



Bureau Of Emergency Medical Services & Trauma System

April 28, 2020 - Decontamination Resource for N95 Reuse: Battelle Critical Care Decontamination System (Battelle CCDS)

In order to address the current shortage of N95 filtering facepiece respirators (FFRs), the State of Arizona will soon have access to the [Battelle Critical Care Decontamination System™](#) (Battelle CCDS™). The Battelle CCDS is designed to decontaminate N95 respirators for the novel coronavirus (SARS-CoV-2) and can decontaminate tens of thousands of N95 respirators per day. The Battelle CCDS uses low concentration, vapor-phase hydrogen peroxide to decontaminate N95s of pathogens, including SARS-CoV-2, allowing safe reuse of the same N95 up to 10 times without degraded performance.

The Battelle CCDS will be available for use by healthcare providers across Arizona **free of cost** beginning in early May. **If your agency is interested in participating in this opportunity to utilize the Battelle CCDS to decontaminate N95s, we are requesting that you begin to prepare for this by taking the following steps:**

1. **Stop disposing of N95 masks** that are free of damage (not torn or ripped) and free of visible soiling (blood, bodily fluids, or makeup).
2. **Register your agency** at battelle.org/decon to receive a unique 3-digit facility code.
3. **Label each N95 mask** with the Battelle-provided 3-digit facility code.
4. Collect worn *unsoiled* N95s. N95s should be double bagged and boxed in preparation for shipment to the Battelle CCDS site. **Please review the documents in the “Additional Resources” section for more details and instructions regarding this process.**
5. You will receive FedEx labels to ship your N95s to the Battelle site free of cost.

Upon arrival at the site of the Battelle CCDS, Battelle will log your agency’s N95s into an inventory database using barcodes. Each N95 is then assessed to ensure it is free of visible soiling (soiled masks will be rejected for disposal). Unsoiled N95s are then staged for decontamination and loaded into the decontamination chamber, where they undergo a decontamination cycle. Treated N95s are sampled to ensure complete decontamination. Finally, clean N95s are packaged and returned to the original agency via commercial carrier.

Additional Resources:

- [Instructions for Healthcare Personnel: Preparation of Compatible N95 Respirators for Decontamination by the Battelle Memorial Institute Using the Battelle Decontamination System](#)
- [Instructions for Healthcare Facilities: Preparation and Collection of Compatible N95 Respirators for Decontamination by the Battelle Memorial Institute Using the Battelle Decontamination System](#)
- [FDA’s Emergency Use Authorization Permitting Emergency Use of the Battelle CCDS](#)

Battelle CCDS™ Process

HEALTH CARE PROVIDER SIGN-UP PROCESS Battelle CCDS Critical Care Decontamination System™

BATTELLE

1 Sign up with Battelle

- Visit battelle.org/decon to fill out the enrollment form
- Battelle emails enrollee links to the enrollment contract, instructions, and the Battelle POC

battelle.org/decon



2 Contact Us to Get Your Code

- Enrollee signs contract and contacts Battelle POC to receive their 3-digit codes for each facility



3 Properly Label Respirators

- Once the 3-digit codes are received from Battelle, enrollee collects N95 respirators
- N95 respirators must be unsoiled (free of blood, mucus, make-up, lip balm, etc.) and labeled with a permanent marker



4 Collect & Bag All N95 Respirators

- Enrollee collects all N95 respirators into a single plastic bag
- Once the plastic bag is filled, tie off the bag and put it into another plastic bag



5 Properly Package

- Clean the outside bag with disinfectant
- Shipping box must be labeled with the 3-digit code and a biohazard sticker



6 Ship to CCDS Site

- Enrollee contacts their chosen logistics provider to coordinate pick-up and delivery of their N95 respirators
- Enrollee can either use a logistics provider of their choice or Battelle's preferred logistics provider



7 Decontaminated & Returned

- Your shipments are barcoded to ensure chain of custody
- Your N95 respirators are processed and then verified to ensure they are free of decontaminant
- Your decontaminated N95 respirators are returned to your facility



If you have any questions, please contact the Arizona Department of Health Services Health Emergency Operations Center (HEOC) at heoc@azdhs.gov.

Sincerely,

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