

Module 5 Operations

Block #	Title	Text/Narration
5.3.1	Siting Requirements	<p>Proper Siting and set-up of the MIRCS is the most important factor in achieving mission success.</p> <p>Prior to set-up, there are many considerations that must be taken into account. These include terrain, space constraints, and traffic flow.</p>
5.3.2	Terrain	<p>The MIRCS must be operated on firm ground with a 6-degree slope or less. The more level the ground, the easier it will be to off-load and set up the MIRCS. Once in position, level can be achieved using leveling jacks at the four corners of the unit.</p>
5.3.3	Terrain	<p>The MIRCS should be positioned to allow rainwater to run away. This will prevent rainwater from being a nuisance during MA operations.</p> <p>If the MIRCS is to be connected to an external non-pressurized water supply, the height of the water supply should be no more than two feet below the level of the MIRCS.</p>

<p>5.3.4</p>	<p>Space Constraints</p>	<p>Providing adequate space for conducting MA operations is essential for efficient remains processing. Allow adequate space to access all four sides of the MIRCS for Maintenance PMCS and maintenance. Also allow space for the side platforms to be lowered and for the generator to be deployed at the rear. Ensure adequate space is provided to deploy the ramp, remains lifting device (RLD), and temporary remains holding shelter(s). Overhead vegetation and other hindrances must clear the top of the MIRCS by a minimum of 8 feet and be cleared from the path of the exhaust coming from the refrigeration unit (RU), the engine, and the generator engine. The external water tank must be within 20 feet of the MIRCS water connection point. If an external power source is used, the MIRCS must be a maximum of 50 feet from the power connection point.</p>
<p>5.3.5</p>	<p>Traffic Flow</p>	<p>Designated areas should be laid out for vehicles in a manner that prevents vehicle traffic from interfering with MA operations. The drain hoses and waste collection containers from the MIRCS should be routed to avoid both vehicle and foot traffic areas. Water supply hoses, the electrical power cable (if used), and communication cables must also be routed away from traffic. An unrestricted path must be maintained to allow tankers to service the MIRCS fuel and water supplies. The front of the MIRCS should not be located within 10 meters of any equipment containing an RF transmitter.</p>

5.3.7	General Operating Information	The usual conditions operating procedures are divided into seven work packages. The specific procedures required to operate the MIRCS depend on the operational scenario. Table 1 provides a listing of the various procedures by work package with a description of what is contained in each procedure.
5.5.1	Level MIRCS - Remove Leveling Jacks	<p>WARNING</p> <p>The MIRCS ramps, leveling jacks, RLD storage bag, work light storage bag, support storage bag, external water pump, and MPPs weigh over 45 lbs. each. Two persons are required to carry these items. Ensure you avoid injury by lifting with your legs and not with your back.</p> <ol style="list-style-type: none"> 1. Offload the MIRCS from the HEMTT or other transport vehicle in the desired location. 2. Remove leveling jacks from the front storage area as follows: <ol style="list-style-type: none"> a. Unthread the collar a few turns then rotate handle to the UNLOCK position on each jack. b. Swing each jack outward until the twist lock is clear of the bracket. c. Lift the jack upward until the locking pin is clear of the keyway then remove the jack. d. Repeat the steps for the other three leveling jacks.

5.5.2	Remove Leveling Jacks	<ol style="list-style-type: none"> 3. Remove the pump handle from the bracket then set it aside. 4. Remove the ladder from the front storage area as follows: <ol style="list-style-type: none"> a. Pull the QC pin securing the hold down bracket to the front retaining plate. b. Pivot the hold down bracket forward then remove the bracket from the rear retaining plate. c. Remove the ladder from the storage area. d. Reinstall the hold down the bracket in retaining plates and secure it with the QC pin. 5. Remove the leveling jack feet from the front storage area as follows: <ol style="list-style-type: none"> a. Flip the ring over and pull the locking pin out of the adjusting pin. b. Pull the adjusting pin out of the storage provision and foot then lift foot off of the storage provision. c. Repeat these steps for the other three leveling jack feet. <p>NOTE If MIRCS is on uneven terrain and must be lifted more than 15-inches at any corner, follow the instructions provided in the OPERATION IN UNUSUAL CONDITIONS work package (WP 0013) for Operation on Uneven Terrain.</p>
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5.5.2a	Leveling Jacks Assembly	<p>6. Attach feet to leveling jacks as follows:</p> <ol style="list-style-type: none"> a. Position the foot so that the “UNDER HANDCRANK” stencil is going to be below the hand crank. b. Insert the foot completely into the leg. c. Insert the adjusting pin through the leg and foot. d. Insert the locking pin through the adjusting pin then flip the ring over. e. Repeat the steps for the other three leveling jacks.
5.5.3	Leveling Jacks Installation	<p>WARNING</p> <p>Ensure the twist locks are properly engaged with the corner fittings and that the locking handle is in the straight-up or straight-down position.</p> <ol style="list-style-type: none"> 7. Attach a leveling jack to each corner of the MIRCS as follows: <ol style="list-style-type: none"> a. Rotate the handle towards the LOWER direction until leg is at its lowest position. b. Lift up and insert locking pin into the keyway. Then pivot the jack downward to insert the twist lock into the corner fitting. c. Rotate the handle 90° to the vertical LOCK position, then tighten the collar. d. Repeat these steps for the other three leveling jacks.

5.5.4	Leveling Jacks Installation	<p>WARNING</p> <p>The MIRCS must be raised evenly on all four corners at the same time. Placing excessive load on one corner can cause excessive stress to the leveling jack resulting in collapse of the jack and a potential for injury or death if you become trapped under the container.</p> <p>NOTE</p> <p>The person at the leveling jack closest to the bubble levels should provide instruction to the other jack operators during the raising process.</p> <ol style="list-style-type: none">8. With an operator stationed at all four corners, level MIRCS as follows:<ol style="list-style-type: none">a. Rotate the handles until feet on all four jacks are contacting the ground.b. Raise the leveling jacks as necessary until the bubble levels are within the indicator marks.c. Together, raise the MIRCS until waste drain port is about 12 in off the ground. Note: This will allow water to properly drain into the waste container.d. Make final height adjustment then verify that the bubble levels are within indicator marks.
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5.5.5	Setup Ladder	<p>WARNING</p> <p>Always extend the ladder from the bottom up. Keep hands and fingers away from sliding points on the ladder sections when opening and closing. Never climb on the ladder unless the locking devices are properly engaged.</p> <ol style="list-style-type: none"> 1. Extend the ladder as follows: <ol style="list-style-type: none"> a. Place your foot on bottom rung and lift to separate it from next higher rung until the locks are engaged. b. Continue extending the ladder until the desired height is achieved.
5.5.6	Setup Ladder	<p>WARNING</p> <p>Always make sure the ladder is resting on and supported by firm ground. Always keep the ladder rungs dry and free of dirt. Do not over-reach—over the ladder instead. Keep your body centered between side rails. Never allow more than one person on the ladder at a time and ensure a spotter is available.</p> <ol style="list-style-type: none"> 2. Place ladder as required.

5.5.7	Ramp Removal	<p>WARNING</p> <p>When removing ramps, be careful not to pinch fingers between ramps and MIRCS structure.</p> <ol style="list-style-type: none"> 1. Remove the top ramp as follows: <ol style="list-style-type: none"> a. Pull the QC pins out of the top ramp and generator cable support. b. Lift up on the top ramp until notch clears support then remove the ramp and set aside for later assembly. 2. Remove the bottom ramp as follows: <ol style="list-style-type: none"> a. Pull the QC pins out of the bottom ramp and generator cable support. b. Lift up on the bottom ramp until the notch clears the support then remove the ramp and set aside for later assembly.
5.5.8	Deploy Generator	<ol style="list-style-type: none"> 1. Remove the generator supports from under the frame as follows: <ol style="list-style-type: none"> a. Pull the QC pin out of the frame and generator support. b. Remove the generator support from under the frame. <p>NOTE</p> <p>It may be necessary to move supports from side-to-side when pulling the supports out from under frame.</p> <ol style="list-style-type: none"> c. Reinsert the QC pin back into the frame. d. Repeat the steps for other generator support. e. Flip the generator supports over so the stabilizer bars are facing inboard.

5.5.9	Deploy Generator	<ol style="list-style-type: none">2. Remove the generator brace as follows:<ol style="list-style-type: none">a. With a person on each end, pull the QC pins.b. Slide the generator brace rearward until it clears the brackets.c. Reinsert the QC pins back into the generator brace then set the brace aside. <p>NOTE When moving the generator cable support away from the frame, ensure cables are clear of the brackets.</p> <ol style="list-style-type: none">3. With a person on each end, evenly lift the generator cable support up out of the frame and allow to hang from the cables.
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5.5.10	Deploy Generator	<ol style="list-style-type: none">4. Install the generator supports onto the frame as follows:<ol style="list-style-type: none">a. Pull the QC pins out of the generator cable support.b. Lift up and hold the generator cable support out away from the unit.c. Install the LH generator support onto the frame with the stabilizer bar facing inboard.d. Install the RH generator support onto the frame with the stabilizer bar facing inboard.5. Mate the generator cable support to the generator supports.6. Insert the QC pins to secure the generator supports to the cable support. <p>NOTE It is important to properly connect stabilized bars to the frame. The entire generator support structure only becomes secure and stable after the bars are properly secured.</p> <ol style="list-style-type: none">7. Secure the generator supports to the frame as follows:<ol style="list-style-type: none">a. Pull QC pins from stabilizer bars.b. Pivot the stabilizer bars over and align to the frame.c. Insert the QC pins to secure the stabilizer bars.
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5.5.11	Deploy Generator	<p>WARNING</p> <p>Personnel must remain clear of the area between the generator supports during generator movement. Keep hands away from the rollers. When pulling the generator rearward keep arms clear of the cables.</p> <p>CAUTION</p> <p>Care must be used when deploying the generator so as not to pinch or damage the electrical cable or the pigtail. Ensure the cable is clear of all obstructions and pinch points as the generator is moved rearward .</p> <ol style="list-style-type: none">8. With personnel stationed behind generator cable support move generator from stowed position and secure as follows:<ol style="list-style-type: none">a. Using the straps attached to the tie-down the rings, pull rearward on the generator, keeping your arms clear of the cables.b. Continue to pull the generator rearward until the generator contacts the stops.c. Remove the straps from the tie down rings, then use them to secure the generator to the generator cable support.d. Pull the QC pin out of the generator cable support and insert through the right-hand generator support and generator.
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5.5.12	Deploy PA and AA Platforms	CAUTION The platform support legs must be removed from ISO frame prior to lowering the PA platform. Attempting to lower the platform without first removing the legs will damage the platform and legs. <ol style="list-style-type: none">1. Remove the two platform support legs as follows:<ol style="list-style-type: none">a. Pull the QC pin out of the support leg and mounting provisions.b. Slide the support leg out of the mounting provisions.c. Insert the QC pin back into the support leg, then set the support leg aside for later installation.d. Repeat these steps for the second support leg.
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5.5.13	Deploy PA and AA Platforms	<p>WARNING If not operated properly, platform may experience sudden and unexpected drops. Prior to lowering the platform, verify that all personnel are and remain clear.</p> <p>CAUTION The side locks must be retracted and the catch must be extended prior to lowering the platform. Attempting to lower the platform without first unlocking the side locks and extending the catch may cause damage to the side locks, catch, platform, and hydraulic system components.</p> <p>NOTE Slightly retracting the platform will remove tension from the side locks and allow them to be unthreaded without binding.</p> <ol style="list-style-type: none"> 2. Unlock the PA platform as follows: <ol style="list-style-type: none"> a. Place the EXTEND/RETRACT lever in the RETRACT position. b. Place the RAISE/LOWER lever in the RAISE position. c. Install the handle into the pump. d. Stroke the pump with the handle slightly to ensure the PA platform is completely raised. e. Place the EXTEND/RETRACT lever and the RAISE/LOWER lever in the NULL position.
5.5.14	Deploy PA and AA Platforms - Lower PA Platform	<ol style="list-style-type: none"> f. Verify that personnel are clear of the PA platform and that there are no obstructions that would prevent complete lowering of the platform. g. Remove the crank handle from the Maintenance tool box. h. Insert the crank handle into the rear side lock and rotate in the UNLOCK direction until the pin is completely retracted into the beam. i. Repeat the step at the front side lock.

5.5.14.1	Deploy PA and AA Platforms - Lower PA Platform	<ol style="list-style-type: none">3. Lower the PA platform as follows:<ol style="list-style-type: none">a. Position the EXTEND/RETRACT lever to EXTEND.b. Operate the pump with the handle until the catch is fully extended.c. Position the EXTEND/RETRACT lever to NULL.d. Position the RAISE/LOWER lever to LOWER. <p>NOTE</p> <p>During the platform lowering operation, downward movement of the platform can be stopped at any time by placing the RAISE/LOWER lever in the NULL position.</p> <ol style="list-style-type: none">e. The platform will begin lowering under its own weight. If necessary, pull slightly on the sides of the platform until gravity takes affect.f. Allow the PA platform to lower until cables are tight.g. Place the RAISE/LOWER lever back to the NULL position.
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5.5.15	Deploy PA and AA Platforms - Support Leg Installation	WARNING Never walk on the platforms until they are properly supported. <ol style="list-style-type: none">4. Install the two support legs to support the PA platform as follows:<ol style="list-style-type: none">a. Pull the QC pin out of the upper leg, then slide the lower leg out from inside of the upper leg.b. Insert the lower leg back into the outer tubes of the upper leg and temporarily secure it by inserting the QC pin in one of the four alignment holes in the upper leg.c. Pull the QC pin out of the fork support on edge of the PA platform.d. Mate the upper support leg with the fork support. Then insert the QC pin.e. Pull the QC pin out of the upper leg, then slide the lower leg down until the foot is resting flat on the ground.f. Insert the QC pin in one of the four alignment holes to secure the upper leg to the lower leg.g. Repeat the steps for the second support leg.5. Repeat the steps to install both legs for the AA platform.6. Remove and stow the pump handle and the crank handle.
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5.5.16	Deploy PA and AA Soft Walls	NOTE In order to allow the end walls to be easily zipped, do not completely tension the soft wall when it is expanded. <ol style="list-style-type: none">1. With an operator positioned on each end of the AA platform, apply tension to the soft wall as follows:<ol style="list-style-type: none">a. At each side of the soft wall, hold the outer supports and pull the QC pins.b. Push up and out on the outer supports to expand, but not completely tension the soft wall.c. Reinsert the QC pins in any one of the four alignment holes.2. Unzip the vestibule door and flip over top of the soft wall.
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5.5.17	Deploy PA and AA Soft Walls - End Wall and Interior Flap Deployment	<ol style="list-style-type: none">3. Attach the end wall to the AA soft wall as follows:<ol style="list-style-type: none">a. Lift up on the end wall and attach (zip) to the soft wall outer edge.b. Pull down on the inside and outside flaps along the outer edges of the soft wall.c. Attach the inside flap to the interior wall.d. Repeat the steps for the opposite end wall. <p>NOTE In order to prevent rain or snow from collecting on roof of soft walls it is important to apply as much tension as possible across the entire length of each soft wall.</p> <ol style="list-style-type: none">4. Put the final tension on both ends of the soft wall as follows:<ol style="list-style-type: none">a. Working together at either end, remove the QC pin, push up on the outer supports to apply tension to the soft wall, and reinsert the pin.b. Repeat the step to tension other end of the soft wall.5. Repeat the step to deploy the PA soft wall.
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<p>5.5.18</p>	<p>Remove Stowed Accessories</p>	<ol style="list-style-type: none"> 1. Remove the cargo net from both sides of the supply area as follows: <ol style="list-style-type: none"> a. Push in on the buckles and pull the straps out of the buckles and gratings. b. Insert the straps back into the buckles to keep them from tangling. c. Lift the cargo net off of the accessories and fold it up. 2. Remove <u>these</u> accessories from the supply area or RSU and temporarily locate them in the AA area or outside of the unit. [Click the link to review the accessories in turn.] 3. Remove the cargo net from the shelving unit as follows: <ol style="list-style-type: none"> a. Push in on the buckles and pull straps out of the buckles and from the footman’s loops. b. Fold-up the cargo net.
<p>5.5.19</p>	<p>Assemble and Attach Ramp Sections - Determine Ramp Length</p>	<p>WARNING To ensure personnel can safely operate the mobile processing platform on the ramp with minimal effort, it is important that the ramp length be correctly sized and be completely assembled before use.</p> <ol style="list-style-type: none"> 1. At the ramp connection point on the AA platform, determine the approximate distance to the ground. If distance is one foot or less, only the top ramp section is required.

