Battelle CCDS™ Process

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



- Sign up with Battelle
- Visit <u>battelle.org/decon</u> to fill out the enrollment form
- Battelle emails enrollee links to the enrollment contract, instructions, and the Battelle POC





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







Battelle CCDS™ Process

HOW IT WORKS Battelle CCDS Critical Care Decontamination System™



Your Facility's Responsibility

- Your Battelle POC will provide you with 3-digit codes for each facility
- The 3-digit code must be written on each individual N95
- Collect 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
- Clean the outside bag with disinfectant
- Shipping box must be labeled with the 3-digit code and a biohazard sticker
- You can either use a logistics provider of your choice or Battelle's preferred logistics provider
- Your shipments are barcoded to ensure chain of custody

Battelle CCDS" Process

- Your N95 respirators are exposed to the vapor phase hydrogen peroxide process
- After processing, your N95 respirators are verified to ensure they are free of decontaminant
- The logistics provider returns your decontaminated N95 respirators back to your facility



















<u>Instructions for Healthcare Facilities: Preparation and Collection of Compatible N95 Respirators for</u> Decontamination by the Battelle Memorial Institute Using the Battelle Decontamination System

The U.S. Food and Drug Administration has authorized an Emergency Use Authorization (EUA) for the emergency use of the Battelle CCDS Critical Care Decontamination System™ (hereafter referred to as the "Battelle Decontamination System") operated by the Battelle Memorial Institute ("Battelle"), for use in decontaminating compatible N95 or N95-equivalent respirators ("compatible N95 respirators"), for reuse by healthcare personnel. Healthcare personnel should follow these instructions, as well as procedures at their healthcare facility, to prepare compatible N95 respirators for decontamination by Battelle using the Battelle Decontamination System.

- <u>Due to incompatibility, the Battelle Decontamination System is not authorized for use with respirators</u> containing cellulose-based materials
- All compatible N95 respirators provided to Battelle must be free of any visual soiling or contamination (e.g., blood, bodily fluids, makeup)
- If N95 respirators are soiled or damaged, they will be disposed of and not returned after decontamination

On-Site Collection/Marking

- 1. Your organization should create a collection station at the point of generation (i.e. hospital floor/unit)
- 2. Each station should have a bag provided by the healthcare facility to collect compatible N95 respirators.

 NOTE: Bags are for compatible N95 respirators only. Do not throw other personal protective equipment (such as gloves), paper towels, or waste in the collection bag.
- 3. With a permanent marker, the healthcare personnel should label their own individual compatible N95 respirators with a three-digit site code and a 2-digit location identifier (as shown below). The unique site code corresponds to the healthcare facility delivery address and will be assigned by Battelle. Your organization may designate the location identifier to correspond to a specific location/floor/unit within your site.
- 4. Healthcare personnel should follow the instructions provided by Battelle in Instructions for Healthcare Personnel: Preparation of Compatible N95 Respirators for Decontamination by the Battelle Memorial Institute Using the Battelle Decontamination.

Site Code Site Location ID

(Assigned by Battelle Point Of Contact) (Assigned by Healthcare Facility)







Preparation for Shipment:

- 1. Bags containing the contaminated compatible N95 respirators to be decontaminated by Battelle ("primary collection bag") should be closed.
- 2. Place the primary collection bag into another bag ("secondary collection bag") (provided by the healthcare facility), which is then closed.
- 3. Decontaminate the secondary collection bag with alcohol or other suitable decontaminant.
- 4. Place the decontaminated bags into a rigid, closed box (supplied by the healthcare facility) clearly labeled with a biohazard symbol, and tape the box securely shut.
- 5. Label the outside of the box with the 3-digit site code and 2-digit location identifier.

Shipment under the healthcare facility's agreement with Battelle:

- 1. Gather all boxes; complete one chain of custody form (provided by Battelle) per shipment, noting the number of boxes.
- 2. Coordinate with your organization's courier service to arrange transfer to designated Battelle location.

Reuse Information:

Following decontamination, you will be provided <u>decontaminated compatible N95 respirators</u> that have been processed through a decontamination system for reuse by healthcare personnel in a healthcare setting during the COVID-19 pandemic. Before reuse, the healthcare facility should review the chain of custody form, which indicates successful decontamination, accompanying the returned respirators. The healthcare facility should also inspect each returned, decontaminated compatible N95 respirator for:

- 1. Numeric indication of the decontamination cycle number. <u>NOTE: Compatible N95 respirators will be disposed of after 20 decontamination cycles.</u>
- 2. Visible damage or soiling. NOTE: Compatible N95 Respirators should be discarded and not reused if visually damaged or soiled.

Any problems should be immediately reported to Battelle.

