

Proposed Rule 1159.1 Survey Form

A. Facility Information

A1. Facility ID		A2. Facility Name	
A3. Facility Contact (in case there are questions)		A4. Title	
A5. Direct Phone #		A6. Email	
A7. Street Address		A8. City	A9. Zip
A10. Mailing Address	<input type="checkbox"/> Same as above or specify:	A11. City	A12. Zip
A13. Industries Served (check all that apply)	<input type="checkbox"/> Aerospace <input type="checkbox"/> Military <input type="checkbox"/> Commercial <input type="checkbox"/> General Public <input type="checkbox"/> Other (please specify)		
A14. Operating Schedule* (e.g., 8 hr/day; 5 days/week)		A15. # Of Shifts*	A16. # of Employees at the Facility*
A17. Of all employees, what percentage work on part-time basis (less than 35 hours per week)?*			_____ %
A18. Do you claim trade secret of data? (If Yes, see instructions below)			<input type="checkbox"/> YES <input type="checkbox"/> NO

Under the California Public Records Act, documentation are presumably public records and may be disclosed to a third party except certain limited information are exempt from disclosure because it qualifies as a trade secret, as explained in the District's Guidelines for Implementing the California Public Records Act. You must make such claim at the time of submittal to the District. Check "Yes" if you claim that this form or its attachments contain trade secret information.

* Pre COVID-19 conditions

B. Nitric Acid Usage

B1. Does your facility use a solution that contains nitric acid that chemically reacts with any metal during a process at your facility?		<input type="checkbox"/> YES
		<input type="checkbox"/> NO (Survey complete – Please return form)
Nitric Acid Purchases for B1.		
B2.	Nitric Acid (CAS# 7697-37-2)	<input type="checkbox"/> None purchased (skip to section B3.)
a.	Nitric acids with SDS* listed concentration: ___%	Amount purchased in 2019 year: _____ gallons
b.	Nitric acids with SDS* listed concentration: ___% (if different)	Amount purchased in 2019 year: _____ gallons
c.	Nitric acids with SDS* listed concentration: ___% (if different)	Amount purchased in 2019 year: _____ gallons
B3.	Premixed product containing Nitric Acid for B1.:	<input type="checkbox"/> None purchased (skip to section B4.)
a.	Product name (e.g. <i>Nital Etch 5%</i>): SDS* listed concentration of Nitric Acid: ___%	Amount purchased in 2019 year: _____ gallons
b.	Product name (if applicable): SDS* listed concentration of Nitric Acid: ___%	Amount purchased in 2019 year: _____ gallons
c.	Product name (if applicable): SDS* listed concentration of Nitric Acid: ___%	Amount purchased in 2019 year: _____ gallons
B4. Please describe below how nitric acid is generally used as part of the overall operation or production at the facility.		

*SDS – Safety Data Sheet supplied by manufacturer or vendor

Instructions for Tank Information (Section C, see form on next page)

Please complete the NITRIC ACID TANK INFORMATION for each tank, vessel, or reactor where there is a chemical reaction with a solution containing nitric acid with a metal. Equipment used exclusively for the storage of nitric acid should not be included.

Equipment Process¹ – Indicate the best description of the process the equipment performs. Examples include:

- *Cleaning*: process to remove impurities like grease or oil from the surface of the part prior to additional metal finishing operations to ensure a quality finish
- *Chemical etching*: chemical process that removes a thin layer metal in specific unmasked areas using an etchant
- *Chemical Milling*: similar to etching but more extensive to form contours, shapes, or to reduce weight
- *Acid pre-dip*: used to adjust pH before using acid plating solutions and/or removal of very light rust or oxides.
- *Electroless Plating*: a chemical or auto-catalytic plating process that does not utilize external electrical power.
- *Passivation*: non-electrolytic process that adds a protective oxide layer.
- *Sealing*: a secondary operation for typically anodized parts with the goal of filling in surface pores of the coated part. Examples of sealing solutions can be nickel and a potassium dichromate seal.
- *Electropolishing*: an electrochemical process that is similar to, but the reverse, of electroplating. The metal on the surface of metal object being polished is removed one ion at a time.
- *Chemical Stripping*: utilizes either an acidic or caustic bath to remove a metal finish without the use of an electrical current.
- *Dye*: process to add cosmetic coloration often after anodizing but prior to sealing.
- *Chromate conversion coating* or *Chem Film*: a type of conversion coating used to passivate steel, aluminum, zinc, cadmium, copper, etc.
- *Chemical manufacturing*: process of blending various chemicals to produce a product.
- *Precious metal reclamation*: process that recovers metals from scraps through dissolution, precipitation, and purification.