5.5.20	Assemble and Attach Ramp Sections	<ol style="list-style-type: none">2. Pull the QC pins, remove the tenons from the top ramp and bottom ramp, then re-install the QC pins into ramps.3. Attach the connecting links to top ramp as follows:<ol style="list-style-type: none">a. Remove the left-hand and right-hand connecting links from the RLD storage bag.b. Pull the QC pin out of left-hand connecting link.c. Insert the left-hand connecting link into the top ramp.d. Insert the QC pin to secure the connecting link to the top ramp.e. Repeat the steps for the right-hand connecting link.
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<p>5.5.21</p>	<p>Assemble and Attach Ramp Sections</p>	<p>NOTE It is only necessary to use bottom ramp when operating on sloped terrain. If only the top ramp is required, stow the tenons in the RLD storage bag and set the bottom ramp under platform out of the way .</p> <p>NOTE When using the bottom ramp, make sure the ramps are placed on their sides before attaching them to each other. It is much more difficult to perform this process with the ramps laying flat on the ground.</p> <p>4. Attach the bottom ramp to the top ramp as follows:</p> <ol style="list-style-type: none"> a. Pull the QC pins out of the top ramp. b. Slide the tenons to the center position, then reinsert the QC pins to secure the tenons to the top ramp. c. Position the ramps so they are resting on their sides. d. Pull the QC pins out of the bottom ramp. e. With a person on each end, align the tenons with bottom ramp and slide the bottom ramp into the top ramp. f. Reinsert the QC pins to secure the bottom ramp to the top ramp.
<p>5.5.22</p>	<p>Assemble and Attach Ramp Sections</p>	<p>5. Attach the top ramp to the AA platform as follows:</p> <ol style="list-style-type: none"> a. Pull the QC pins out of the connecting links. b. With a person on each side, mate the top ramp to the AA platform and secure with QC pins. c. Flip the threshold over the AA platform.

5.5.23	Establish Electrical Power Connection	WARNING Master power must be shut off before connecting the MIRCS power cable. Do not apply power to the MIRCS until a separate connection has been made with a suitable earth ground. Be careful not to come into contact with high-voltage connections. Whenever possible, keep one hand away from equipment to reduce the hazard of current flowing through the body's vital organs. <ol style="list-style-type: none">1. Ensure the generator set or external power source is turned off.2. Drive a grounding rod into the ground near the ground lug.3. Attach ground wire to establish a ground between ground lug and grounding rod in accordance with FM5-424.4. Remove the dust cover from the electrical connector.5. Remove the dust cover from the generator pigtail or external power cable.6. Connect the pigtail or power cable to the electrical connector. Do not apply power at this time.7. Connect one dust cover to the other dust cover.
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5.5.24	Establish Water Supply (Interior Valves)	CAUTION If the MIRCS will be operating at ambient temperatures below 32°F, precautions must be taken to prevent freeze damage to the water system. [Click here to review Operation in Cold information] <ol style="list-style-type: none">1. Close the interior water system valves as follows:<ol style="list-style-type: none">a. Slide the water system access panel out from the shelving unit.b. Close the drain valve on the water plumbing so that valve handle is across valve.c. Close the drain valve on the water heater by rotating the valve CW.d. Reinstall the water system access panel.e. Close the sink hot and cold water levers.f. Close the utility hose diverter valve.
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5.5.25	Establish Water Supply (Exterior Valves)	<ol style="list-style-type: none">2. Close the drain valve on the exterior water plumbing.3. Position the external water pump within 20 feet of the MIRCS and a water source.4. Close the drain valve on the Y-strainer.5. Attach the water pump discharge hose to the water port.6. Route the water pump discharge hose towards and connect to the external water pump.7. Attach the water pump supply hose to the water source. Do not open the supply valve at the water source at this time.8. Route the water pump supply hose towards and connect to the external water pump.9. Connect the water pump electrical cable to the ECU enclosure receptacle.10. Route the water pump electrical cable along side of the water pump discharge hose, then connect to the external water pump.
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5.5.26	Establish Fuel Supply	<p>WARNING</p> <p>Before making any connections or servicing the fuel supply, ensure the fuel container is properly connected to a suitable earth ground and is electrically bonded to the MIRCS frame. Ensure fire extinguishing equipment is available and operational.</p> <p>CAUTION</p> <p>The MIRCS should only be operated using JP-8, DF-1, or DF-2 fuel. The fuel supply must be free of water and contaminants. Connections on fuel hoses must be clean prior to connecting to the generator and fuel supply. Improper, dirty, or contaminated fuel can cause failure of the generator engine, RU engine, and MIRCS fuel system components.</p> <p>NOTE</p> <p>In order to establish proper prime in the fuel supply hose leading to the generator, the fuel connection at the generator must be properly tightened and quick-connect fittings on hoses must be fully seated.</p>
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5.5.26	Establish Fuel Supply	<ol style="list-style-type: none">1. Remove the fuel hose and adapter from the generator storage compartment.2. Connect the adapter fuel port as follows:<ol style="list-style-type: none">a. Unthread the dust cap on the generator fuel port.b. Thread the adapter onto the fuel port. Ensure the connection is snug, but do not over-tighten.3. Connect fuel hose to supply port. Listen for metallic click to ensure connection is fully seated.4. Connect the dust plug and cap to each other.5. Route the fuel hose under generator through the forklift pocket.6. Connect the fuel hose to the adapter. Listen for the metallic click to ensure the connection is fully seated.7. Connect the dust plug and cap to each other.8. Ensure the shut-off valves are opened.
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5.5.27	Establish Waste Drains	<p>WARNING</p> <p>Wastewater generated during MA operations may contain chemical and/or bio-hazardous materials. When handling waste system hoses and containers, personnel must wear impermeable gloves and goggles for protection.</p> <ol style="list-style-type: none">1. Place a waste container next to the main drain port but make sure it doesn't block access to the RU.2. Remove the main cap.3. Add approximately 1 oz of bleach to the waste container.4. Connect the waste hose to the main drain port.5. Connect the waste hose to the waste container and tighten.6. Unthread and remove the vent cap from the waste container.7. Unthread the full indicator from the waste hose t-fitting and thread onto the waste container.8. Thread the vent cap onto side of waste hose t-fitting for storage.9. Open the shutoff valve.10. Repeat steps 1 through 9 to connect the waste hose to the PA platform drain port.
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5.5.27.1	Deploy ECU Ducting	<p>Warning Generator exhaust contains deadly gases. Do not operate the MIRCS without the ECU inlet filter and ducting installed, or severe illness or death due to carbon monoxide poisoning could result.</p> <ol style="list-style-type: none">1. Loosen the clamps at the ends of the duct connectors. Pull the protective cover from the ECU inlet port.2. Attach the duct connector to the ECU inlet port and secure with the clamp.3. Secure the duct to corner fitting with the strap.4. Place the inlet filter on the AA platform and secure with the strap.5. Attach the duct connector to the inlet filter, and secure with the clamp.6. Secure the duct to support rod with the strap.7. If installed, remove the ECU cover by unfastening the nine buckles, pulling the straps out of the loops and removing cover from the ECU.
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5.5.27.2	Deploy Soft Wall Supports	<ol style="list-style-type: none">1. Unzip the storage bag and remove the AA partition support rod, AA partition, supply area door, exterior flaps, and weapons racks. Set items aside for later use.2. Remove the nine top supports and front supports from the storage bag.3. Install the supports under the PA soft wall as follows:<ol style="list-style-type: none">a. Insert the top support into the receptacle.b. Rotate the top support lightly and insert the front support into the top support.c. Lift up slightly on the top support then rotate the front support until it is straight.d. Ensure the foot is out against the track.e. Secure the supports to the PA soft wall with the straps.f. Repeat the steps for remaining four the PA soft wall supports.g. Repeat the steps to install for supports under the AA soft wall.h. Fold up the storage bag and stow it on the supply shelving.
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5.5.28	Deploy Work Lighting	<p>WARNING</p> <p>Ensure excess cable from lights is wrapped or tucked into straps to prevent personnel from getting caught or hung up during movement.</p> <p>NOTE</p> <p>If the power cord from each string of work lights is not connected to the proper electrical outlet, light control through the MA Maintenance panel switch will not be possible.</p> <ol style="list-style-type: none">1. Unzip and remove the seven work lights, the supply area light, and two extension cords from the work light storage bag.2. Install the PA work lights as follows:<ol style="list-style-type: none">a. Orient the light with the male plug towards the electrical outlet, and secure the light to ceiling through the straps.b. Install the lights with the male plugs pointing towards the preceding light.c. Route the power cords through the loops.d. Connect light to light and light to light.e. Install an extension cord to connect light to light.f. Connect the light to electrical outlet marked PA.
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5.5.29	Deploy Work Lighting	<ol style="list-style-type: none">3. Install the supply area work light as follows:<ol style="list-style-type: none">a. Orient the light with the male plug towards the electrical outlet, then push the light onto the mounting clips.b. Connect the power cord to the electrical outlet.4. Install the AA work lights as follows:<ol style="list-style-type: none">a. Orient the light with the male plug towards the electrical outlet, and secure the light to ceiling through the straps.b. Install the light with the male plug pointing towards work the light.c. Route power cords through the loops.d. Connect light to light.e. Connect the light to the extension cord.f. Connect the extension cord to electrical outlet marked AA.5. Install the vestibule work light as follows:<ol style="list-style-type: none">a. Orient the light with the male plug towards the electrical outlet and secure the light to ceiling through the straps.b. Route the power cord through the loops.c. Connect the light to the electrical outlet.
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5.5.30	Deploy Emergency/Blackout Lighting	WARNING Ensure excess cable from the lights are wrapped or tucked into straps to prevent personnel from getting caught or hung up during movement. <ol style="list-style-type: none">1. Remove the four emergency/blackout lights and the extension cable from the storage bag.2. Install the emergency/blackout lights in the supply area, PA, vestibule, and AA as follows:<ol style="list-style-type: none">a. Unfasten—but do not remove—strap, then unroll each light cable.b. Route the light cables through the loops towards the power connectors.c. For the PA light only, connect the extension cable to the light cable.d. Align the keys in the plugs of the light cables with the slots in the power connectors, then thread the plugs onto the connectors hand-tight.
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5.5.31	Deploy AA Partition and Supply Storage Area Door	<ol style="list-style-type: none"> 1. Attach the AA partition as follows: <ol style="list-style-type: none"> a. Insert the rod into sewn hole in the base of partition. b. Attach the partition to the AA interior wall. c. Separate the ceiling and wall flaps and insert the partition between the flaps. d. Press down on the flaps to secure them to the partition. e. Unfasten the buckles then open the curtain door. 2. Attach the supply door as follows: <ol style="list-style-type: none"> a. Remove the strap then unroll the supply door. b. Pull the QC pins from the track. c. Mate the track to frame and secure with QC pins. d. Install the strap and use as desired to keep the supply area door opened.
5.5.32	Deploy Exterior End Wall Flap	<ol style="list-style-type: none"> 1. At the rear PA corner, mate the exterior flap with the upper corner of the soft wall and frame. 2. Repeat for the front PA corner, rear AA corner, and front AA corner. 3. If installed, remove the RU cover by unfastening the eleven buckles, pulling straps out of the loops and pulling the cover away from the RU.

5.5.33	Set Up PA Work Space	<ol style="list-style-type: none"> 1. Place the two mobile processing platforms MPPs in the PA work area. 2. Remove the MPP height extension from the MPP and place it in the RSU top row. 3. If desired, set up the electrical box as follows: <ol style="list-style-type: none"> a. Remove the electrical box from the work light storage bag and place it on the floor as needed. b. Route the electrical cord through the loops. c. Plug the electrical cord into the duplex receptacle.
5.5.34	Set Up AA Work Space	<ol style="list-style-type: none"> 1. Position the weapons racks against the base of the end wall. 2. Locate and set-up the folding table and chairs. 3. Set up the electrical box as follows: <ol style="list-style-type: none"> a. Remove the electrical box from the work light storage bag and place on the floor as needed. b. Route the electrical cord through the loops in the ceiling. c. Plug the electrical cord into the duplex receptacle. 4. Route any communication cabling as needed through the boot. 5. Set up the office area in the AA workspace as desired.

