# **Subpart V - Inputs Form**

# **Subpart V Inputs Form**

Please see Reporting Form Instructions on downloading the blank inputs form and uploading the completed inputs form.

The equation inputs for Subpart V are listed below. Enter the inputs on the appropriate tab(s) in the inputs form and save the file to your computer.

#### Subpart V - Nitric Acid Train Inputs

Fill out the nitric acid train inputs table.

- Facility NameGHGRP ID
- Reporting Period
- Comments (optional)
  Nitric Acid Train ID from Reporting Form
- Annual nitric acid produced from nitric acid train (tons acid produced, 100% acid basis)
- Equations used to calculate emissions for the production unit

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Subpart V - Nitric Acid Productio	en .	
Facility Name:		
GHGRP ID:		
Reporting Period:		
Comments: (optional)		
Nitric Acid Train ID from Reporting Form	Annual nitric acid produced from nitric acid train (tons acid produced, 100% acid basis)	Select which of the following equations are used to calculate emissions for this production unit

Subpart V - Nitric Acid Production		
Facility Name:		
GHGRP ID:		
Reporting Period:		
Comments: (optional)		
Nitric Acid Train ID from Reporting Form	Annual nitric acid produced from nitric acid train (tons acid produced, 100% acid basis)	Select which of the following equations are used to calculate emissions for this production unit

#### Subpart V - Equation V-1 Inputs

Fill out the Equation V-1 inputs table.

- Train Level Inputs
  - Nitric Acid Train ID
  - O Number of test runs
  - o Average facility-specific N<sub>2</sub>O emissions factor for the unit (lb N<sub>2</sub>O generated/per ton nitric acid produced, 100 percent acid basis)
- Test Run Inputs
  - Nitric Acid Train ID
  - o Test Run Number
  - $^{\circ}~{\rm N_2O}$  concentration per test run during the performance test (ppm  ${\rm N_2O})$
  - ° Volumetric flow rate of effluent gas per test run during the performance test (dscf/hr)
  - Production rate per test run during the performance test (ton nitric acid produced per hour, 100 percent acid basis)
     N<sub>2</sub>O emission factor (lb N<sub>2</sub>O generated/ton nitric acid produced, 100 percent acid basis)

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Train Level Inputs					
Nitric Acid Train ID	Number of test runs	Average facility-specific N2O emissions factor for the unit (lb N2O generated/ton nitric acid produced, 100 percent acid basis)			
Test Run Inputs					
rest Kull inputs			Volumetric flow rate of effluent	Production rate per test run during	
Nitric Acid Train ID	Test Run Number	N2O concentration per test run during the performance test (ppm N2O)	gas per test run during the performance test (dscf/hr)	the performance test (ton nitric acid produced per hour, 100 percent acid basis)	N2O emissions factor (Ib N2O generated/ton nitric acid produced, 100 percent acid basis)
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid
Nitric Acid Train ID	Test Run Number	during the performance test	performance test	the performance test (ton nitric acid produced per hour,	(lb N2O generated/ton nitric acid

#### Subpart V - Equation V-2 Inputs

Fill out the Equation V-2 inputs table.

- Nitric Acid Train Id
   N<sub>2</sub>O abatement technology Name or ID
   N<sub>2</sub>O abatement technology description

- Annual nitric acid production from nitric train during which N<sub>2</sub>O abatement technology was operational (tons acid produced, 100 percent acid
- Annual nitric acid produced from nitric acid train (tons acid produced, 100% acid basis)
- Abatement utilization factor of N2O abatement technology at nitric acid train (decimal fraction oa annual production that abatement technology is

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Marie Acid Their ID	RICH adultment technology flume of ID	\$30 abatement technology description	Annual nitric acid production trum nitric train during which \$20 abstement technology was operational (term acid produced, 100 percent acid basin)	Stone acid produced, 1997s	bechautogy at outro acut fram-

uation V-2 Inputs					
Nitric Acid Train ID	N2O abatement technology Name or ID	N2O abatement technology description	Annual nitric acid production from nitric train during which N2O abatement technology was operational (tons acid produced, 100 percent acid basis)	Annual nitric acid produced from nitric acid train (tons acid produced, 100% acid basis)	Abatement utilization factor of N2O abatement technology at nitric acid train (decimal fraction of annual production that abatement technology is operating)

### Subpart V - Equation V-3a Inputs

Fill out the Equation V-3a inputs table.