Battelle Contact: 1-800-201-2011 or solutions@battelle.org



<u>Instructions for Healthcare Personnel: Preparation of Compatible N95 Respirators for</u> <u>Decontamination by the Battelle Memorial Institute Using the Battelle Decontamination System</u>

The U.S. Food and Drug Administration has authorized an Emergency Use Authorization (EUA) for the emergency use of the Battelle CCDS Critical Care Decontamination System™ (hereafter referred to as the "Battelle Decontamination System") operated by the Battelle Memorial Institute ("Battelle"), for use in decontaminating compatible N95 and N95-equivalent respirators ("compatible N95 respirators"), for reuse by healthcare personnel. Healthcare personnel should follow these instructions, as well as procedures at their healthcare facility, to prepare compatible N95 respirators for decontamination by Battelle using the Battelle Decontamination System.



Due to incompatibility, the Battelle Decontamination System is not authorized for use with respirators containing cellulose-based materials.

All compatible N95 respirators provided to Battelle must be free of any visual soiling or contamination (e.g. blood, bodily fluids, makeup).

Compatible N95 respirators that are visually soiled or damaged should not be collected for decontamination and will be disposed of and not returned after decontamination.

N95 Respirator Marking and Collection

- 1. Label your own individual compatible N95 respirator using a permanent marker; do not label others' or ask others to label for you.
- 2. Labeling should be legibly written on the outside OR inside of each compatible N95 respirator, as shown below.
- 3. Label ALL compatible N95 respirators with the three-digit site code and 2-digit location identifier provided below.
- 4. Place your compatible N95 respirator in the collection bag provided by your healthcare facility at a designated collection station at your facility.

NOTE: Collection bags are for compatible N95 respirators only; do not throw other personal protective equipment (such as gloves), paper towels or waste in the collection bags.

Site Code

ATERISTOLIMAN

Appropriation to sensor results

Appropriation of the sensor results

Site Location ID



FACT SHEET FOR HEALTHCARE PERSONNEL

Battelle Decontamination System for Decontaminating Compatible N95 Respirators

March 29, 2020

Coronavirus
Disease 2019
(COVID-19)

You have been given a **decontaminated N95 or N95-equivalent respirator** that has been decontaminated using a decontamination system **for reuse by healthcare personnel in a healthcare setting** to help prevent healthcare personnel exposure to pathogenic biologic airborne particulates during the COVID-19 pandemic.

This Fact Sheet informs you of the significant known and potential risks and benefits of the emergency use of decontaminated N95 or N95-equivalent respirators. These compatible N95 or N95-equivalent respirators have been decontaminated using the Battelle CCDS Critical Care Decontamination System™ (hereafter referred to as "decontaminated N95 respirators" and "Battelle Decontamination System" throughout this Fact Sheet).

Decontaminated N95 respirators that have been decontaminated using the Battelle Decontamination System are authorized for use by healthcare personnel in a healthcare setting during the COVID-19 pandemic.

Whether or not you use a respirator, always follow infection control measures: wash hands, cover coughs and sneezes, stay home if you may be sick.

What are the symptoms of COVID-19?

Many patients with confirmed COVID-19 have developed fever and/or symptoms of acute respiratory illness (e.g., cough, difficulty breathing). However, limited information is currently available to characterize the full spectrum of clinical illness associated with COVID-19. Based on what is known about the virus that causes COVID-19, signs and symptoms may appear any time from 2 to 14 days after exposure to the virus. Based on preliminary data, the median incubation period is approximately 5 days, but may range 2-14 days.

Public health officials have identified cases of COVID-19 infection throughout the world, including the United States, which may pose risks for public health. Please

check the CDC webpage for the most up to date information.

What do I need to know about the emergency use of decontaminated N95 respirators?

- The Battelle Decontamination System has been authorized for emergency use to decontaminate compatible N95 or N95-equivalent respirators for reuse by healthcare personnel during the COVID-19 pandemic to prevent wearer exposure to pathogenic airborne particulates.
 - Compatible N95 or N95-equivalent respirators under the Battelle Emergency Use Authorization are those that do not contain cellulose-based materials.
- Successful testing on decontaminated N95
 respirators demonstrated acceptable performance
 through 20 decontamination cycles for sporicidal
 activity, viricidal activity, filtration efficiency,
 breathability, form fit testing, and strap integrity
 testing, per authorized respirator.