5.5.35	Set Up Temporary Remains Shelter	<ol style="list-style-type: none">1. Remove the shelter from its carrying pouch.2. Position the shelter on the ground in desired location.3. Remove the stakes and guy ropes from the storage pocket.4. Starting at either end, secure the corners of the shelter floor to the ground as follows:<ol style="list-style-type: none">a. Slide the stakes through the loops and drive the stakes into the ground.b. Move back to the next set of loops, pull the floor tight, and drive the stakes into the ground.c. Repeat steps a and b until the floor is secured with the fourteen stakes.5. Starting at either end, secure the shelter end walls to the ground as follows:<ol style="list-style-type: none">a. If not already completed, tie the guy ropes to loops at the top of end walls.b. On each guy rope, slide the tensioner at least one foot away from the looped end to allow for tension adjustment.c. Slide the stake through the guy rope, pull the guy rope out away from the end wall, and drive the stake into the ground.d. Repeat step c for the other guy ropes.e. Adjust the tensioners until there is equal tension on all guy ropes.
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5.5.35.1	Set Up Temporary Remains Shelter	<ol style="list-style-type: none"> 6. Place any unused stakes and guy ropes back in the storage pocket. 7. If ventilation is desired, roll up and tie off the flaps on the end walls. <p>NOTE Additional ventilation can be achieved by connecting a fan to the ducting at either end of the shelter.</p> <ol style="list-style-type: none"> 8. Repeat steps to set up the other temporary shelters if necessary.
5.6.1	Initial RU Start-Up	<p>NOTE Use this procedure when starting the MIRCS for the first time after set up or after the water and waste system have been drained.</p> <p>WARNING Operating personnel must be familiar with system operation, warnings, and emergency procedures prior to operating the MIRCS.</p> <p>CAUTION If shutting down the RU, wait 30 seconds before restarting. Failure to do so may result in tripping the standby motor circuit protection.</p> <ol style="list-style-type: none"> 1. Perform BEFORE Transport Mode PMCS procedure, Items 1, 2 and 4 (WP 0023). Verify that the RU RUN/STOP switch on the RU control box is positioned outboard to RUN. 2. On the RU control enclosure, position I/O switch to I. 3. Press the ROAD key.

<p>5.6.2</p>	<p>Initial RU Start-Up</p>	<p>NOTE After power is applied to the RU, there is a 30-second delay before the RU attempts to start. After starting, the RU should run in heat mode for 45 seconds. It will then switch to cool mode if the RSU temperature is above the set point or remain in heat mode if the outside temperature is below the set point.</p> <ol style="list-style-type: none"> 6. After the 30-second delay verify the engine starts. 7. Observe the display. It should read a set point of 34°F and show the RU operating in heating mode. <p>Perform DURING Ground Mode PMCS procedure, Item 1 (WP 0023).</p>
<p>5.6.3</p>	<p>Initial ECU Start-Up</p>	<ol style="list-style-type: none"> 1. Ensure all BEFORE Ground Mode PMCS procedures have been completed (WP 0023). [Click to Review] 2. Bring the MEP-804A generator on line (TM 9-6115-643-10) or apply external power (WP 0008) as required. 3. Set the generator output to 208 VAC, 60 Hz. 4. Position the MAIN DISCONNECT switch on the ECU control enclosure to ON. 5. Position the VENTILATION FANS switch to ON. 6. Wait about 30 seconds for the fans to speed-up. Check for air flow at the AA ducts, PA ducts and exhaust outlet. 7. Verify that no ECU fault lights are on.

5.6.4	Setting Interior Work Area and RSU Temperature	<ol style="list-style-type: none"> 1. Consult the table to determine the proper switch and temperature settings based on the outside air temperature. <p>NOTE For maximum fuel efficiency, the RU should always be run in standby mode except when the ECU auxiliary heat is required. When auxiliary heat is needed, the generator will be operating near 100 percent load if the RU is running on standby at the same time.</p> <ol style="list-style-type: none"> 2. Set the AUXILIARY HEAT switch on the ECU control enclosure to the required position per the table.
5.6.5	Setting Interior Work Area and RSU Temperature (cont)	<ol style="list-style-type: none"> 3. At the MA operation enclosure, select correct mode for BLACKOUT switch per operational requirements. 4. Turn on the interior lights as desired using the switches. 5. At the ECU thermostat, select mode and temperature setting per the table and as follows: <ol style="list-style-type: none"> a. Loosen the two captive screws then open the access window. b. Position the HEAT/OFF/COOL switch to the desired mode. c. Adjust the knob to the desired setting between 50°F and 90°F per the table. d. Close the access window and secure by finger-tightening the two captive screws. 6. If authorized by the table, switch the RU operation to standby mode by pressing the STANDBY key.

5.6.6	Prime Water System	<ol style="list-style-type: none"> 1. Unless previously completed, establish water supply (WP 0008). [Click to Review] 2. Open the valve(s) at the water source. 3. Open the valve on the Y-strainer. 4. Wait for the water to start draining, then close the valve. 5. Open the valve on the external piping.
5.6.7	Prime Water System (Cont)	<ol style="list-style-type: none"> 6. Wait for the water to start draining, then close valve. 7. Slightly open cold water lever on the personnel sink faucet. 8. Depress and hold the foot switch below the sink. <p>NOTE The water pump may turn on and off several times automatically before the water system is completely primed. If the utility hose switch is pressed prior to properly priming the water system, the MIRCS power must be turned off and then turned back on prior to attempting to prime the water system.</p>
5.6.8	Prime Water System (Cont)	<ol style="list-style-type: none"> 9. Continue to release and hold the foot switch until a steady stream of water comes out of the faucet. 10. Release the foot switch and close the cold water lever. 11. Open the hot water lever and depress the foot switch. 12. Continue to hold the foot switch until a steady stream of water comes out of the faucet.

5.6.9	Prime Water System (Cont)	<ul style="list-style-type: none"> 13. Release the foot switch and close the hot water lever. 14. Unroll and connect the utility hose. 15. Fully open the lever on the utility hose faucet. 16. Point the spray nozzle at the PA platform drain or into the sink. 17. Depress and release the foot switch while squeezing the spray nozzle.
5.6.10	Prime Water System (Cont)	<ul style="list-style-type: none"> 18. Release the foot switch and spray nozzle when a steady stream is present at the spray nozzle. 19. Close the lever. 20. Roll up utility hose. 21. Utilize cold water as desired. Wait approximately ½ hour for hot water heater to heat water to required temperatures.
5.7.1	Start-Up Assessment	<p>NOTE Use this procedure for Daily Operation.</p> <p>WARNING Operating personnel must be familiar with system operation, warnings, and emergency procedures prior to operating the MIRCS.</p> <ul style="list-style-type: none"> 1. If personnel are starting from a power-off condition and the MIRCS was drained due to cold weather operation, perform INITIAL ADJUSTMENTS BEFORE USE AND SELF-TEST (WP 0009). [Click to Review]

5.7.2	RU Start-Up	<ol style="list-style-type: none"> 1. Perform BEFORE Transport Mode PMCS procedure, Items 1, 2 and 4 (WP 0023). [Click to Review] 2. Verify FUEL LEVEL switch is positioned to ON. 3. On the RU control enclosure position I/O switch to I. 4. Press the ROAD key. <p>NOTE After power is applied to the RU, there is about a 30-second delay before the RU attempts to start. After starting, the RU should run in heat mode for 45 seconds then switch to cool mode if the RSU temperature is above the set point or remain in heat mode if the outside temperature is below the set point.</p>
5.7.3	RU Start-Up	<ol style="list-style-type: none"> 5. After the 30-second delay verify that the engine starts. 6. Perform DURING Ground Mode PMCS procedure, Item 1 (WP 0023). [Click to Review] <p>NOTE High engine speed (ROAD) is only required for very high and very low outside temperatures or when the RSU being opened and closed frequently. Operating the RU in low engine speed (CITY) will make the RU run quieter and reduce fuel usage.</p> <ol style="list-style-type: none"> 7. Press the CITY key if desired to change the engine speed.

5.7.4	ECU Start-Up	<ol style="list-style-type: none"> 1. Bring the MEP-804A generator on-line (TM 9-6115-643-10) or apply external power as required. 2. Set the generator output to 208 VAC, 60 Hz. 3. Position the MAIN DISCONNECT switch on the ECU control enclosure to ON. 4. Position the VENTILATION FANS switch to ON. 5. Wait about 30 seconds for the fans to speed-up. Check for air flow at the AA ducts, PA ducts and the exhaust outlet. 6. Verify that no ECU fault lights are on.
5.7.5	Setting Interior Work Area and RSU Temperature	<ol style="list-style-type: none"> 1. Consult the table to determine the proper switch and temperature settings based on the outside air temperature. <p>NOTE For maximum fuel efficiency, the RU should always be run in standby mode except when the ECU auxiliary heat is required. When auxiliary heat is needed, the generator will be operating near 100-percent load if the RU is running on standby at the same time.</p> <ol style="list-style-type: none"> 2. Set the AUXILIARY HEAT switch on the ECU control enclosure to the required position per the table.

5.7.6	Setting Interior Work Area and RSU Temperature (cont)	<ol style="list-style-type: none"> 3. At the MA operation enclosure, select the correct mode for the BLACKOUT switch per operational requirements. 4. Turn on the interior lights as desired using the switches. 5. At the ECU thermostat, select mode and temperature setting per the table and as follows: <ol style="list-style-type: none"> a. Loosen the two captive screws then open access window. b. Position the HEAT/OFF/COOL switch to the desired mode. c. Adjust the knob to the desired setting between 50°F and 90°F per the table. d. Close the access window then secure it by finger-tightening the two captive screws. 6. If authorized by the table, switch the RU operation to standby mode by pressing the STANDBY key.
5.7.7	Water System Start-Up and Operation	<ol style="list-style-type: none"> 1. Open the cold and hot water levers on the personnel sink faucet. 2. Depress and hold the foot switch below sink. <p>NOTE After start-up, it will take the water heater about ½ hour to heat the water. Cold water will be available immediately.</p> <p>All water consumed at the sink and utility hose during daily operation will be collected in waste containers. Use water discipline to conserve water and limit the amount of wastewater and the frequency of changing waste containers. Always keep the hot and cold water levers on the sink faucet closed when not in use.</p>

5.7.8	Water System Start-Up and Operation	<ol style="list-style-type: none">3. Verify that a steady stream of water is flowing from the faucet then release the foot switch and close the levers. If water flow is not steady, perform the Water System Priming portion of INITIAL ADJUSTMENTS BEFORE USE AND SELF-TEST (WP 0009).4. Use the water from the sink when needed as follows:<ol style="list-style-type: none">a. Open the cold and hot water levers on the personnel sink faucet.b. Depress and hold the foot switch below the sink.c. Adjust water temperature as desired using cold and hot water levers.d. Close the cold and hot water levers, then release the foot switch when water flow is no longer desired.
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5.7.9	Water System Start-Up and Operation	<ol style="list-style-type: none">5. Use the utility hose when needed as follows:<ol style="list-style-type: none">a. Fully open the lever on the utility hose faucet.b. Unroll the utility hose. <p>NOTE</p> <p>When the UTILITY HOSE switch is pressed and released, water pressure will be available at the utility hose for 15 minutes. If addition hose usage is required, the switch may be depressed and released every 15 minutes as needed.</p> <ol style="list-style-type: none">c. Depress and release the UTILITY HOSE switch on the water system junction box.d. Squeeze the spray nozzle and perform sanitizing operations as required.e. After sanitizing operations are completed, roll up the utility hose.f. Close the lever.
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5.7.10	Waste Collection	<p>WARNING</p> <p>Wastewater generated during MA operations may contain chemical and/or bio-hazardous materials. When servicing waste containers, personnel must wear impermeable gloves and goggles for protection. Shutoff valve at the inlet to the waste containers must be closed prior to disconnecting the drain hose. Failure to close the valve may result in spilling of chemical or bio-hazardous wastewater, causing exposure to improperly-protected or unsuspecting personnel working nearby.</p> <p>NOTE</p> <p>The RU waste container should be checked at least daily. The Main and platform waste containers should be checked at least every four processing operations.</p> <ol style="list-style-type: none"> 1. Change the waste containers at the main drain and platform drain as follows: <ol style="list-style-type: none"> a. Close the shutoff valve on the waste hose. b. Unthread the full indicator from the waste container.
5.7.11	Waste Collection	<ol style="list-style-type: none"> c. Unthread the vent cap from the t-fitting and thread it onto the waste container. d. Disconnect the waste hose from the waste container. e. Install the cap on the waste container. f. Relocate the full waste container to the disposal or collection area. g. Remove the cap from empty the waste container. h. Unthread the vent cap from the waste container.

5.7.12	Waste Collection	<p>(step 1 cont)</p> <ul style="list-style-type: none"> i. Add approximately 1 oz of bleach to the waste container. j. Connect the waste hose to the waste container and tighten. k. Thread the full indicator onto the waste container. l. Thread the vent cap onto the waste hose t-fitting. m. Open the shutoff valve. n. Repeat the steps at the platform drain.
5.7.13	Waste Collection	<ul style="list-style-type: none"> 2. Change the RU waste container as follows: <ul style="list-style-type: none"> a. Pull the drain hose from the waste container. b. Thread the caps on the waste container. c. Push in on the latch and separate the strap. d. Remove the full waste container and relocate it to the disposal or collection area. e. Unthread the cap from the empty waste container. f. Add approximately 1 oz of bleach to the waste container. g. Thread the cap back onto the waste container. h. Install the waste container and secure it with the strap. <p>NOTE</p> <p>If the vent cap is not opened on the RU waste container water, will not drain into the container and will instead overflow from the evaporator drain pan and drip onto the RSU floor.</p> <ul style="list-style-type: none"> i. Remove the cap and back off the vent cap but do not remove. j. Push the drain hose back into the waste container.

5.7.14	Waste Collection	<ol style="list-style-type: none"> 3. If authorized, dispose of waste container contents as follows. Otherwise, collect the waste containers for transport back to an approved bio-hazardous waste disposal facility. <ol style="list-style-type: none"> a. Gently shake the waste containers for about 1 minute to allow the bleach to mix with wastewater. b. Unthread the cap and pour the contents into the approved disposal area. c. Thread the cap back onto the waste container.
5.7.15	MPP and Transfer Operations	<p>NOTE Remains should always be loaded into the RSU from bottom to top and from left to right. Only use the top row after the bottom three rows are filled. When transferring remains into or out of top row of the RSU, it will be necessary to use the MPP extension. [Click to review installing MPP Extension]</p> <ol style="list-style-type: none"> 1. Determine the location in the RSU where the remains will be transferred.