- Nitric Acid Train ID
- Destruction efficiency of N<sub>2</sub>O abatement technology that is used on nitric acid train (decimal fraction of N<sub>2</sub>O removed from vent stream)
- Annual nitric acid produced from nitric acid train (tons acid produced, 100% acid basis)
   Average site-specific N<sub>2</sub>O emissions factor for nitric acid train (lb N<sub>2</sub>O/ton acid produced, 100% acid basis)
- Abatement utilization factor of N<sub>2</sub>O abatement technology for nitric acid train (decimal fraction of annual production during which abatement
- Annual N<sub>2</sub>O mass emissions from nitric acid train according to Equation V-3a (metric tons)

Equation V-3s Equals					
Notic Acid Train III	Destruction efficiency of 630 attenues to technology that is used on attic and train structural fraction of 600 namewell from visit stream)	Annual nitric acid produced from siliro acid lease (lasse acid produced, 1999, acid basso)	Average site operatio 820 ontoness factor for eithic accid them (the NCO/ton acid produced, 100% acid benin)	distanced altitudes tactor of SCO abstanced technology for MNC acid train (society) and production during mitical abstanced technology is specialing).	danual \$20 mass and one office and train according to Equation V-3a (matrix term)

Equation V-3a Inputs					
Nitric Acid Train ID	Destruction efficiency of N2O abatement technology that is used on nitric acid train (decimal fraction of N2O removed from vent stream)	Annual nitric acid produced from nitric acid train (tons acid produced, 100% acid basis)	Average site-specific N2O emissions factor for nitric acid train (Ib N2O/ton acid produced, 100% acid basis)	Abatement utilization factor of N2O abatement technology for nitric acid train (decimal fraction of annual production during which abatement technology is operating)	Annual N2O mass emissions from nitric acid train according to Equation V-3a (metric tons)

#### Subpart V - Equation V-3b Inputs

Fill out the Equation V-3b inputs table.

- Train Level Inputs
  - Nitric Acid Train Id

  - Name Acta Trail 1d
     Annual nitric acid produced from nitric acid train (ton acid produced, 100% acid basis)
     N<sub>2</sub>O emissions factor for nitric acid train (lb N<sub>2</sub>O/ton acid produced, 100% acid basis)
     Annual N<sub>2</sub>O mass emissions from nitric acid train according to Equation V-3b (metric tons)
- Technology Level Inputs
   Nitric Acid Train ID

  - $^{\circ}~{\rm N_2O}$  abatement technology Name or ID
  - $^{\circ}~$  Destruction efficiency of  ${\rm N_2O}$  abatement technology (decimal fraction of  ${\rm N_2O}$  removed from vent stream)
  - Abatement utilization factor of N<sub>2</sub>O abatement technology (decimal fraction of time that abatement technology n is operating)
  - Percent N<sub>2</sub>O not removed from vent stream (decimal fraction)

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Milrio Acid Trans ID	Annual nitric acid produced from nitric acid train (tons acid produced, 190% acid besiti)	mitric acid train	Annual 620 mass emissions from eithic acid train according to Equation V.3b (metric tons)	
echnology Level Inputs				
New Acid Train ID	R2O abeliement technology Name or ID		Abstraced editaction factor of 620 abstraces: fechnology joeconal traction of time that abstraced fechnology is in operating)	Percent of H2O not remove from rent stream (decimal fraction)

Train Level Inputs				
Nitric Acid Train ID	Annual nitric acid produced from nitric acid train (tons acid produced, 100% acid basis)	N2O emissions factor for nitric acid train (lb N2O/ton acid produced, 100% acid basis)	Annual N2O mass emissions from nitric acid train according to Equation V-3b (metric tons)	
Technology Level Inputs				
Nitric Acid Train ID	N2O abatement technology Name or ID	Destruction efficiency of N2O abatement technology (decimal fraction of N2O removed from vent stream)	Abatement utilization factor of N2O abatement technology (decimal fraction of time that abatement technology n is operating)	Percent of N2O not removed from vent stream (decimal fraction)

## Subpart V - Equation V-3c Inputs

Fill out the Equation V-3c inputs table.

