




Purpose	<p>Outline requirements for doffing, followed by cleaning and disinfection of Controlled Air Purifying Respirators (CAPR).</p>																		
Background	<p>CAPRs are assigned for individual wear following assessment and training by a qualified Occupational Health professional in cases of medical or religious accommodation where no other N95 respirator can be worn.</p> <div style="display: flex; align-items: flex-start;">  <table border="1" style="width: 70%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">ITEM</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td>1</td><td>Helmet Liner</td></tr> <tr><td>2</td><td>Helmet</td></tr> <tr><td>3</td><td>HE Filter Cartridge</td></tr> <tr><td>4</td><td>Filter Cover Cap (FCC)</td></tr> <tr><td>5</td><td>Disposable Lens Cuff (DLC) - Small/ Medium (SM) and Medium/ Large (ML)</td></tr> <tr><td>6</td><td>Li-Ion Battery</td></tr> <tr><td>7</td><td>Li-Ion Battery Charger</td></tr> <tr><td>8</td><td>Battery Belt</td></tr> </tbody> </table> </div> <p>Notes:</p> <ol style="list-style-type: none"> 1. This CAPR model does not provide source control. Accordingly, a procedure mask must be worn underneath the Disposable Lens Cuff. 2. Frequency of changing filters will depend upon the application, the environment where used, and the frequency and duration of use. Additionally, due to its self-monitoring system, the yellow LED will illuminate when airflow intake nears the threshold of 6 cfm (170 lpm), allowing the user ample time to exit the working environment, and change out a heavily loaded filter. Otherwise, filter change-out a minimum of every six-to-twelve months is recommended. 3. Fit-testing is not required for this CAPR. 4. CAPRS can accommodate multiple users if the procedures outlined below are adhered to. 5. Safety LEDs are always on and visible in the peripheral vision of the user. They automatically alert the user when it is time to exit the environment and re-charge or change out the battery, and/or change the filter. <ol style="list-style-type: none"> a. When lit, the yellow LED indicates a low airflow condition. If it lights up during use it indicates that the system is nearing a point when it won't be able to maintain desired air flow and it is time to check the filter to see if replacement is necessary. b. The three green LEDs together with the red LED provide the user general progress status of the battery charge level. Three green lit LEDs indicate approximately 75%-100% charge remaining, two green lit LEDs indicate approximately 50%-75% charge remaining, one green lit LED indicates approximately 25%-50% charge remaining – if not before, at this condition the user should be planning on recharging the battery or replacing it at the next opportunity. No green lighted LEDs and a red lighted LED indicates 0%-25% charge remaining and that it is urgent that the user replace or recharge the battery as soon as possible. If both red and yellow LED's are lit, both battery and filter need to be checked for change out. 	ITEM	DESCRIPTION	1	Helmet Liner	2	Helmet	3	HE Filter Cartridge	4	Filter Cover Cap (FCC)	5	Disposable Lens Cuff (DLC) - Small/ Medium (SM) and Medium/ Large (ML)	6	Li-Ion Battery	7	Li-Ion Battery Charger	8	Battery Belt
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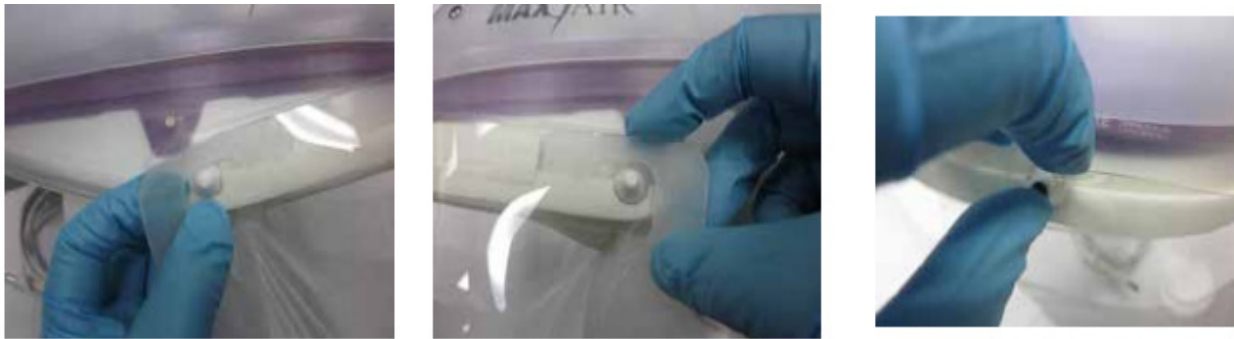
	c. Batteries provide between 8-15 hours of continuous use per charge. They can be recharged between 450-500 times/cycles. Do NOT leave batteries on chargers after they are fully charged and the charger LED turns green.
Required Materials	<ul style="list-style-type: none"> • Alcohol-based hand rub (ABHR) • Facility-approved disinfectant wipes (e.g., accelerated hydrogen peroxide [Intervention]). Where wipes are not available, ready-to-use (RTU) disinfectant solution with appropriate cleaning cloths may be used • 2 absorbent blue pads • Gloves • Stable surface