5.7.16	MPP and Transfer Operations	CAUTION When installing the tension on top of the MPP, make sure that the end legs and the side legs are properly attached. Failure to support the extension along its entire length can result in damage to the extension or MPP frame when a load is applied. 2. Attach the extension to the MPP as follows: <ul style="list-style-type: none">a. Unfasten the straps and fold down the end legs and side legs.b. Pull the QC pins out of the end legs.c. Place the extension on the top of MPP.d. Insert the QC pins to secure the end legs to the MPP.
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5.7.17	MPP and Transfer Operations	NOTE Remains will be transferred into the RSU feet first and removed head first. In order to maintain the correct orientation, remains will be moved up and down ramp feet first. The MPP should always be moved up and down the ramp with the pull handle on the incline side (towards the MIRCS). <ol style="list-style-type: none">3. 2. With a person on each side of the MPP, position the MPP in front of the door opening as follows:<ol style="list-style-type: none">a. Position the swivel locks to the unlocked position.b. Unlock all four wheel brakes.c. Orient the MPP with the pull handle away from the door opening.d. Set all four wheel brakes.e. Adjust the height of MPP using the foot pedals, until the rollers are slightly below the bottom of the tray.4. Pull the QC pin, then slide the tray onto the MPP.5. Release the wheel brakes, then rotate the MPP until it is clear of the RSU door.6. Close the RSU door.
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5.7.18	MPP and Transfer Operations	<p>WARNING</p> <p>When moving the MPP up and down the ramps, there should be a person at each end. The tray must be properly secured to the MPP and the swivel locks must be engaged during movement.</p> <ol style="list-style-type: none"> 7. Adjust the MPP to waist height using the foot pedals. 8. Secure the tray to the MPP with six straps. 9. Open the vestibule door. 10. Position the MPP in front of the door opening with the pull handle on the incline side of the ramp. Do not move the MPP down the ramp at this time. 11. Align the casters with the ramp guide. 12. Position the swivel locks to the locked position.
5.7.19	MPP and Transfer Operations	<ol style="list-style-type: none"> 13. With personnel at each end of the MPP, move the MPP down the ramp. 14. When the MPP is at the base of the ramp, set all four wheel brakes. 15. Remove the four straps attached to the D-rings. 16. Transfer the remains onto or off of the tray ensuring the remains are oriented to travel up the ramp feet first. 17. Attach four straps through the D-rings and tighten. 18. With personnel firmly holding the MPP at both sides, release the wheel brakes. 19. Move the MPP up ramp through the vestibule door. 20. Once inside, position the swivel locks to the unlocked position and move the MPP into the processing area.

5.7.20	MPP and Transfer Operations	<p>WARNING</p> <p>The vestibule door should be kept closed unless active transfer operations are in process. Leaving the door open will prevent proper air circulation inside the work areas. This may reduce the effectiveness of the ECU and prevent it from maintaining the temperature set at the thermostat. Seek medical attention if illness occurs.</p> <ol style="list-style-type: none"> 21. Close the vestibule door. 22. Process the remains per unit authorized Mortuary Affairs Procedures. <p>CAUTION</p> <p>The remains pouch and straps must not extend past the sides of the tray when transferring in and out of the RSU. Failure to follow this precaution can result in tearing of the pouch or damage to the roller tracks.</p>
5.7.21	MPP and Transfer Operations	<ol style="list-style-type: none"> 23. Open the RSU door where the tray is to be placed. 24. With a person on each side of the MPP, position the MPP in front of the door opening as follows: <ol style="list-style-type: none"> a. Orient the MPP with the pull handle toward the RSU door opening. b. Set all four wheel brakes. c. Adjust the height of the MPP using the foot pedals until the tray is slightly above the rollers. 25. Remove the six straps. 26. Slide the tray into the RSU. 27. Insert the QC pin to secure the tray.

5.7.22	MPP and Transfer Operations	<p>28. Release the wheel brakes, then rotate the MPP until it is clear of the RSU door.</p> <p>29. Close the RSU door.</p> <p>NOTE Additional transfer operations can be performed as has been demonstrated. [Click here to learn how to remove the extension from the MPP] [Click here to the Shutdown MIRCS]</p>
5.7.22a	MPP and Transfer Operations	<p>30. Repeat steps 4 through 29 for additional transfers or proceed to step 31.</p> <p>31. If the extension was used, detach it from the MPP as follows:</p> <ol style="list-style-type: none"> a. Transfer six straps from the extension back to the MPP. b. Pull the QC pins out of the end legs. c. Remove the extension from the MPP. d. Insert the QC pins back into the end legs. e. Fold the end legs and side legs and secure with straps.
5.7.23	ECU Shutdown	<ol style="list-style-type: none"> 1. At the ECU thermostat, turn off heating or cooling as follows: <ol style="list-style-type: none"> a. Loosen the two captive screws, then open access window. b. Position the HEAT/OFF/COOL switch to OFF. c. Close the access window and secure it by finger-tightening the two captive screws. 2. At the ECU control enclosure, position the VENTILATION FANS switch to OFF.

5.7.23	RU Shutdown	<p>NOTE</p> <p>The RU can be left operating in engine mode or turned off completely as desired. High engine speed (ROAD) is only required during very high and low outside temperatures or when the RSU being opened and closed frequently. Operating the RU in low engine speed (CITY) will make the RU run quieter and reduce fuel usage.</p> <ol style="list-style-type: none"> 1. At the RU control enclosure, press ROAD key or CITY key as desired to switch to engine mode or position the I/O switch to O to turn the RU off. <p>CAUTION</p> <p>If the FUEL LEVEL switch is left in the ON position when the RU is shutdown the battery will lose its charge and the RU may not start the next time the MIRCS is used.</p> <ol style="list-style-type: none"> 2. Release two latches then open door (Figure 19, Item 4) RU enclosure. 3. Position FUEL LEVEL switch to OFF. 4. Close door and secure with two latches.
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5.7.24	Shut Down Water System	<p>CAUTION</p> <p>If temperatures are expected to drop below 33°F, the water system must either be drained or the necessary precautions must be performed as described in Operation In Cold (WP 0013). Failure to either properly drain the system or prepare for cold weather operation will cause freeze damage to system plumbing and components.</p> <p>NOTE</p> <p>If the MIRCS is only being shut down as part of daily operation and temperatures are not expected to go below 33°F, the water and waste systems do not need to be drained. If the MIRCS is going to be prepared for movement or freezing temperatures are expected, the water and waste systems need to be drained. [Click here to review the draining procedures]</p> <ol style="list-style-type: none"> 1. Verify the hot and cold levers on the sink faucet are closed. 2. Verify the lever on the utility hose faucet is closed.
5.7.25	Drain Water System	<ol style="list-style-type: none"> 1. Close the shutoff valve at the water source. 2. Disconnect the water hose at the water source. 3. Disconnect the water hoses at the external water pump. 4. Disconnect the water hose at the water port. 5. Roll up the water hoses and allow all residual water to drain out of the hoses. 6. Open the drain valve on the external water pump Y-strainer 7. Open the drain valve on the external water plumbing. 8. Open the hot and cold water levers on sink. 9. Open the utility hose diverter valve.

5.7.26	Drain Water System	10. Disconnect the utility hose and drain the water out as follows: a. Place the end of hose under drain grate. b. Unroll the hose and allow the water to drain out. c. Roll the hose back onto the hooks. Do not reconnect the hose.
5.7.27	Drain Water System	11. Open all inside water system valves as follows: a. Slide the water system access panel out of the shelving unit. b. Verify the drain hoses are inserted into the drain ports. c. Open the drain valve on the water plumbing. d. After all water has drained out of the water plumbing, close the drain valve. e. Open the drain valve on water heater. f. After all water has drained out of the water heater, close the drain valve. g. Slide the water system access panel back into the shelving unit.

5.7.28	Shut Down Waste System	<p>WARNING</p> <p>Wastewater generated during MA operations may contain chemical and/or biohazardous materials. When servicing waste containers, personnel must wear impermeable gloves and goggles for protection.</p> <p>The shutoff valve at inlet to the waste containers must be closed prior to disconnecting drain hose. Failure to close the valve may result in spilling of chemical or bio-hazardous wastewater, causing exposure to improperly-protected or unsuspecting personnel working nearby.</p> <p>CAUTION</p> <p>If temperatures are expected to drop below 33°F, the waste piping must be drained and the collection containers must be either emptied or placed in an area where they will not be exposed to freezing temperatures. Follow guidance provided in Operation in Cold (WP 0013). [Click to Review] Failure to either properly drain the system or prepare for cold weather operation will cause freeze damage to system piping and containers.</p>
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5.7.29	Shut Down Waste System	<p>NOTE This procedure should be followed when temperatures are expected to go below 33°F or if the MIRCS is being prepared for movement.</p> <ol style="list-style-type: none"> 1. Remove the waste containers at the main drain and platform drain as follows: <ol style="list-style-type: none"> a. Close the shutoff valve on the waste hose. <p>NOTE If waste container is full, it will be necessary to attach a second container to the drain hose to ensure that wastewater is completely drained from piping.</p> <ol style="list-style-type: none"> b. Observe the full indicator. If the container is completely full, a second container will need to be installed after the first container is removed to complete draining of the waste system.
5.7.30	Shut Down Waste System	<ol style="list-style-type: none"> c. Unthread the vent cap from the waste hose t-fitting. d. Unthread the full indicator from the waste container. e. Thread the full indicator onto top of the waste hose t-fitting. f. Thread the vent cap on the waste container. g. Disconnect the waste hose from the waste container. h. Install the cap on the waste container. i. Relocate the full waste container to the disposal or the collection area. j. Repeat the steps at the platform drain.

5.7.31	Shut Down Waste System	<p>2. If authorized, dispose of waste container contents as follows. Otherwise, collect waste containers to transport back to an approved bio-hazardous waste disposal facility.</p> <ol style="list-style-type: none"> a. Gently shake the waste containers for about 1 minute to allow bleach to mix with wastewater. b. Remove the caps and pour the contents into the approved disposal area. c. Reinstall the caps.
5.7.32	Turn Off Main Power	<p>NOTE</p> <p>When main power is removed, the emergency lights will come on for 5 minutes then automatically turn off.</p> <ol style="list-style-type: none"> 1. At the MA operation enclosure, turn off the interior lights using switches. 2. At the ECU control enclosure position the MAIN DISCONNECT switch to OFF. 3. Shutdown the MEP-804A generator (TM 9-6115-643-10) or remove external power as required.
5.8.1	Take Down Temporary Remains Shelters	<p>WARNING</p> <p>The MIRCS ramps, leveling jacks, RLD storage bag, work light storage bag, support storage bag, external water pump, and MPPs weigh over 45 lbs each. Two persons are required to carry these items. Ensure you avoid injury by lifting with your legs and not with your back.</p> <ol style="list-style-type: none"> 1. Ensure the inside of the shelter is empty and the zippers on all side flaps are closed. 2. If attached, disconnect any external ducting from interior ducts. 3. Untie and close the flaps. 4. Pull the stakes securing the guy ropes and shelter floor out of the ground.

5.8.2	Take Down Temporary Remains Shelters	NOTE Guy ropes may be removed from the shelter or left attached as desired. When collapsing and folding up the shelter, leave vents on the end walls open to release trapped air. <ol style="list-style-type: none">5. Place the stakes and guy ropes into the storage pocket.6. Fold-up the shelter as follows:<ol style="list-style-type: none">a. At the end wall where the storage pocket is located pull the shelter towards you while pushing the wall and floor material in between the support rods.b. Continue pulling the shelter towards you until the shelter is completely collapsed.7. Place the shelter into the carrying pouch.8. Fold the flap over and secure to carrying pouch.9. Repeat the steps to take down other temporary shelters if necessary.
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5.8.3	Take Down PA Work Space	<p>NOTE</p> <ol style="list-style-type: none">1. If installed, remove the extension from the MPP as follows:<ol style="list-style-type: none">a. Transfer the straps from the extension back onto the MPP.b. Pull the QC pins out of the legs.c. Remove the extension from the MPP.d. Insert the QC pins back into legs.e. Fold up the legs then secure them with the straps.2. Press the foot pedal and completely lower the MPP.3. Place the extension on the MPP and secure it with the six straps. <p>NOTE</p> <p>In order to quickly gain access to the MPPs and extension during rapid transfer operations, it is recommended that one or both MPPs and extension be stowed in the RSU. If all compartments in the RSU are in use, the MPPs and extensions can be properly stowed in the supply storage area. [Click here to learn how to secure the MPP and extension in RSU.]</p>
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5.8.4	Storing MPP and Extension in RSU	<ol style="list-style-type: none"> 1. Determine the lowest positions that the MPPs and extension can be stored. 2. Lift up on the latch and fully open the RSU door. 3. With a person on each side of the door opening, pull the QC pin then slide the tray out and place on the PA platform floor. 4. Remove the four straps attached to the D-rings. <p>CAUTION Never store the MPP on its side or upside down. Hydraulic fluid can seep out of the breather cap causing failure of the MPP to rise to its full height due to loss of fluid.</p> <ol style="list-style-type: none"> 5. Lifting with two people on each side, place the MPP with extension onto the tray. 6. Attach the four straps through the D-rings to secure the MPP and extension. 7. With a person on each side, align the bottom of tray with the rollers then slide the tray into the RSU. 8. Insert the QC pin to secure the tray. 9. Close the RSU door.
5.8.5	Take Down PA Work Space	<ol style="list-style-type: none"> 4. If used, remove the electrical boxes as follows: <ol style="list-style-type: none"> a. Unplug electrical cords from duplex receptacles. b. Pull the electrical cords through the loops in the ceiling. c. Roll up the electrical cords and place the electrical boxes in the work lights storage bag. 5. Take down and prepare all other MA equipment located in the PA for stowage.

5.8.6	Take Down AA Work Space	<ol style="list-style-type: none"> 1. Remove weapons from the weapons racks then pull racks off of vend wall. 2. Fold up the table and chairs. 3. If used, remove the electrical boxes as follows: <ol style="list-style-type: none"> a. Unplug the electrical cords from the duplex receptacles. b. Pull the electrical cords through the loops. c. Roll up the electrical cords and place the electrical boxes in the lights storage bag. 4. Take down and prepare all other MA equipment located in the AA for stowage.
5.8.7	Take Down Supply Storage Area Door and AA Partition	<ol style="list-style-type: none"> 1. Remove the supply area door as follows: <ol style="list-style-type: none"> a. Remove the strap from the door, then pull the QC pins and remove the track from the frame. b. Insert the QC pins back into the track. c. Roll the supply area door up on the track. d. Place the strap around the center of the supply area door to keep it from unrolling. 2. Detach the AA partition as follows: <ol style="list-style-type: none"> a. Close and secure the curtain door by fastening the three buckles. b. Separate the ceiling and wall flaps and pull the AA partition off of the AA wall. c. Slide the rod out of the AA partition. d. Fold up the AA partition.

5.8.8	Take Down Emergency/Blackout Lighting	<ol style="list-style-type: none"> 1. Remove the emergency/blackout lights as follows: <ol style="list-style-type: none"> a. Unthread and disconnect the light cables from the power connectors. b. Pull the cables through the loops. c. Remove the lights from the straps. d. Roll up the light cables and secure with the straps. 2. Place the emergency/blackout lights in the work lights storage bag.
5.8.9	Take Down Work Lighting	<ol style="list-style-type: none"> 1. Remove the work lights from AA, the PA, and vestibule as follows: <ol style="list-style-type: none"> a. Disconnect the power cord and extension cords from the electrical outlets. b. Disconnect the power cords from each other and the extension cords. c. Pull the power cords through the loops. d. Pull the work lights and power cords through the loops. e. Connect each power cord to its opposite end to keep the cords from tangling. 2. Remove the work light from the supply area as follows: <ol style="list-style-type: none"> a. Disconnect the plug from the electrical outlet. b. Pull the work light off of the clips. 3. Place the work lights and extension cords in the work lights storage bag.

