No Limit		N/A
04	5%	Department Guidance	Daily Observation

20. DELETED CONDITIONS:

Former SC	Justification for removal
	N/A

21. GROUP A INSIGNIFICANT ACTIVITIES:

The following is a list of Insignificant Activities including revisions by this permit.

Courac	Croup A	Emissions (tpy)						
Source Name	Group A Category	PM/PM ₁₀	SO_2	VOC	CO	NO_x	HA	Ps
Name	Category	P1V1/P1V1 ₁₀	SO_2	VOC	CO	NO_X	Single	Total
Misc. Coatings, Adhesives, and Inks Usage	13			0.5				0.07

22. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

The following is a list of all active permits voided/superseded/subsumed by the issuance of this permit.

Permit #
1865-AOP-R9



Armtec Countermeasures Co. Permit Number: 1865-AOP-R10

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\$/ton factor	25.13	Annual Chargeable Emissions (tpy)	609.93
Permit Type	Renewal No Changes	Permit Fee \$	0
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Minor Modification Fee \$	500		
Minimum Modification Fee \$	1000		
Renewal with Minor Modification \$	500		
Check if Facility Holds an Active Minor Source or Minor			
Source General Permit			
If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$	0		
Total Permit Fee Chargeable Emissions (tpy)	0		
Initial Title V Permit Fee Chargeable Emissions (tpy)			

HAPs not included in VOC or PM:

Chlorine, Hydrazine, HCl, HF, Methyl Chloroform, Methylene Chloride, Phosphine, Tetrachloroethylene, Titanium Tetrachloride

Air Contaminants:

All air contaminants are chargeable unless they are included in other totals (e.g., H2SO4 in condensible PM, H2S in TRS, etc.)

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
PM		4.7	4.7	0	0	4.7
PM_{10}		3.8	3.8	0		
PM _{2.5}		0	0	0		
SO_2		0.4	0.4	0	0	0.4
VOC		227.3	227.3	0	0	227.3
СО		15.4	15.4	0		
NO_X		17.6	17.6	0	0	17.6
Total HAPs	~	9.93	9.93	0	0	9.93

Pollutant	(tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Chargeable
cetone		~	350	350	0	0	350