The Process:

Step	1) Doffing the Helmet
1.1	Follow process to appropriately don PPE, in correct order. Gloves and gown should be removed prior to doffing the Helmet.
1.2	Perform hand hygiene (HH) with either alcohol based hand rub (ABHR) or soap and water.
1.4	Mask should remain on as per extended use guidelines.
1.5	Apply new gloves.
1.6	Disconnect the Helmet Power Cord from the Battery by releasing the secure lock (press down on the black button above the Cord Connector) and pull the Power Cord Connector straight out of the Battery Connector. NOTE: The Helmet Power Cord may remain connected to the helmet for all normal operation, donning/doffing, and assembly/disassembly.
1.7	Loosen the rear Headband Adjustment Knob (turn counter-clockwise).
1.8	Hold the front top of the Helmet in one hand. With the other hand on the Adjustment Knob, lift the Helmet up and off the head.
1.9	Place the Helmet and helmet power cord on an absorbent blue pad on a stable flat surface.
1.10	Remove gloves. Perform HH.
1.11	Remove battery belt (if used) with attached battery pack
1.12	Place Battery belt and/or battery pack on the absorbent blue pad beside the Helmet power cord.


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1.13	Separate the battery pack from the belt (if worn)
1.14	Perform HH. Don new gloves. If Helmet is grossly/visibly soiled, consider donning a gown and eye protection during the cleaning and disinfection process.

Step	2) Cleaning and Disinfecting Process
2.1	<p>With Helmet securely on the absorbent blue pad oriented so the front faces the user, remove the Disposable Lens Cuff from the Helmet by grasping the sides of the Disposable Lens Cuff, just below where they meet the bottom edge of the Helmet. Hold each side firmly with the thumb and index finger of each hand and pull straight out, away from the Helmet and off the side Helmet Mounting Posts.</p> 
2.2	Continue to pull the Disposable Lens Cuff forward, away from the front of the Helmet to remove the remainder of the attached lens completely off the Helmet.
2.3	Dispose the used Lens in the garbage.
2.4	Doff gloves. Perform HH.
2.5	Don clean gloves.
2.6	Place a second absorbent blue pad close to the first absorbent blue pad that has the used Helmet on it.
2.7	With clean gloves, take seven disinfectant wipes. Set four aside. If there is visible soiling on the on the inside or outside of the Helmet take an eighth disinfectant wipe and set it aside.
2.8	Use the first disinfectant wipe to grasp Helmet at the back. Turn Helmet over so inside is facing up. Place it back down on the first absorbent blue pad.
2.9	Use first disinfectant wipe to stabilize the Helmet; pull off Sweatband and put aside for storage and reuse. Discard band if visibly soiled or showing signs of wear (e.g., tears, cracking).