5.8.10	Disconnect ECU Ducting	<ol style="list-style-type: none"> 1. Remove the ECU ducting as follows: <ol style="list-style-type: none"> a. Loosen the clamp, then pull the duct connector off of the inlet filter. b. Loosen the clamp, then pull the duct connector off of the ECU inlet port. Use a step aid to access the duct at the inlet port if needed. c. Install the protective cover onto the ECU inlet port. d. Remove the straps securing the duct to the corner fitting and support rod. Secure the straps to the duct so they do not get lost and are available for the next deployment. e. Slightly tighten the clamps to prevent them from sliding off of the duct connector and getting lost. f. Disconnect the strap and remove the inlet filter from the AA platform. g. Reconnect the strap. h. Place the duct with the straps and inlet filter inside on the AA platform.
5.8.11	Take Down Exterior End Wall Flaps	<ol style="list-style-type: none"> 1. At each corner of the AA and PA soft wall, pull the exterior flap off of the soft wall and frame. 2. Fold up exterior flaps and place on the AA platform.

5.8.12	Take Down Soft Wall Supports	<ol style="list-style-type: none"> 1. Remove the supports under the AA soft wall and PA soft wall as follows: <ol style="list-style-type: none"> a. Unfasten the straps securing each support. b. Lift up and rotate the front support then pull the front support out of the top support and the top support out of the receptacle. c. Repeat the steps for the remaining supports. <p>NOTE When placing the support rods in storage bag, staggering the rods at both ends will allow all accessories to fit easily inside the bag.</p> <ol style="list-style-type: none"> 2. Place the top supports and front supports in the supports storage bag. 3. Place the AA partition support rod, AA partition, supply area door, exterior flaps, and weapons racks in the supports storage bag.
5.8.13	Disconnect Waste Drain	<p>WARNING Wastewater generated during MA operations may contain chemical and/or bio-hazardous materials. When handling waste system hoses and containers, personnel must wear impermeable gloves and goggles for protection.</p> <ol style="list-style-type: none"> 1. Verify waste piping has been drained. If waste containers are still connected to the main drain port and/or PA platform drain port, properly drain the waste system (WP 0008). [Click to Review] 2. Disconnect the waste hose from the main drain port. 3. Disconnect the waste hose from the PA platform drain port.

<p>5.8.14</p>	<p>Disconnect Fuel Supply</p>	<p>WARNING Fuels are toxic. Wear eye/face and hand protection during fueling operations, avoiding contact with skin and clothes. Take care not to breathe vapors. If contact with eyes is made, immediately flush with clean water and get medical aid for eyes. If contact with clothing or skin is made, immediately remove contaminated clothing and clean skin with mild soap or cleanser and flush with clean water. Seek immediate medical attention if injury or illness occurs.</p> <p>CAUTION Always install dust plugs and caps on fuel connections. Dirty or contaminated fuel can cause failure of the generator, RU engine, and MIRCS fuel system components. If fuel hoses are not disconnected in the order listed in the following procedures, unnecessary fuel spillage will occur.</p>
<p>5.8.15</p>	<p>Disconnect Fuel Supply</p>	<ol style="list-style-type: none"> 1. Disconnect the fuel hose from the supply port. 2. Place the dust plug on the fuel hose and dust cap on the supply port. 3. Pull the fuel hose out from under the generator through the forklift pocket. 4. Lift up on the fuel hose and allow the fuel to drain into the generator. 5. Disconnect the fuel hose from the adapter. 6. Place the dust cap on the fuel hose and the dust plug on the adapter.

5.8.16	Disconnect Fuel Supply	<p>NOTE</p> <p>The adapter can be removed from the generator fuel connection or left on during transport.</p> <ol style="list-style-type: none"> 7. If desired, disconnect the adapter from the fuel port. 8. Install the dust cap on the fuel port. 9. Stow the fuel hose and adapter in the generator storage compartment. 10. If necessary, use a rag to wipe up any spilled fuel.
5.8.17	Disconnect Electrical Power	<p>WARNING</p> <p>Master power must be shut off before disconnecting the MIRCS power cable. Be careful not to come into contact with high-voltage connections. Whenever possible, keep one hand away from equipment to reduce the hazard of current flowing through the body's vital organs.</p> <ol style="list-style-type: none"> 1. Ensure the generator set or external power source is turned off. 2. Disconnect the dust cover from the dust cover. 3. Disconnect the pigtail or power cable from the electrical connector. 4. Install the dust cover onto the pigtail or power cable. 5. Install the dust cover onto the electrical connector.

5.8.18	Disconnect Electrical Power	<ol style="list-style-type: none">6. Disconnect the ground wire at the ground lug and grounding rod. Retighten the ground lug.7. Remove the grounding rod from earth.8. Place the ground wire and rod in the generator (TM 9-6115-644-10).9. Disconnect the water pump electrical cable from the ECU enclosure receptacle.10. Disconnect the water pump electrical cable from the external water pump.11. Roll up the water pump electrical cable, then secure the cable with the strap and place in the work light storage bag.
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5.8.19	Take Down Ramp Sections	<ol style="list-style-type: none"> 1. Separate the top ramp from the AA platform as follows: <ol style="list-style-type: none"> a. Flip the threshold over and place on the ramp. b. With a person on both sides, pull the QC pins separate the top ramp from the AA platform and carefully lower to the ground. c. Pull the QC pins and remove the connecting links from the top ramp. d. Insert the QC pins back into the connecting links. e. Place the connecting links in the RLD storage bag. <p>NOTE Make sure the ramps are placed on their sides before separating from each other. It is more difficult to perform this process with the ramps laying flat on the ground.</p> <ol style="list-style-type: none"> 2. If attached, separate the bottom ramp from the top ramp as follows: <ol style="list-style-type: none"> a. Position the ramps so they are resting on their sides. b. Pull the QC pins. c. With a person on each ends, pull the bottom ramp out of the top ramp. d. Pull the QC pins, reposition the tenons to the stowed position in the bottom of the top ramp, then insert the QC pins. 3. Remove the tenons from the RLD storage bag. 4. Insert the tenons into the stowed position in top of the bottom ramp. 5. Insert the QC pins to secure the tenons.
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5.8.20	Pack Supply Area	<ol style="list-style-type: none">1. Verify that all supplies and items that are to be stored on the shelving unit are in place.2. Install the cargo net onto the shelving unit as follows:<ol style="list-style-type: none">a. Starting at the top, feed the straps through the loops and back into the buckles.b. Starting at top on the AA side of the shelving unit (and working downward pull the straps tight.c. Starting at top on the PA side of the shelving unit and working downward pull the straps tight.3. Place the items in the supply storage area. <p>Refer to WP 0012 for a complete list of items stowed in the supply area.</p> <ol style="list-style-type: none">4. Install the cargo net to secure the accessories in the supply area as follows:<ol style="list-style-type: none">a. Lay the cargo net evenly over the accessories.b. Push in on the buckles and pull the straps out the buckles.c. Insert the straps through the slots in the transition plates.d. Insert the straps back into the buckles and pull the straps only enough to remove the slack. <p>Do not overtighten.</p>
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5.8.21	Take Down AA and PA Soft Walls	<ol style="list-style-type: none">1. Unzip the end walls and lay them flat.2. If opened, close the windows on the PA emergency door and vestibule door.3. Close and zip PA emergency door and vestibule door.4. Fold the threshold of each door under the door so it is not sticking out past the edge of the platform.5. With an operator positioned on each end of platform, apply tension to soft wall.6. Standing the outside of outer legs, pull the QC pins from the outer leg at each side of the soft wall. Then allow both sides of the soft wall to relax at the same time.7. Slide the outer legs downward. Then insert the QC pins to secure the outer leg to the inner leg.8. Ensure the soft wall is folded evenly and the edges of the soft wall are clear of the edges of platform.9. Repeat the steps to take down the PA soft wall.
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<p>5.8.22</p>	<p>Raise and Secure AA and PA Platforms</p>	<p>WARNING Never walk on the platforms once the platforms supports have been removed. If not operated properly, the platform may experience sudden and unexpected drops. Prior to raising the platform, verify all personnel are and remain clear.</p> <p>CAUTION Do not over pump the hydraulic system. There is a noticeable difference when the cylinders are moving and when they reach the end of their travel. When the pump handle movement is firm, stop pumping to prevent causing damage to system components or creating leaks.</p> <p>NOTE In order to remove tension and make it easier to remove support legs, the platform can be raised slightly.</p>
<p>5.8.23</p>	<p>Raise and Secure AA and PA Platforms</p>	<ol style="list-style-type: none"> 1. Remove the support legs from the AA platform as follows: <ol style="list-style-type: none"> a. Install the handle into the pump. b. Position the AA platform RAISE/LOWER lever to RAISE. c. Stroke the pump with the handle to lift the platform until the feet are slightly off the ground. d. Position the RAISE/LOWER lever to NULL. e. Pull the QC pins out of the fork supports. f. Remove the support legs from the fork supports. g. Insert the QC pins back into the fork supports.

5.8.24	<p>Raise and Secure AA and PA Platforms</p>	<ol style="list-style-type: none"> 2. Raise the AA platform as follows: <ol style="list-style-type: none"> a. Verify the RAISE/LOWER lever is positioned to NULL. b. Position the EXTEND/RETRACT lever to EXTEND. c. Stroke the pump with the handle until catch is completely extended. d. Holding on to the pump handle, position EXTEND/RETRACT lever to NULL. e. Position the RAISE/LOWER lever to RAISE. <p>WARNING If not operated properly, the platform may experience sudden and unexpected drops. Prior to raising platform, verify all personnel are and remain clear.</p> <p>CAUTION Never walk on the platforms after the support legs have been removed. The platform structure can be permanently bent in if it is overload while unsupported.</p> <p>NOTE When raising the platform make sure the soft wall is not sticking into the area were the bow folds into the notches on the ISO frame or it will be difficult to fully close the platform and secure it with the side locks.</p>
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5.8.25	Raise and Secure AA and PA Platforms	<ol style="list-style-type: none">3. Stroke the pump with the handle until the AA platform (is almost vertical and the handle is hard to push.4. Position the EXTEND/RETRACT lever to RETRACT. Leave the RAISE/LOWER lever in RAISE.5. Stroke the pump with the handle until the catch engages the AA platform and pulls the platform in tight. <p>WARNING If not operated properly, the platform may experience sudden and unexpected drops. Prior to raising the platform, verify all personnel are and remain clear.</p> <p>CAUTION The tip of side lock must be within opening on the receptacle on the platform. Do not attempt to tighten the side locks if they are not aligned. Forcing the side locks into the platform may damage the platform receptacles or bend the side locks.</p> <p>NOTE When tightening the side locks, stroking the pump slightly as the locks are rotated may reduce the amount of force needed to rotate the crank handle.</p>
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5.8.26	Raise and Secure AA and PA Platforms	<ol style="list-style-type: none">6. Remove the crank the handle from the tool box.7. Secure the AA platform as follows:<ol style="list-style-type: none">a. Insert the crank handle into the rear side lock and rotate in the LOCK direction until the pin is inserted into the receptacle.b. Insert the crank handle into the front side lock and rotate in the LOCK direction until the pin is inserted into the receptacle.c. Slightly stroke the pump with the handle to ensure the catch is fully retracted.d. Holding onto the pump handle, place the RAISE/LOWER lever and EXTEND/RETRACT lever back to NULL positions.8. Repeat the steps to remove the support leg and raise the PA platform.9. Stow the crank handle in the tool box.10. Stow the pump handle on the bracket ensuring the tip of the handle is seated in the hole in the frame.
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5.8.27	Raise and Secure AA and PA Platforms	CAUTION The feet on the support legs must be properly oriented when stowed. Platforms can be damaged if they are lowered with the support leg feet not correctly stowed. <ol style="list-style-type: none">11. Stow the support legs as follows:<ol style="list-style-type: none">a. Pull the QC pin securing the upper support leg to the lower support leg.b. Slide the lower support leg out of the upper support leg, then insert and slide the lower leg inside of the upper leg.c. Place the support leg on the mounting provisions with the feet of the bottom leg point up and the feet of the top leg pointing down.d. Align the holes in the upper leg and lower leg with the hole in the mounting provision. Then, insert the QC pin.e. Repeat the steps to stow the remaining support legs.
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5.8.28	Stow Generator and Generator Supports	<p>WARNING</p> <p>Personnel must remain clear of the area between the generator and the MIRCS rear mechanical wall during generator movement. Keep hands away from the rollers. Failure to follow this precaution may result in personnel becoming trapped between the generator and support structure, causing severe injury.</p> <p>CAUTION</p> <p>Care must be used when stowing the generator not to pinch or damage the electrical cable on the pigtail. Ensure the cable and connector are clear of all obstructions and pinch points as the generator is moved forward. Before sliding the generator into the rear mechanical area, ensure all access panels and doors on the generator are closed and all latches are folded in. Failure to follow this precaution will result in damage to the generator and ECU.</p>
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5.8.29	Stow Generator and Generator Supports	<ol style="list-style-type: none">1. Place the pigtail inside the rear mechanical area with the connector against the curbside wall.2. Pull the QC pin out of the generator and insert it into the generator support.3. Remove the straps securing the generator to the generator cable support and place them back on the tie down rings. Tuck the straps into the fork pockets on the generator.4. With personnel stationed at both sides of generator, push the generator back into the rear mechanical area until the generator contacts the bumpers.5. Pull the QC pins and pull the generator cable support off of the generator supports. Reinstall the QC pins.
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5.8.30	Stow Generator and Generator Supports	<ol style="list-style-type: none">6. Disconnect the generator supports from the frame as follows:<ol style="list-style-type: none">a. Hold the generator cable support out away from the generator supports.b. Remove the QC pins from the stabilizer bars.c. Pivot the stabilizer bars over and secure them to the supports with the QC pins.d. Lift up on the LH generator support and remove from the frame.e. Lift up on the RH generator support and remove from the frame.7. Stow the generator cable support as follows:<ol style="list-style-type: none">a. With a person on each side of the generator cable support, align the support with the channels on the frame.b. Insert the generator cable support into the mounting provisions, applying equal pressure at both ends.c. Ensure the cables are not sticking out past end of the frame.
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5.8.31	Stow Generator and Generator Supports	<ol style="list-style-type: none"> 8. Install the generator brace as follows: <ol style="list-style-type: none"> a. With a person on each end pull the QC pins. b. Lift up and insert the generator brace into the brackets. c. Insert the QC pins back into the generator brace and brackets one at a time. 9. Stow the generator supports under the frame as follows: <ol style="list-style-type: none"> a. Pull the QC pin. b. Flip the generator support over so that the stabilizer is pointing outboard. c. Mate the generator support with the angles then slide support forward as far as possible. d. Insert the QC pin through the frame and generator support. e. Repeat the steps for the second generator support
5.8.32	Stow Ramp	<p>WARNING When stowing the ramps be careful not to pinch fingers between the ramps and frame.</p> <ol style="list-style-type: none"> 1. Pull the QC pins from the generator cable support. 2. With a person at each side, lift and insert the top ramp over the pins. Then, lower ramp so that notches are captured by the generator cable support. 3. Insert the QC pins to secure the ramp to the generator cable support. 4. Repeat the steps to stow the bottom ramp.