- Train Level Inputs
  - Nitric Acid Train ID
  - Annual nitric acid produced from nitric acid train (tons acid produced, 100% acid basis)
     N<sub>2</sub>O emissions factor for nitric acid train (lb N<sub>2</sub>O/ton acid produced, 100% acid basis)

  - $^{\circ}$  Annual N<sub>2</sub>O mass emissions from nitric acid train according to Equation V-3c (metric tons)
- Technology Level Inputs
  - Nitric Acid Train ID
  - N<sub>2</sub>O abatement technology Name or ID
  - $^{\circ}$  Destruction efficiency of N<sub>2</sub>O abatement technology (decimal fraction of N<sub>2</sub>O removed from vent stream)
  - Fractional control of N<sub>2</sub>O abatement technology (decimal fraction of total emissions from nitric acid train "t" that are sent to abatement technology "n"
  - Abatement utilization factor of N<sub>2</sub>O abatement technology (decimal fraction of time that abatement technology n is operating)
  - $^{\circ}~$  Percent of  $\mathrm{N_2O}$  not removed from vent stream (decimal fraction)

Well CASH Train (D	Annual nitric-acid produced from solids acid brain flome acid produced, 1889s acid Seetts	militie acid trade (ib 1000/cm	Annual 820 mass emissions from edits acid trate according to-tiquation V.3s precisic tones		
hoology Level Inputs			Frantise control factor of \$30 abstraced to booking	Protection of the State of Sta	
State Acad Train (D)	NOT-abeliament bickendogy Name or 10	Oredraction efficiency of \$30' abdement technology discinui thaction of \$30' removed from rent stream)	processed fraction of total amissions from nitric sold	of NCO abstoment becknology (decimal/hardism of time that abstrated technology is in sperating)	Percent of SDO and removed from rest obvious (doction) bection)

ain Level Inputs					
Nitric Acid Train ID	Annual nitric acid produced from nitric acid train (tons acid produced, 100% acid basis)	N2O emissions factor for nitric acid train (lb N2O/ton acid produced, 100% acid basis)	Annual N2O mass emissions from nitric acid train according to Equation V-3c (metric tons)		
chnology Level Inputs					
Nitric Acid Train ID	N2O abatement technology Name or ID	Destruction efficiency of N2O abatement technology (decimal fraction of N2O removed from vent stream)	Fraction control factor of N2O abatement technology (decimal fraction of total emissions from nitric acid train "t" that are sent to abatement technology "n")	Abatement utilization factor of N2O abatement technology (decimal fraction of time that abatement technology n is operating)	Percent of N2O not removed from vent stream (decimal fraction)

## Subpart V - Equation V-3d Inputs

Fill out the Equation V-3d inputs table.

- Nitric Acid Train ID
- Nittle Acid Train ID
   Annual nitric acid produced from nitric acid train (tons acid produced, 100% acid basis)
   Average site-specific N<sub>2</sub>O emissions factor for nitric acid train (lb N<sub>2</sub>O/ton acid produced, 100% acid basis)
   Annual N<sub>2</sub>O mass emissions from nitric acid train according to Equation V-3d (metric tons)
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quation V-3d Inputs			
Nitric Acid Train ID	Annual nitric acid produced from nitric acid train (tons acid produced, 100% acid basis)	Average site-specific N2O emissions factor for nitric acid train (Ib N2O/ton acid produced, 100% acid basis)	Annual N2O mass emissions from nitric acid train according to Equation V-3d (metric tons)

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## **Also See**

Using e-GGRT to Prepare your Subpart V Report

- Subpart V Reporting Form Facility Details Tab
   Subpart V Reporting Form Nitric Acid Train Information Tab
   Subpart V Inputs Form
   Reporting Forms
   Submitting an Administrator-approved Alternate Method for Subpart V
   Subpart V Rule Resources
   Subpart V Rule Language (eCFR)