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<p>2.10</p>	<p>While still stabilizing the Helmet, use second disinfectant wipe to carefully wipe inside of the Helmet. Discard second disinfectant wipe. Allow for required wet contact time.</p> <p><u>If there is visible soiling on the inside of the Helmet:</u></p> <ol style="list-style-type: none"> Use second disinfectant wipe to remove visible soiling. Discard second disinfectant wipe. Take third disinfectant wipe and wipe inside again. Allow for required wet contact time. If gloves become visibly soiled during process, remove gloves, perform HH, and don a clean pair of gloves.
<p>2.11</p>	<p>Use the first disinfectant wipe to turn the Helmet over. Place it on the second absorbent blue pad.</p>
<p>2.12</p>	<p>Use the third disinfectant wipe to wipe outside of the Helmet and Power Cord. Discard both disinfectant wipes. Allow for required wet contact time.</p> <p><u>If there is visible soiling on the outside of the helmet or power cord:</u></p> <ol style="list-style-type: none"> Use third disinfectant wipe to remove visible soiling. Discard third disinfectant wipe. Take fourth disinfectant wipe and wipe outside again. Allow for required wet contact time. If gloves become visibly soiled during process, remove gloves, perform HH, and don a clean pair of gloves.
<p>2.13</p>	<p>Once air dried, place Helmet in a <i>pre-designated</i> secure storage space (e.g., plastic bin with lid, closed storage cart) with Power Cord attached.</p>
<p>2.14</p>	<p>Take two of the fresh disinfectant wipes that had been previously set aside.</p>
<p>2.15</p>	<p>Use one disinfectant wipe to pick up the Battery.</p>
<p>2.16</p>	<p>Use the second disinfectant wipe to wipe as much of the Battery as possible.</p>
<p>2.17</p>	<p>Hold the Battery with the disinfectant wipe. Use the first disinfectant wipe to wipe the rest of the Battery.</p>
<p>2.18</p>	<p>Hold Battery to allow for required wet contact time.</p>
<p>2.19</p>	<p>Place Battery down on the second absorbent blue pad and allow to air dry completely. Discard both disinfectant wipes.</p>
<p>2.20</p>	<p><u>If a Belt was used for the Battery Pack:</u></p> <ol style="list-style-type: none"> Take two more disinfectant wipes from those that were set aside. Take the first disinfectant wipe and hold the Belt at one end, at the 'buckle'.

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	<p>c. <i>Take the second disinfectant wipe. Starting at the end of the Belt being held, wipe both sides of the Belt.</i></p> <p>d. <i>Hold Belt with second disinfectant wipe just under the ‘buckle’.</i></p> <p>e. <i>With first disinfectant wipe, thoroughly wipe the ‘buckle’.</i></p> <p>f. <i>Discard both wipes. Allow required wet contact time on disinfected surfaces.</i></p>
<p>2.21</p>	<p>Remove gloves. Perform HH.</p>
<p>2.22</p>	<p>With clean hands take the Helmet with power cord, and Belt (if using), and place in a <i>pre-designated</i> secure storage space (e.g., plastic bin with lid, closed storage cart).</p>
<p>2.23</p>	<p>Ensure the Battery Charger is plugged into an appropriately grounded 110VAC wall outlet, and the LED indicator on the Charger is green. Connect the Battery pack to the Battery Charger by pushing the Charger Cord Connector into the Battery Connector. The Battery Charger light should turn red within a few seconds, to indicate charging. If the Battery Charger LED remains green, it means the Battery pack is sufficiently charged and ready for the next use.</p> <p>WARNING: Ensure the Battery pack is removed from the Battery Charger when the Charger LED turns green. Do not leave the Battery pack on the Battery Charger after the Battery pack is charged and the light turns green, and never longer than the typical maximum charging time for the Battery pack. Refer to the User’s Instructions P/N 03521015 Rev K or higher for details on battery pack care and charging instructions, warnings, cautions, and notes.</p> <p>When battery pack is removed from charger after being sufficiently charged, it can be placed in the <i>pre-designated</i> secure storage space (e.g., plastic bin with lid, closed storage cart) until next use.</p>