5.8.33	Remove and Stow Leveling Jacks	<p>WARNING</p> <p>The MIRCS must be lowered evenly on all four corners at the same time. Placing excessive load on one corner can cause excessive stress to the leveling jack resulting in collapse of the jack. This may result in serious personal injury or death if you become trapped under the container.</p> <ol style="list-style-type: none"> 1. Lower the MIRCS to the ground as follows: <ol style="list-style-type: none"> a. With an operator at each corner, rotate the hand cranks until all corner fittings are contacting the ground. b. Continue rotating the hand cranks until the feet are no longer contacting the ground.
5.8.34	Remove and Stow Leveling Jacks	<ol style="list-style-type: none"> 2. Remove the leveling jack from each corner fitting as follows: <ol style="list-style-type: none"> a. Loosen the collar, then rotate handle to the UNLOCK position. b. Pull the jack outward until the twist lock is out of the corner fitting. c. Lift-up on the jack until the locking pin is clear of the keyway then remove from the ISO frame. d. Repeat the steps for the other three leveling jacks. 3. Remove the feet from the leveling jacks as follows: <ol style="list-style-type: none"> a. Flip the ring over and pull the locking pin out of the adjusting pin. b. Pull the adjusting pin out of the leg and foot then slide the foot out of the leg. c. Repeat the steps for the other three leveling jacks.

5.8.35	Remove and Stow Leveling Jacks	<p>4. Stow the feet as follows:</p> <ul style="list-style-type: none"> a. Insert a foot labeled "1 OR 3" into the shortest storage provision labeled "1". b. Insert the adjusting pin through the storage provision and foot. c. Insert the locking pins through the adjusting pin then flip the ring over. d. Repeat the steps to stow the other three feet into the storage provisions labeled "2, 3, and 4" in that order.
5.8.36	Remove and Stow Leveling Jacks	<p>5. Stow the ladder as follows:</p> <ul style="list-style-type: none"> a. Starting under the highest extended rung, push in on both latches to collapse the ladder one section at a time. b. Pull the QC pin securing the hold-down bracket to front retaining plate. c. Pivot the hold-down bracket forward then remove the bracket from the rear retaining plate. d. Place the ladder into the storage provisions. e. Install the hold-down bracket over ladder and insert tab into the rear retaining plate. f. Install the QC pin or padlock to secure the hold-down bracket to the front retaining plate.

5.8.37	Remove and Stow Leveling Jacks	<ol style="list-style-type: none">6. Stow the leveling jacks as follows:<ol style="list-style-type: none">a. Lift up on the jack and insert the locking pin into the keyway. Allow the jack to hang from the locking pin. Ensure the top of the jack does not stick out past the front of the ISO frame.b. Repeat the step to hang the other three jacks in the same manner.c. At the outboard jack, drop the twist locks into the holes in the brackets.d. Rotate the handles to the LOCK position with the handles pointing downward, then tighten the collars.e. At the inboard jacks, drop the twist locks into the holes in the brackets.f. Rotate the handles to the LOCK position with the handle pointing upward, then tighten the collars.
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5.9a	PREPARATION FOR STORAGE AND SHIPMENT	<p>For short-term (less than 3 months) storage or intra-theater shipment, follow PREPARATION FOR MOVEMENT (WP 0012). For long-term storage or intermodal shipment of the MIRCS as an ISO container, follow guidance provided below.</p> <p>NOTE</p> <p>In order to remove rollers, the MIRCS rear end must be lifted slightly to take the weight off of the rollers.</p> <ol style="list-style-type: none"> 1. Raise the MIRCS rear using roadside stowed the leveling jacks, following procedures in WP 0008. 2. Remove the container rollers as follows: <ol style="list-style-type: none"> a. Pull the clip out of the hitch pin. b. While holding the roller pull the hitch pin out of the support bracket. c. Remove the roller from between the support bracket then reinsert the hitch pin back into the support bracket. d. Reinsert the clip back into the hitch pin. e. Repeat steps a through e for the other roller.
5.9b	PREPARATION FOR STORAGE AND SHIPMENT	<ol style="list-style-type: none"> 3. Stow the container rollers as follows: <ol style="list-style-type: none"> a. Pull the clip out of the rod. b. Insert the rollers onto the rod. c. Reinsert the clip back into the rod to secure the rollers. 4. Stow the leveling jack feet, ladder and leveling jacks following procedures in WP 0008. <p>CAUTION</p> <p>The MIRCS lighting circuit contains leak paths that will drain the 12 volt battery. Always position the RU RUN/STOP switch to STOP during extensive periods of non-use to ensure the battery is ready for operation.</p> <ol style="list-style-type: none"> 5. Position the RUN/STOP switch to STOP.

5.9c	PREPARATION FOR STORAGE AND SHIPMENT	<p>6. Remove the RU exhaust extension and store in the operator tool box.</p> <p>7. Install the protective cover over the RU as follows:</p> <ol style="list-style-type: none"> a. Place the cover on top of the RU and unfold. b. Insert the straps through the loops on top, front, and sides of the RU. c. Slide the straps into the buckles, then evenly pull the straps tight. d. Fold the cover under the RU, then insert the straps through the buckles and tighten.
5.9d	PREPARATION FOR STORAGE AND SHIPMENT	<ol style="list-style-type: none"> 8. Remove the ramps and deploy the generator following procedures in WP 0008. 9. Ensure the cap is installed on the ECU outside the air duct. 10. Install the protective cover over the ECU as follows: <ol style="list-style-type: none"> a. Starting at the rear of the ECU insert the straps through the loops. b. At the front of the ECU, insert the straps through the loops. c. Slide the straps into the buckles then evenly pull straps tight. <ol style="list-style-type: none"> d. Fold the flaps over side of the ECU, then insert straps through buckles and tighten. 11. Stow the generator and ramps following the procedures in WP 0012.

<p>5.9.1</p>	<p>Sloped Terrain</p>	<p>The MIRCS must be operated on firm ground with a 6° slope or less. If the terrain requires that the MIRCS be set up on un-level ground, extra steps are required to ensure the leveling jacks and unit will be stable during use.</p> <p>Proper positioning of the prime mover and MIRCS is an important factor during uneven terrain set up. If the MIRCS is not properly oriented it will be difficult to properly deploy the platforms and install the ramp sections. In addition, the MIRCS should be positioned in a manner that allows rainwater to run away,. This will prevent rainwater from being a nuisance during MA operations.</p>
<p>5.9.2</p>	<p>Sloped Terrain</p>	<p>WARNING</p> <p>The MIRCS must be raised evenly on both corners at the same time. Placing excessive load on one corner can cause excessive stress to the leveling jack and resulting in the collapse of the jack. This may result in serious personal injury or death if you become trapped under the container.</p> <p>MIRCS ramps and leveling jacks weigh over 45 lbs each. Two persons are required to carry these items. Ensure you avoid injury by lifting with your legs and not with your back.</p> <p>1. Determine which are the two lowest corners.</p> <p>NOTE</p> <p>Leveling jacks will be used at the side jacking points of the two lowest corners to lift the MIRCS high enough to allow leveling jacks with extended feet to be installed at the front (normal) jacking points. When installing feet in leveling jacks that will attached to the side jacking points, the feet must be installed in a manner that will not cause interference with the feet that will be installed in the front jacking points.</p>

5.9.3	Sloped Terrain	<ol style="list-style-type: none"> 2. Attach the feet to the leveling jacks as follows: <ol style="list-style-type: none"> a. Insert the foot completely into the leg. b. Insert the adjusting pin through the leg and foot. c. Insert the locking pin through the adjusting pin, then flip the ring over. d. Repeat the steps for the other three leveling jacks.
5.9.4	Sloped Terrain	<ol style="list-style-type: none"> 3. Attach the leveling jacks to the lowest corners on the side jacking points as follows: <ol style="list-style-type: none"> a. Rotate the handle towards the LOWER direction until the leg is at its lowest position. b. Lift up and insert the locking pin into the keyway then the pivot jack downward to insert the twist lock into the corner fitting. c. Rotate the handle to the LOCK position, then tighten collar. d. Repeat the steps for the leveling jack at the second lowest position. 4. With an operator stationed at both corners, raise the MIRCS as follows: <ol style="list-style-type: none"> a. Rotate the handles until the feet on both jacks are contacting the ground. b. Together, raise the MIRCS until the bubble levels are within indicator marks.

5.9.5	Sloped Terrain	<ol style="list-style-type: none"> 5. At the lowest corners, attach a second set of leveling jacks to the normal jacking points as follows: <ol style="list-style-type: none"> a. Rotate the handle towards the LOWER direction until the leg is at its lowest position. b. Lift up and insert the locking pin into keyway, then the pivot jack downward to insert the twist lock into the corner fitting. c. Rotate the handle to the LOCK position, then tighten the collar. d. Repeat the steps for the second leveling jack.
5.9.6	Sloped Terrain	<ol style="list-style-type: none"> 6. Drop the leg down on the lowest leveling jack as follows: <ol style="list-style-type: none"> a. Flip the ring over and pull the locking pin out of the adjusting pin. b. Pull the adjusting pin out of the foot and allow the leg to drop down. c. Continue to evenly raise both side leveling jacks until the adjusting pin can be inserted back into the drop down leg. d. Insert the adjusting pin through the leg and foot. e. Insert the locking pin through the adjusting pin, then the flip ring over. 7. Determine if the jack at second lowest point needs to have its drop down leg lowered. If so, repeat the steps for the second position. 8. Rotate the handles on the jacks until the original jacks are slightly off the ground.

5.9.7	Sloped Terrain	<ol style="list-style-type: none">9. Remove the two leveling jacks from the side jacking points as follows:<ol style="list-style-type: none">a. Loosen the collar, then rotate the handle to the UNLOCK position.b. Pull the jack outward until the twist lock is out of the corner fitting.c. Lift up on the jack until the locking pin is clear of the keyway.d. Repeat the steps for the second leveling jack.10. Remove, reorient, and reinstall the feet into the leveling jacks as follows:<ol style="list-style-type: none">a. Flip the ring over and pull the locking pin out of the adjusting pin.b. Pull the adjusting pin out of the leg and foot then slide the foot out of the leg.c. Properly orient the foot then slide the foot back into the leg.d. Insert the adjusting pin through the leg and foot.e. Insert the locking pin through the adjusting pin then flip the ring over.f. Repeat the steps for the other leveling jack.
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5.9.8	Sloped Terrain	<ol style="list-style-type: none">11. Attach the leveling jacks to the normal jacking points at the two highest corners as follows:<ol style="list-style-type: none">a. Rotate handle towards the LOWER direction until leg is at its lowest position.b. Lift up and insert locking pin into keyway then pivot jack downward to insert twist lock into corner fitting.c. Rotate the handle to the LOCK position, then tighten the collar.d. Repeat the steps for the second leveling jack.12. With an operator stationed at all four corners, level the MIRCS as follows:<ol style="list-style-type: none">a. Rotate the handles until the bubble levels are within the indicator marks.b. Together, raise the MIRCS until the waste drain port is about 14 inches off the ground.c. Make the final height adjustment and verify the bubble levels are within the indicator marks.
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<p>5.9.9</p>	<p>Operation in Cold (0°F or above)</p>	<p>MIRCS can be operated in conditions down to -25°F. This covers operation down to 0°F. Operations below 0°F are covered in Operations in Extreme Cold. When temperatures are expected to drop below 33°F and the MIRCS is set-up but not operating, the water system and waste collection system must be drained following the guidance provided in Daily Operation (WP 0010). [Click to Review]</p> <p>When the MIRCS is operating at temperatures below 33°F special care must be taken to prevent freeze damage to the water system and waste system. Water and waste system piping imbedded into the ISO frame contains heating elements that will automatically turn on to warm up the piping. The external portions of the water system piping, external water pump, and supply hoses must have heat cables wrapped around them. These cables can be connected to the generator utility receptacle or the ECU enclosure GFCI receptacle.</p>
<p>5.9.10</p>	<p>Operation in Cold (0°F or above)</p>	<p>The wastewater being collected in the waste containers will be above 33°F as it is flowing towards the containers. Once the water is in the container, it will freeze. This will not cause any problems for MIRCS operation provided that the containers are changed frequently enough that the wastewater does not backup above the container connection port into the drain hose. When containers are removed from the waste drain hose, they can be capped and brought into the MIRCS to thaw out and then disposed of per the authorized disposal process.</p> <p>The RU can be operated in engine mode or standby mode down to 0°F.</p>

5.9.11	Operation in Extreme Cold	<p>Extreme cold (-1°F to -25 °F) will cause cables and hoses to crack and break. Care must be taken when handling electrical cables. Extreme cold weather can cause insulation material on electrical wire to crack, causing short circuits. Water hoses, air ducts, and the materials that are used in the soft walls can also become hard, brittle, and easily damaged. When setting up for lengthy periods when temperatures are expected to be below 0°F, place the MIRCS in a sheltered area out of the wind. Do not allow ice and snow to build up on the ISO frame roof, soft walls, ramps, top of RU, or top of generator. Place a footing of planks or brush under leveling jacks, support legs, and lower ramp to keep them from freezing to the ground.</p>
5.9.12	Operation in Extreme Cold	<p>In extreme cold, the RU should be operated in engine mode. This will allow full power to be available to the ECU electric heaters as well as the water heater and piping heaters. The ECU AUXILIARY HEAT switch should be in the ON position. Use of all doors and windows should be kept to a minimum. It is recommended that 5-gallon containers of water be stored in the MIRCS to keep them from freezing and water usage be limited to the amount that can be stored inside.</p>

5.9.13	Storage in Extreme Cold	<p>Prior to placing the MIRCS into storage the water system and waste collection system must be drained following the guidance provided in Daily Operation (WP 0010). [Click to Review] This will prevent freeze damage to the piping and components in the water system and waste system. Even if the temperatures are not currently below 33°F, it is possible that the temperatures will drop that low before the MIRCS is used again.</p> <p>Planks should be placed under the ISO corners. Do not allow ice and snow to build up on the ISO frame roof. Install the protective cover over the RU (WP 0001). [Click to Review Cover Installation]</p>
5.9.14	Operation in Extreme Heat	<p>At temperatures above 100°F, the RU should be operated in standby mode when possible to avoid running the engine and generating more heat. Use of all doors and windows should be kept to a minimum.</p> <p>The water system does not cool. The minimum water temperature will be at or slightly below the water temperature at the source.</p>
5.9.15	Operation in Sandy and Dusty Areas	<p>When operating in sandy or dusty areas, perform Monthly PMCS weekly, Quarterly PMCS monthly, and Semi-Annual PMCS quarterly. Keep use of all doors and windows to a minimum. Make sure the ECU and RU electrical enclosures are kept closed.</p>
5.9.16	Operation in High Wind	<p>Keep all loose objects secured or stowed. Install side guy ropes on temporary remains holding shelters. Place sand bags over the stakes to keep them from pulling out of the ground.</p>

5.9.17	Operation in Different Altitudes	The MIRCS can be operated at altitudes up to 7,500 feet. At this altitude, engine performance of the generator requires it to be de-rated to 13.5 kW. This may require the RU to be operated in engine mode. RU Engine performance at higher altitudes will also drop off slightly. Since temperatures at higher altitudes are normally not above 90°F, there should be no drop off in refrigeration performance under these conditions.
5.9.18	Operation in Rain	When rain is expected, a drain trench should be dug around the MIRCS' outside perimeter to collect and drain the water away. Watch for water collecting on the tops of the soft walls. Periodically push up on the ceiling inside each soft wall to drain the water. Make sure the door bottoms are flipped outward. Make sure all end wall and door flaps are completely extended and secure. Make sure the cable boot is closed off tight. Make sure the exhaust pipes on the RU and generator are oriented to prevent rain from entering. Make sure the ECU and RU electrical enclosures are kept closed. If the MIRCS is not in use, do not leave it set up. Place it in the ready-for transport configuration (WP 0012). Slide the generator back to its stowed position.
5.9.19	Operation in Freezing Rain and Snow	Do not allow ice and snow to build up on the ISO frame roof, soft walls, ramps, top of RU, or top of generator. Place a footing of planks or brush under leveling jacks, support legs, and lower ramp. If the MIRCS is not in use, do not leave it set up. Place it in the ready-for transport configuration (WP 0012). Slide the generator back to its stowed position.

