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# Nitric Acid Plant Inspection

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## **Nitric Acid Plant Inspection**

7.1.2 Inspection of the Plant After ascertaining that the nitric acid plant is operating, the inspector should physically examine the plant. The inspector should start with an evaluation of any visible emissions that are present at the tail gas stack.

## **Nitric Acid Plant Inspection Guide - EPA**

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## **Nitric Acid Plant Inspection Guide: U. S. Environmental ...**

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inspection guide. [PEDCo Environmental, Inc.; United States. Environmental Protection Agency. Stationary Source Compliance Division.;

## **Nitric acid plant inspection guide (Book, 1985) [WorldCat.org]**

The nitric acid plant described in the following is designed to produce 550 short tons per day of 61% by weight nitric (100% basis). The process selected is the UHDE medium pressure process, which operates at 65-70 psig. The system also consists of a BASF selective NO<sub>x</sub> abator that reduces NO<sub>x</sub> content in the

### **550 STPD Nitric Acid Plant # 488**

When the nitric acid overflow surface in the acid tank is 20 cm from the top of the nitric acid tank, the acid should be stopped immediately and the gate valve should be closed. 2.6 Perform a safety check on the nitric acid tank every day and make a record of the inspection. 2.7 After adding the acid, the nitric acid

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installer records the acid addition and the amount of acid added in detail. 2.8 The person is responsible for the acid and is stored in a storage cabinet.

## **Safety operation procedures for nitric acid installers in ...**

8.8 Nitric Acid 8.8.1 General 1-2 In 1991, there were approximately 65 nitric acid (HNO<sub>3</sub>) manufacturing plants in the U. S. with a total capacity of 11 million tons of HNO<sub>3</sub> per year. The plants range in size from 6,000 to 700,000 tons per year. About 70 percent of the nitric acid produced is consumed as an intermediate in the manufacture of

## **AP42 8.8 Nitric Acid Production**

The New Source Performance Standards (NSPS) for Nitric Acid Plants were initially promulgated in 1971. The NSPS was reviewed and the standard was updated on August 14, 2012. The NSPS regulates emissions of nitrogen oxide (NO<sub>x</sub>) from new, modified or reconstructed Nitric Acid Production Units. See the

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regulations below for more details. Rule History

## **Nitric Acid Plants: New Source Performance Standards (NSPS ...**

the weak nitric acid. The basic process technology for producing nitric acid has not changed significantly over time. Most US plants were built between 1960 and 2000. There are presently 40 active weak nitric acid production plants and one high-strength nitric acid production plant. These plants are listed in Appendix B.

## **AVAILABLE AND EMERGING TECHNOLOGIES FOR REDUCING ...**

Nitric Acid new plants Two different process are available depending on the operating pressure, Mono pressure plant and Dual pressure plant . The selection between the Mono and Dual pressure process is mainly driven by plant capacity, cost of raw materials and gauzes, and return on investment.

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**Nitric Acid new plants - Casale SA**  
nitric acid (100% basis) in 1961 as reported by the U. S. Department of Commerce was 3,378,000 tons. The largest use of nitric acid is in the production of fertilizers. This usage accounts for 75% of all the nitric acid produced. About 15% of the production is used in the manufacture of explosives and 10% is distributed among a wide variety ...

## **Nitric Acid Manufacture - Taylor & Francis**

Nitric acid is a nitrogen oxoacid of formula  $\text{HNO}_3$  in which the nitrogen atom is bonded to a hydroxy group and by equivalent bonds to the remaining two oxygen atoms. It has a role as a protic solvent and a reagent. It is a conjugate acid of a nitrate.

## **Nitric acid | $\text{HNO}_3$ - PubChem**

The plant consists of a BASF selective abator to reduce  $\text{NO}_x$  in the tail gas. Ammonia consumption is 0.284 ton of

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ammonia per 1 ton of 100% nitric acid product. The plant has turn down/up ratio of 80% - 110%. It ran at 605 STPD capacity before shutdown. The plant was commissioned in 1987 and shut down in 2015.

### **550 STPD Nitric Acid Plant for Sale at Phoenix Equipment ...**

Tag: Nitric Acid. Vineyard, UT — Geneva Nitrogen by Trevor Brown. April 21, 2015. OWNER: Geneva Nitrogen LLC PROJECT: Brownfield ammonia plant. SUMMARY STATUS: Cancelled After preliminary studies through 2013, this small ammonia plant was cancelled. Geneva Nitrogen continues to purchase ammonia for upgrade to ammonium nitrate.

### **Nitric Acid - AMMONIA INDUSTRY**

nitric acid;  $3 \text{ NO}_2 + \text{H}_2\text{O} \rightarrow 2 \text{ HNO}_3 + \text{NO}$  From the bottom of the absorption col-umn, liquid nitric acid with concentration of 50-68% is withdrawn. Gaseous emissions from nitric acid

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plants In a typical nitric acid plant, continuous tail gas emissions at the absorber outlet may vary between the following limits, at a flow of 3,100-3,400 Nm<sup>3</sup> t ...

### **NS-328 Nitric acid - Emerson Electric**

The heart of the nitric acid plant is the converter where ammonia is oxidised to nitric oxide. Consisting essentially of a reactor shell wherein the pre-heated ammonia-air mixture generally flows vertically downwards through the gauze pad, it is usually situated immediately on top of the waste heat boiler. A baffle or diffuser system located in ...

### **The Manufacture of Nitric Acid | Johnson Matthey ...**

the information relating to nitric acid plants. Section 2.2 presents a summary of the information relating to adipic acid plants. 2.1 SUMMARY FOR NITRIC ACID PLANTS Approximately 65 plants in the United States produce nitric acid. The



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ammonia-oxidation process is the most commonly used process for producing weak (50 to 70 percent) nitric acid. The

## **Alternative Control Techniques Document— Nitric and Adipic ...**

Currently, the plant runs smoothly and all the parameters All process parameters are up to the production standard. Huafeng 360,000-ton/year nitric acid plant, of which the “four in one” machine train was designed and manufactured by SPC, is one of the China’s largest nitric acid plants with designed production capacity of 1200 t/d.

## **Shaangu Site China’s Largest Nitric Acid Plant Contracted ...**

This guideline is intended to facilitate corporate-level and plant-level measurement and reporting of greenhouse gas direct emissions resulting from the production of nitric acid (HNO<sub>3</sub>) A step-by- step approach is used to cover every phase of the

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calculation process from data gathering to reporting. This sectoral guideline covers process related N

### **Calculating N<sub>2</sub>O Emissions from the Production of Nitric ...**

Navoyazot nitric acid plant brought onstream. Save to read list Published by Nicholas Woodroof, Assistant Editor World Fertilizer, Thursday, 18 June 2020 14:00. Advertisement. Casale has announced that on 12 June the 500 000 tpy nitric acid plant of Navoyazot, located in Navoz, Uzbekistan, was successfully started up. ...

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