Use of decontaminated N95 respirators:

- ✓ Inspect respirators <u>after each use</u> prior to submission for decontamination
- ✓ Discard respirators with <u>visible soiling</u> (e.g., blood) <u>or damage – do not use and do not send</u> <u>for decontamination</u>
- ✓ <u>Cellulose-based materials are incompatible</u> with the Battelle decontamination process
- ✓ The number of times a respirator has been decontaminated is written on the respirator (maximum 20 times)
- ✓ <u>Report problems</u> with decontaminated N95 respirators to your healthcare facility
- Monitor healthcare personnel for signs and symptoms of potential infection with SARS-CoV-2 or other respiratory infection for up to and including 14 days after last contact with the SARS-CoV-2 virus and related material, and promptly report such information to Battelle.
- Report damage or discoloration observed upon receipt of the decontaminated N95 respirators, and

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potential exposure of healthcare personnel from breaks in or other damage to or degradation of the decontaminated N95 respirators.

Use appropriate personal protective equipment (PPE) when caring for individuals suspected of having COVID-19 as outlined in the CDC webpages, including *Interim Infection Prevention and Control Recommendations for Patients with Confirmed Coronavirus Disease 2019 (COVID-19) or Persons Under Investigation for COVID-19 in Healthcare Settings, Infection Control, and FAQ about PPE.*

Current information on COVID-19 for healthcare personnel is available at CDC's webpage, *Information for Healthcare Professionals* (see links provided in "Where can I go for updates and more information" section).

What are the known and potential benefits and risks of using decontaminated N95 respirators?

Potential benefits include:

- May help prevent exposure to airborne pathogens, and therefore risk of infection or illness
- Extends the usability of compatible N95 or N95equivalent respirators by allowing for decontamination and reuse

Potential risks include:

- Failure of filtration efficiency
- Reduced breathability
- Strap failure and ineffective face-fit
- Reused respirators may not have been effectively decontaminated of SARS-CoV-2 or other pathogens

Overview of the Battelle Decontamination System

The Battelle Decontamination System is a self-contained decontamination device that uses vapor phase hydrogen peroxide (VPHP) for decontamination of compatible N95 or N95-equivalent respirators that are contaminated or potentially contaminated with SARS-CoV-2. N95 or N95-equivalent respirators containing cellulose-based materials are incompatible with the Battelle decontamination process.

Each decontamination cycle in the Battelle Decontamination System consists of injecting VPHP into the decontamination chamber until achieving a saturated atmosphere indicated by micro condensation; maintaining the VPHP exposure for a 150-minute dwell time; and allowing the VPHP to off gas to a level of 1 ppm prior to post decontamination processing. A minimum of five calibrated chemical indicators are dispersed throughout the system to indicate a successful decontamination cycle. This decontamination system enables the reuse of compatible N95 or N95-equivalent respirators that would otherwise be disposed of after a single use. However, respirators that are visibly soiled must be discarded and not reused or decontaminated.

What is an EUA?

The United States FDA has made the emergency use of the Battelle Decontamination System to decontaminate compatible N95 or N95-equivalent respirators available under an emergency access mechanism called an Emergency Use Authorization (EUA). The EUA is supported by the Secretary of Health and Human Service's (HHS's) declaration that circumstances exist to justify the emergency use of medical devices, including alternative products used as medical devices, due to insufficient supply during the COVID-19 pandemic.

The Battelle Decontamination System has been made available under an EUA, and has not undergone the same type of review as an FDA-approved or cleared device. FDA may issue an EUA when certain criteria are met, which includes that there are no adequate, approved, available alternatives, and based on the totality of scientific evidence available, it is reasonable to believe that the Battelle Decontamination System may be effective at preventing healthcare personnel exposure to pathogenic airborne particulates during periods of insufficient respirator supply during the COVID-19 pandemic by decontaminating, for a maximum of 20 decontamination cycles per respirator, compatible N95 or N95-equivalent respirators that are contaminated or potentially contaminated with SARS-CoV-2 or other pathogenic microorganisms.

The EUA for the Battelle Decontamination System is in effect for the duration of the COVID-19 declaration

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justifying emergency use of medical devices, unless terminated or revoked (after which the products may no longer be used).

Where can I go for updates and more information?

CDC webpages:

General: https://www.cdc.gov/COVID19

Healthcare Professionals:

https://www.cdc.gov/coronavirus/2019-nCoV/guidance-

hcp.html

Infection Prevention and Control Recommendations in

Healthcare Settings:

https://www.cdc.gov/coronavirus/2019-ncov/infection-

control/control-recommendations.html

Infection Control: https://www.cdc.gov/coronavirus/2019-

ncov/infection-control/index.html

FAQ on Personal Protective Equipment:

https://www.cdc.gov/coronavirus/2019-ncov/hcp/respirator-

use-faq.html

FDA webpages:

General: www.fda.gov/novelcoronavirus

EUAs: https://www.fda.gov/medical-devices/emergency-situations-medical-devices/emergency-use-authorizations