5.11.1	Off-HEMTT Rapid Loading	<p>Rapid loading operations can be conducted using any of the following methods:</p> <p>Off-HEMTT Rapid Loading consists of:</p> <ul style="list-style-type: none"> • Lowering the MIRCS from the HEMTT at the collection point. • Deploying the PA platform and soft wall. • Attaching the ramp(s). • Transferring remains as required using the MPP. • Removing and stowing the ramps. • Lowering the PA soft wall and raising the PA platform. • Lifting the MIRCS back onto the HEMTT. <p>This method is the safest way to perform rapid loading operations and is fairly rapid (5-10 minutes between arrival at site and the start of transfer operations). This operation can be conducted with two soldiers. To use this method, the HEMTT arm must be operational and the terrain at the collection point must be flat enough and have enough space to conduct the MIRCS lowering and raising operation.</p>
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<p>5.11.2</p>	<p>On-HEMTT Rapid Loading</p>	<p>On-HEMTT Rapid Loading using the RLD consists of:</p> <ul style="list-style-type: none"> • Deploying the PA platform and soft wall. • Attaching the ramp(s) and RLD. • Transferring remains as required using the MPP and RLD. • Removing and stowing the ramps and RLD. • Lowering the PA soft wall and raising the PA platform. <p>This method is safe, however it is the slowest (15-20 minutes between arrival at site and start of transfer operations). This is due to the added inefficiencies of working five feet in the air and using the ladder to access the PA platform and ramps making this operation slower and more cumbersome than the Off-HEMTT method. This operation can be conducted with two soldiers.</p>
<p>5.11.3</p>	<p>On-HEMTT Real World Rapid Loading</p>	<p>On-HEMTT Real World Rapid Loading consists of:</p> <ul style="list-style-type: none"> • Deploying the PA platform and soft wall. • Transferring remains as required using old-fashion raising and lowering. • Lowering the PA soft wall and raising the PA platform. <p>This method is the safe provided that there are at least four soldiers present and proper lifting techniques are used. This method is the simplest and fastest (less than 5 minutes between arrival at site and the start of transfer operations).</p>

5.11.4	Pre-Transport Check and RU Startup	WARNING The MIRCS ramps and leveling jacks weigh over 45 lbs each. Two persons are required to carry these items. Ensure you avoid injury by lifting with your legs and not with your back. Operating personnel must be familiar with system operation, warnings, and emergency procedures prior to operating the MIRCS. NOTE Prior to transporting the MIRCS or starting the RU, all Before PMCS procedures for transport mode of operation should be completed. It is recommended that the RU be turned on before departing to the transfer location in order to precondition the inside of the RSU to the proper temperature.
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5.11.5	<p>Pre-Transport Check and RU Startup</p>	<p>NOTE Before performing a collection mission, always start the RU so that the RSU internal temperature is at 34°F when remains are loaded. Before the MIRCS is set for transport, you are advised to perform a pre-transport check:</p> <ol style="list-style-type: none"> 1. Perform BEFORE Transport Mode PMCS procedure, Items 1 through 8 (WP 0023). [Click to Review] 2. At the RU Control Enclosure, position the I/O switch to I. 3. Press the ROAD key. <p>NOTE After power is applied to the RU, there is a 30-second delay before the RU attempts to start. After starting, the RU should run in heat mode for 45 seconds. It will then switch to cool mode if the RSU temperature is below the set point, or remain in heat mode if the outside temperature is above the set point.</p> <ol style="list-style-type: none"> 4. After the 30-second delay, verify engine starts. 5. Observe display. It should read a set point of 34°F and show the RU operating in heating mode. 6. Perform DURING Transport Mode PMCS procedure, Item 9 (WP0023). [Click to Review]
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5.11.6		<ol style="list-style-type: none">1. For equipment access, remove leveling jacks from the front storage area as follows:<ol style="list-style-type: none">a. Unthread the collar a few turns then rotate the handle to the UNLOCK position on each jack.b. Pull each jack outward until the twist lock is clear of the bracket .c. Lift the jack upward until the locking pin is clear of the keyway then pivot the jack out of keyway.d. Repeat the steps for other three leveling jacks.2. Remove the ladder from the front storage area as follows:<ol style="list-style-type: none">a. Remove the QC pin securing the hold-down bracket to the retaining plate .b. Pivot the hold-down bracket forward then remove the bracket from the retaining plate.c. Remove the ladder from the storage area.
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5.11.7	Ladder Access and Setup	<p>WARNING</p> <p>Always extend the ladder from the bottom up. Keep hands and fingers away from sliding points on the ladder sections when opening and closing. Never climb on the ladder unless locking devices are properly engaged.</p> <ol style="list-style-type: none">3. Extend the ladder as follows:<ol style="list-style-type: none">a. Place the foot on bottom rung and lift to separate it from next higher rung until locks are engaged.b. Continue extending the ladder until desired height is achieved. <p>WARNING</p> <p>Always make sure the ladder is resting on and supported by firm ground. Always keep the ladder rungs dry and free of dirt. Do not over-reach. Move the ladder instead. Keep body centered between the side rails. Never allow more than one person on the ladder at a time and ensure a spotter is available.</p> <ol style="list-style-type: none">4. Use the ladder as required.
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5.11.8	Deploy PA Platform	<p>WARNING</p> <p>If not operated properly, the platform may experience sudden and unexpected drops. Prior to lowering the platform verify all personnel are and remain clear.</p> <p>CAUTION</p> <p>The platform support legs must be removed from the ISO frame prior to lowering the PA platform. Attempting to lower the platform without first removing the legs will damage the platform and legs.</p> <ol style="list-style-type: none">1. Remove the two platform support legs as follows:<ol style="list-style-type: none">a. Pull the QC pin out of the support leg and mounting pad.b. Slide the support leg out of the stowage bracket.c. Insert the QC pin back into the support leg then set the support leg aside for later installation.d. Repeat the steps for the second support leg.
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5.11.9	Deploy PA Platform	<ol style="list-style-type: none"> 2. Unlock the PA platform as follows: <ol style="list-style-type: none"> a. Place the EXTEND/RETRACT lever in the RETRACT position. b. Place the RAISE/LOWER lever in the RAISE position. c. Install the handle into the pump. d. Stroke the pump with handle slightly to ensure the PA platform is completely raised. e. Place the EXTEND/RETRACT lever and the RAISE/LOWER lever to NULL. f. Verify that personnel are clear of PA platform and there are no obstructions that would prevent complete lowering of platform. g. Remove the crank handle from the operator tool box. h. Insert the crank handle into the rear side lock and rotate in the UNLOCK direction until the pin is completely retracted into the beam. i. Repeat the step at the front side lock. <p>WARNING Ensure personnel are clear before lowering the PA Platform.</p> <p>CAUTION Side locks must be retracted and catch extended prior to lowering the platform. Attempting to lower the platform without first unlocking side locks and extending catch may cause damage to the side locks, catch, platform, and hydraulic system components.</p> <p>NOTE During the platform lowering operation downward movement of the platform can be stopped at any time by placing the RAISE/LOWER lever in NULL position.</p>
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5.11.10	Deploy PA Platform	<p>3. Lower the PA platform as follows:</p> <ol style="list-style-type: none"> a. Position the EXTEND/RETRACT lever to EXTEND. b. Operate the pump with the handle until the catch is fully extended. c. Position the EXTEND/RETRACT lever to NULL. d. Position the RAISE/LOWER lever to LOWER. e. The platform will begin lowering under its own weight. If necessary, pull slightly on the sides of the platform until gravity takes effect. f. Allow the PA platform to lower until the cables are tight. g. Place the RAISE/LOWER lever back to NULL position. h. Remove and stow the pump handle. <p>WARNING Never walk on the platforms until they are properly supported.</p>
5.11.11	Deploy PA Platform	<p>4. Install the support legs to support the PA platform as follows:</p> <ol style="list-style-type: none"> a. Pull the QC pin out of the fork support on the edge of the PA platform. b. Mate the upper support leg with the fork support, then insert the QC pin. c. Pivot the foot downward so that it will rest flat on the ground. d. Pull the QC pin out of the upper leg then slide the lower leg down until the foot is contacting the ground. e. Insert the QC pin in one of the four alignment holes to secure the upper leg to the lower leg. f. Repeat the steps for the second support leg.

5.11.12	Deploy PA Soft Wall	<ol style="list-style-type: none">1. Place the ladder against the rear edge of the PA platform to gain access onto the platform.2. With an operator positioned on each end of the platform, apply tension to the soft wall as follows:<ol style="list-style-type: none">a. At each side of soft wall, hold the outer supports and pull the QC pins.b. Push up and out on the outer supports to expand—but not completely tension—the soft wall.c. Reinsert the QC pins in any one of the four alignment holes.d. Working together at either end, pull the QC pin, push up on the outer support to apply tension to the soft wall, and reinsert the pin.e. Repeat the tensioning step at other end of the soft wall.3. Push the end walls out of the way or partially zip them to keep them out of the way during transfer operations.4. Unzip the door then flip the door up onto the roof of the soft wall.
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5.11.13	Remove Ramp and RLD from Storage	<p>WARNING</p> <p>To ensure personnel can safely move the mobile processing platform on the ramp with minimal effort, and to prevent accidental tipping of the mobile processing platform, it is important that both ramp sections and the RLD be used during rapid transfer operations.</p> <ol style="list-style-type: none"> 1. Remove the RLD from the supply storage area or RSU and place it on the ground near the PA platform. 2. Remove the top ramp and bottom ramp as follows: <ol style="list-style-type: none"> a. Pull the QC pins out of the ramps and generator cable support. b. Lift up on the top ramp until the notch clears support then remove the ramp and set aside for later assembly. c. Repeat the step for the bottom ramp.
5.11.14	Assemble and Attach Ramp and RLD Sections	<ol style="list-style-type: none"> 1. Unzip the RLD storage bag then remove the following: <ol style="list-style-type: none"> a. Left-hand ramp connecting link b. Right-hand ramp connecting link c. Left-hand RLD section d. Right-hand RLD section e. Winch mounting plate f. Sling

5.11.15	Assemble and Attach Ramp and RLD Sections	<ol style="list-style-type: none">2. Attach connecting links to the top ramp as follows:<ol style="list-style-type: none">a. Pull the QC pin out of the left-hand connecting link.b. Insert the left-hand connecting link into the top ramp.c. Insert the QC pin to secure the connecting link to the top ramp.d. Repeat the steps to attach the right-hand connecting link.3. Attach the bottom ramp to the top ramp as follows:<ol style="list-style-type: none">a. Pull the QC pins out of the bottom ramp and remove the tenons.b. Pull the QC pins out of the top ramp, slide the tenons down about halfway to the center position, then reinsert the QC pin to secure the tenons to the ramp. <p>NOTE Make sure the ramps are placed on their sides before attaching them to each other. It is more difficult to perform this process with the ramps laying flat on the ground.</p>
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<p>5.11.16</p>	<p>Assemble and Attach Ramp and RLD Sections</p>	<ul style="list-style-type: none"> c. Position the ramps so they are resting on their sides. d. Align the tenons with bottom ramp and slide the bottom ramp into the top ramp. e. Reinsert the QC pins to secure the bottom ramp to the top ramp. 4. Attach the top ramp to the PA platform as follows: <ul style="list-style-type: none"> a. Pull the QC pins out of the connecting links. b. With a person on each side, mate the top ramp to the PA platform and secure it with the QC pins. c. Flip the threshold over the PA platform. 5. Attach the RLD sections to the bottom ramp as follows: <ul style="list-style-type: none"> a. With a person on each side of the bottom ramp, pull the QC pins out of the ramp.
<p>5.11.17</p>	<p>Assemble and Attach Ramp and RLD Sections</p>	<p>WARNING During rapid loading, the ramp and RLD are for MPP use only. Never walk on the ramp or RLD when installed.</p> <ul style="list-style-type: none"> b. Lift up on the bottom ramp, insert the tenons out about halfway to center position, then reinsert the QC pins to secure the tenons to the ramp. c. Pull the QC pins out of the RLD sections. d. Slide the RLD sections into the tenons, then reinsert the QC pins to secure the RLD sections to the bottom ramp. e. Pull the QC pins out of the RLD sections. f. Pivot the cross braces over and into the opposite RLD section. g. Reinsert the QC pins to secure the cross braces to the RLD sections.