Emission Controls² – Provide information about any add-on controls that collect and control emissions.

- Add-on Controls – Select “None” if equipment is not equipped with an add-on control, otherwise select all that apply.
- Collection at Equipment – Describe how the emissions at the equipment are collected by the add-on control.
 - Sealed tank or vessel: container is enclosed with the exception of the required ducting that collects and sends the emission to the add-on control.
 - Overhead hood: rising emissions are collected by an overhead hood and sent to the add-on control.
 - Push-pull air: push air tubes help direct tank emissions toward the collection slots that pull the emissions to send to the add-on control.
 - Manifold at back of tank: typically a multiple slotted manifold that pulls emissions to send to the add-on control.

C. Nitric Acid Tank Information (2 per page) (make copies of this page as necessary or use Additional Nitric Acid Tank form)

Equipment Name and Permit Info	Equipment Process ¹		Types of Metal(s) Processed	Tank Information	Acid Concentration(s) (as used/mixed in solution)	NOx Source Test Information
Permit No: _____ Nitric Acid limits? <input type="checkbox"/> No <input type="checkbox"/> Yes (specify) _____%WT? _____gal/day? Other: _____	Metal Finishing: <input type="checkbox"/> Cleaning <input type="checkbox"/> Chemical etching <input type="checkbox"/> Chemical milling <input type="checkbox"/> Acid pre-drip <input type="checkbox"/> Passivation <input type="checkbox"/> Sealing <input type="checkbox"/> Electropolishing <input type="checkbox"/> Chemical Stripping <input type="checkbox"/> Dye <input type="checkbox"/> Chromate conversion or chem film coating	Other: <input type="checkbox"/> Chemical manufacturing <input type="checkbox"/> Precious metal reclamation <input type="checkbox"/> Other (specify) _____ Could this process be performed without the use of Nitric Acid? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe alternative: _____	<input type="checkbox"/> Aluminum <input type="checkbox"/> Titanium <input type="checkbox"/> Magnesium <input type="checkbox"/> Steel or stainless steel <input type="checkbox"/> Other (List below) _____ _____ _____	Maximum Bath Temp: _____°F Bath Surface Area: _____ sqft	Average volume of nitric acid added monthly: _____ Gallons Nitric Acid _____%Wt --Specify below if also used-- <input type="checkbox"/> Hydrochloric _____%Wt <input type="checkbox"/> Hydrofluoric _____%Wt <input type="checkbox"/> Sulfuric _____%Wt <input type="checkbox"/> Other acids _____%Wt Specify: _____	<input type="checkbox"/> Not Tested <input type="checkbox"/> on __/__/____ Emission Results: For wet scrubbers only: <input type="checkbox"/> Multistage? Solution(s) used: pH range: ORP* range (if equipped):
			Maximum depth of metal removed _____ microns -or- <input type="checkbox"/> Complete dissolution of metal	Emission Controls² Add-on Controls: <input type="checkbox"/> None <input type="checkbox"/> Mist Eliminator <input type="checkbox"/> Composite Mesh Pad <input type="checkbox"/> Scrubber <input type="checkbox"/> HEPA or <input type="checkbox"/> ULPA Permit No: _____	For add-on controls only: Collection at equipment <input type="checkbox"/> Sealed tank or vessel <input type="checkbox"/> Overhead hood <input type="checkbox"/> Push-pull air <input type="checkbox"/> Manifold at back of tank	

*ORP – Oxidation-Reduction Potential

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D. Housekeeping

D1. What is the housekeeping schedule and clean up method(s) used at area the equipment is located?	Cleaning schedule:	Method: <input type="checkbox"/> NONE <input type="checkbox"/> Vacuum <input type="checkbox"/> Wet mop <input type="checkbox"/> Wet wipe <input type="checkbox"/> HEPA Vacuum <input type="checkbox"/> Other (Describe):
D2. Is the area with the equipment from Section C subject to housekeeping requirements?	<input type="checkbox"/> No, not aware of any housekeeping requirements <input type="checkbox"/> Rule 1426 <input type="checkbox"/> Rule 1469 <input type="checkbox"/> Other (Specify): _____	