

## 2016-17 NRF User Chemical SOP Sign-off Sheet

(Check all chemicals you use; Box for NRF Lab Manual and EH&S Chemical Hygiene plan **MUST** be checked)

<input type="checkbox"/> 1-Methyl-2-Pyrrolidinone <input type="checkbox"/> 353 Developer Sodium hydroxide <1% <input type="checkbox"/> Ammonium Hydroxide <input type="checkbox"/> AZ 300 MIF Tetramethylammonium hydroxide <2% <input type="checkbox"/> AZ 300T Tetramethylammonium hydroxide <4% <input type="checkbox"/> AZ 726 MIF Developer Tetramethylammonium hydroxide <2% <input type="checkbox"/> AZ Developer Tetramethylammonium hydroxide <2% <input type="checkbox"/> Ammonium fluoride <input type="checkbox"/> BOE 20:1 Hydrofluoric Acid <4% <input type="checkbox"/> BOE 6:1 Hydrofluoric Acid <10% <input type="checkbox"/> Chloroform (500mL) <input type="checkbox"/> Chrome Etchant (CR-7S) Perchloric acid <6% <input type="checkbox"/> Chromium Etchant CRE-473 (500mL) Hydrochloric Acid <25% <input type="checkbox"/> Copper Etchant APS (500mL) Ammonium Persulfate <20% <input type="checkbox"/> Copper U Bath RTU Sulfuric Acid <9% <input type="checkbox"/> CyanTek Nano-Strip Sulfuric Acid <90% Peroxymonosulfuric Acid <5% <input type="checkbox"/> Hydrobromic Acid (500mL) <input type="checkbox"/> Hydrochloric Acid (HCl) <input type="checkbox"/> Hydrofluoric Acid (HF) <input type="checkbox"/> Hydrogen Peroxide (H <sub>2</sub> O <sub>2</sub> ) <input type="checkbox"/> MF 321 Tetramethylammonium hydroxide <2%	<input type="checkbox"/> MF CD-26 Tetramethylammonium hydroxide <3% <input type="checkbox"/> MF-322 Tetramethylammonium hydroxide <3% <input type="checkbox"/> Microposit 453 Developer Potassium Hydroxide <2% <input type="checkbox"/> N,N-Dimethylformamide (Reproductive Toxin) <input type="checkbox"/> Nano-strip Peroxymonosulfuric acid Sulfuric acid <input type="checkbox"/> Nickel Pellets <input type="checkbox"/> Nitric Acid (HNO <sub>3</sub> ) <input type="checkbox"/> Piranha (H <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O <sub>2</sub> ) <input type="checkbox"/> Poly(Acrylic acid) <input type="checkbox"/> Potassium hydroxide (KOH) <input type="checkbox"/> Resist Developer RD6 Tetramethyl ammonium hydroxide <3% <input type="checkbox"/> Silver Nitrate (AgNO <sub>3</sub> ) <input type="checkbox"/> Sodium Hydroxide (NaOH) <input type="checkbox"/> Sodium Persulfate (1kg) <input type="checkbox"/> STR 1045 (500mL) Xylene <5% <input type="checkbox"/> SU-8 Developer 1-Methoxy-2-propanol <input type="checkbox"/> Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ) <input type="checkbox"/> Tetramethylammonium Hydroxide (TMAH) <input type="checkbox"/> Titanium Etchant TFT Hydrofluoric acid <input type="checkbox"/> Toluene (Reproductive Toxin) <input type="checkbox"/> Trichloroethylene (Carcinogen) <input type="checkbox"/> Trimethyltin chloride 1.0M Sol in Hexanes <input type="checkbox"/> Trimethyl aluminum (TMA) <input type="checkbox"/> Xenon difluoride
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- ALL NRF USERS; I have read and understood the NRF's Lab Usage Guide (<http://www.nanolab.ucla.edu/pages/Documents.html>) and EH&S Lab Safety Manual/Chemical Hygiene plan <https://www.ehs.ucla.edu/research/lab/chem/chp>**
- UCLA affiliates using NRF; I have taken the in class Lab Safety Fundamental Concepts (LSFC) training offered by EH&S once and have taken the on-line refresher lab safety training (required annually once every year), if my previous training has expired.**
- ALL NRF USERS; I have taken the NRF facility safety orientation and walkthrough. I acknowledge that I will take specific training for the equipment I will use, including hazardous equipment if any.**

By checking the appropriate boxes above and signing below, you acknowledge that you have; read and understood the Standard Operating Procedure (SOP) for each chemical you use that is listed above, as well as the NRF Lab Safety Manual and EH&S Lab Safety Manual & Chemical Hygiene plan; taken the in class LSFC offered by EH&S and on-line refresher as applicable; taken Eng-IV NRF site safety orientation and you will follow all relevant safety procedures to the best of your ability. SOP's for the above listed chemicals can be found on <http://www.nanolab.ucla.edu/pages/sop.html>

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User Name (Last, First)

\_\_\_\_\_  
User Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Prof/Company

\_\_\_\_\_  
NRF Badge #