5.11.18	Assemble and Attach Ramp and RLD Sections	<ol style="list-style-type: none">6. Attach the winch bracket to the top ramp as follows:<ol style="list-style-type: none">a. Pull the QC pins out of the winch bracket .b. With a person on each side of top ramp, mate the winch bracket to ramp then insert QC pins.c. Pull the hair pin out of the winch shaft.d. Install the crank handle onto the winch shaft then secure it with the hair pin.e. Position the latch halfway between WIND and UNWIND to allow the strap to be pulled out of the winch.f. Route the strap through the opening in the top ramp.
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<p>5.11.19</p>	<p>Transfer Operations – General Information</p>	<p>NOTE Remains should always be loaded into the RSU from bottom to top and from left to right. Only use the top row after the bottom three rows are filled. When transferring remains into or out of the top row of the RSU it will be necessary to use the MPP extension. [Click to Review the MPP Extension Installation]</p> <p>WARNING Do not position hands between the tray and MPP frame. Failure to keep hands clear may result in fingers being pinched or crushed.</p> <p>NOTE Lighting is provided for nighttime transfer operations above and in front of each RSU door. The WORK LIGHTS switch on the RU control enclosure controls operation of these lights. When the switch is lifted and released, the lights will stay on for 10 minutes. If additional time is required, the switch can be lifted and released every 10 minutes as needed.</p> <ol style="list-style-type: none"> 1. Remove the MPP and MPP extension from the supply storage area or RSU if needed.
<p>5.11.20</p>	<p>Transfer Operations – General Loading Information</p>	<ol style="list-style-type: none"> 2. Determine the location in the RSU where the remains will be transferred. <p>NOTE Remains will be transferred into the RSU feet first and removed head first. In order to maintain the correct orientation, remains will be moved up and down ramp feet first. The MPP should always be moved up and down the ramp with the pull handle on the incline side (towards the MIRCS).</p>

<p>5.11.21</p>	<p>Transfer Operations - Transfer Tray from RSU to MPP</p>	<p>3. Fully open the RSU door.</p> <p>4. With a person on each side of MPP, position the MPP in front of the RSU door opening as follows:</p> <ul style="list-style-type: none"> a. Position the swivel locks to the unlocked position. b. Unlock all four wheel brakes. c. Orient the MPP with the pull handle towards the RSU door opening. d. Set all four wheel brakes. e. Adjust height of the MPP using the foot pedals, until the rollers are slightly below the bottom of tray
<p>5.11.22</p>	<p>Transfer Operations - Moving MPP Up and Down</p>	<p>5. Pull the QC pin then slide the tray onto the MPP.</p> <p>6. Release the wheel brakes then rotate the MPP until it is clear of the RSU door.</p> <p>7. Close the RSU door.</p> <p>CAUTION</p> <p>To ensure proper handling, the tray must be properly secured to the MPP and the swivel locks must be engaged during movement. In addition, personnel must securely hold the winch handle while the MPP is moved down the ramp. Failure to follow this precaution may cause accidental sliding of the tray or tipping of the MPP.</p> <p>8. Secure the tray to the MPP with the six straps.</p> <p>9. Position the MPP in front of the door opening so that the pull handle will be away from the incline side of the ramp. Do not move the MPP down the ramp at this time.</p> <p>10. With the wheels pointing toward each other, position all four swivel locks to the locked position.</p> <p>11. Attach the sling to the MPP attaching points.</p>

5.11.23	Moving MPP Up and Down	<p>. Attach the sling to the winch strap.</p> <ol style="list-style-type: none">13. Adjust the MPP to the lowest height using the foot pedals.14. Flip the latch on the winch to the WIND direction.15. Wind the winch to remove all slack from the strap, taking care not to let hook end of the strap go back through the hole in the top ramp.16. With personnel at each side of the MPP, move the MPP down the ramp only far enough to align and engage the caster with the ramp guide.17. While holding the handle securely, flip the latch to the UNWIND direction.18. Slowly guide the MPP down the incline until the sling and strap are carrying the weight of the MPP.19. Slowly unwind the strap while guiding the MPP down the incline. Ensure the caster does not get out of alignment as it passes from the top ramp to the bottom ramp to the RLD sections.
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5.11.24	Moving MPP Up and Down	<p>20. When the MPP is at the base of the RLD sections, flip the latch to the WIND direction.</p> <ol style="list-style-type: none"> 21. Remove the four straps from one side of the D-rings. 22. Transfer the remains onto or off of the tray. 23. Attach the four straps through the D-rings and tighten. 24. Ensure the caster is aligned with the RLD guide, then begin winding the strap and moving the MPP up the incline. 25. Slowly wind the strap while guiding the MPP up the incline. Ensure the caster does not get out of alignment as it passes from the RLD sections to the bottom ramp to the top ramp. <p>CAUTION</p> <p>When moving the MPP, travel up the RLD and ramp to ensure the MPP wheels do not get hung up when transitioning from one section to another.</p> <p>26. Once the MPP is raised as far as the strap will allow, grasp the pull handle and firmly hold the MPP from the inside door opening.</p>
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5.11.25	Transferring Tray from MPP to RSU	<p>27. Flip the latch to the UNWIND direction then pull the MPP completely onto the PA platform.</p> <p>28. Once inside, set all four wheel brakes.</p> <p>29. Position the swivel locks to the unlocked position</p> <p>30. Disconnect the strap from the sling.</p> <p>31. Disconnect the sling from the MPP attaching points.</p> <p>CAUTION</p> <p>Verify the remains pouch and straps and all personal effects are confined inside of the tray to prevent them from tangling and hanging up on the roller tracks when sliding the tray back out of the RSU.</p> <p>32. Open the RSU door where the tray is to be placed</p>
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5.11.26	Transferring Tray from MPP to RSU	<p>33. With a person on each side of MPP, position the MPP in front of the door opening as follows:</p> <ol style="list-style-type: none">a. Release all four wheel brakes.b. Orient the MPP with pull the handle towards the RSU door opening.c. Set all four wheel brakes.d. Adjust the height of the MPP using the foot pedals until the bottom of the tray is slightly above the rollers. <p>34. Unfasten the six straps from the tray.</p> <ol style="list-style-type: none">35. Slide the tray into the RSU.36. Insert the QC pin to secure the tray.37. Release the wheel brakes then rotate the MPP until it is clear of the RSU door.38. Close the RSU door. <p>NOTE Additional transfer operations can be performed as demonstrated following the RSU load plan. [Click to Repeat the Transfer Operations] [Click to Complete the Rapid Loading Operations]</p>
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5.11.27	Stowing Extension and MPP	<p>39. If extension was used, detach from the MPP as follows. Otherwise proceed to the Take Down Ramp and RLD Sections.</p> <ol style="list-style-type: none"> a. Remove the straps from extension and reattach it to the MPP. b. Pull the QC pins out of the end legs. c. Remove the extension from the MPP. d. Insert the QC pins back into the end legs. e. Fold the end legs and side legs and secure with the straps. <p>CAUTION Never store the MPP on its side or upside down. Hydraulic fluid can seep out of the breather cap causing failure of the MPP to rise to its full height due to loss of fluid.</p> <p>40. Stow the MPP and extension back in the supply storage area or RSU.</p>
5.11.28	Take Down Ramp and RLD Sections	<ol style="list-style-type: none"> 1. Remove the winch bracket from the top ramp as follows: <ol style="list-style-type: none"> a. Disconnect the sling from the strap. b. Pull the strap through opening in the top ramp. c. Position the latch to the WIND direction, then wind the strap onto the winch. d. Pull the hair pin out of the crank handle. e. Remove the crank handle from the winch shaft, then reinsert the hairpin into the shaft. f. With a person on each side of the top ramp pull the QC pins then lower the winch bracket from the ramp. g. Insert the QC pins into the winch bracket.

5.11.29	Take Down Ramp and RLD Sections	<ol style="list-style-type: none"> 2. Separate the RLD sections from the bottom ramp as follows: <ol style="list-style-type: none"> a. Pull the QC pins securing the cross braces out of the RLD sections. b. Pivot the cross braces over and into the opposite RLD section. c. Reinsert the QC pins to secure the cross braces to the RLD sections. d. With a person on each side, pull the QC pins out of the RLD sections. e. Lift up on the bottom ramp, then slide the RLD sections out of tenons. f. Reinsert the QC pins back into the RLD sections.
5.11.30	Take Down Ramp and RLD Sections	<ol style="list-style-type: none"> 3. Separate the top ramp from the PA platform as follows: <ol style="list-style-type: none"> a. Flip the threshold over and place on the ramp. b. With a person on both sides, pull the QC pins and separate the top ramp from the PA platform. <p>NOTE Make sure the ramps are placed on their sides before separating them from each other. It is more difficult to perform this process with the ramps laying flat on the ground.</p> <ol style="list-style-type: none"> c. Position the ramps so they are resting on their sides. d. Pull the QC pins and remove the connecting links from the top ramp. e. Insert the QC pins back into the connecting links. f. Set aside the connecting links for later storage.

5.11.31	Take Down Ramp and RLD Sections	<ol style="list-style-type: none"> 4. Separate the bottom ramp from the top ramp as follows: <ol style="list-style-type: none"> a. Pull the QC pins. b. With a person on both ends pull the bottom ramp out of the top ramp. c. Pull the QC pins, reposition tenons to stowed position in bottom of top ramp, then insert QC pins. d. Pull the QC pins, remove the tenons from end labeled "TOP" of the bottom ramp, then insert the QC pins into the side holes on the ramp. e. Insert the tenons, into the stowed position in the end labeled "BOTTOM" of the bottom ramp, then insert the QC pins. 5. Place the following into the RLD storage bag and zip the bag closed: <ol style="list-style-type: none"> a. Left-hand ramp connecting link b. Right-hand ramp connecting link c. Left hand RLD section d. Right hand RLD section e. Winch mounting plate f. Sling
5.11.32	Stow Ramp and RLD	<ol style="list-style-type: none"> 1. Place the RLD storage bag in the supply storage area or RSU. 2. Stow the top ramp and bottom ramp as follows: <ol style="list-style-type: none"> a. Insert the top of the top ramp pins then lower the ramp so that notches are captured by the generator cable support. b. Insert the top of the bottom ramp over the pins then lower the ramp so that the notches are captured by the generator cable support. c. Insert the QC pins to secure the ramps to the generator cable support.

5.11.33	Take Down PA Soft Wall	<ol style="list-style-type: none">1. Flip the door back over the front of soft wall.2. Zip the door closed and tuck the flap inside.3. Unzip or unfold the end walls and lay them flat.4. With an operator positioned on each end of the PA platform, apply tension to the soft wall.5. Pull the QC pins from the outer legs, then allow both sides of the soft wall to relax at the same time.6. Slide the outer legs downward then insert the QC pins to secure the outer legs to the inner legs.7. Ensure the soft wall is folded evenly and the edges of the soft wall are clear of the edges of the platform.
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5.11.34	Raise and Secure PA Platform	<ol style="list-style-type: none">1. Remove the support legs from the PA platform as follows:<ol style="list-style-type: none">a. Pull the QC pin securing the upper leg to the lower leg.b. Slide the lower leg up to the stowed position and reinsert the QC pin to secure the lower leg to the upper leg.c. Pivot the foot up to the stowed position.d. Pull the QC pin out of the fork support then remove the support leg from the PA platform.e. Reinsert the QC pin into the fork support.f. Repeat steps a through e for the second support leg.2. Relocate the ladder against the ISO frame rear curbside corner for access to the PA platform rear side lock. <p>WARNING</p> <p>The side locks must be retracted and the catch must be extended prior to raising the platform. Attempting to raise platform without first unlocking side locks and extending catch may cause damage to side locks, catch, platform, and hydraulic system components. Do not over pump hydraulic system. There is a noticeable difference when the cylinders are moving and when they reach the end of their travel. When pump handle movement is firm, stop pumping to prevent causing damage to system components or creating leaks.</p>
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5.11.35	Raise and Secure PA Platform	<p>3. Raise the PA platform as follows:</p> <ol style="list-style-type: none"> a. Position the EXTEND/RETRACT lever to EXTEND. b. Position the RAISE/LOWER lever NULL. c. Install the handle into pump. d. Stroke pump with the handle until the catch is completely extended. e. Position the EXTEND/RETRACT lever to NULL. f. Position the RAISE/LOWER lever to RAISE. <p>NOTE When raising the platform, make sure the soft wall is not sticking into the area where the bow folds into notches on the ISO frame or it will be difficult to fully close the platform and secure it with the side locks.</p> <ol style="list-style-type: none"> g. Stroke the pump with the handle until the PA platform is vertical and the handle is hard to push. h. Position the EXTEND/RETRACT lever to RETRACT. i. Stroke the pump with the handle until the catch engages the PA platform and pulls the platform in tight.
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<p>5.11.36</p>	<p>Raise and Secure PA Platform</p>	<p>WARNING If not operated properly, the platform may experience sudden and unexpected drops. Prior to raising the platform verify all personnel are and remain clear.</p> <p>NOTE Slightly stroking the pump as the side locks are tightened may make it easier to fully engage the side locks.</p> <ol style="list-style-type: none"> 4. Insert the crank handle into the rear side lock and rotate in the LOCK direction until the pin is inserted into the PA platform. Ensure the lock is engaged. 5. Repeat the step at the front side lock. 6. Remove and stow the pump handle. 7. Place the EXTEND/RETRACT lever and RAISE/LOWER lever back to the NULL positions. 8. Remove the crank handle and stow in operator tool box.
<p>5.11.37</p>	<p>Raise and Secure PA Platform - Stow Support Legs</p>	<ol style="list-style-type: none"> 9. Stow the support legs as follows: <ol style="list-style-type: none"> a. Pull the QC pin securing upper support leg to the lower support leg. b. Slide the lower support leg out of the upper support leg, then insert and slide the lower leg inside of the upper leg. c. Place the support leg on the mounting provisions with the feet of the bottom leg point up and the feet of the top leg pointing down. d. Align the holes in the upper leg and lower leg with the hole in mounting provision then insert the QC pin. e. Repeat the steps to stow the remaining support legs.

5.11.38	Retract and Stow Ladder	<p>WARNING</p> <p>Always retract the ladder from the top down. Keep hands and fingers away from sliding points on the ladder sections when opening and closing. Never climb on the ladder unless the locking devices are properly engaged.</p> <ol style="list-style-type: none"> 1. Push in on the latches under the lower rung of the top ladder section to unlock it. 2. Push down on the upper rung to collapse the sections until only the bottom section remains extended. 3. Push in on the latches to collapse the last ladder section.
5.11.39	Stow Ladder	<ol style="list-style-type: none"> 4. Stow the ladder in the front storage area as follows: <ol style="list-style-type: none"> a. Place the ladder inside the mounting pads. b. Insert the hold-down bracket into the retaining plate then pivot the bracket down over the ladder. c. Install the QC pin or padlock to secure the hold-down bracket to the retaining plate.

5.11.40	Stow Jacks	<ol style="list-style-type: none">5. Stow the jacks in the front storage area as follows:<ol style="list-style-type: none">a. Lift up on the jack, insert the locking pin into the keyway, then allow the jack to hang from the keyway.b. Repeat step a to hang the other three jacks in the same manner.c. At the outboard jacks, drop the twist locks into the holes in the brackets.d. Rotate the handles to the LOCK position with the handles pointing downward. Then, tighten the collars.e. At the inboard jacks drop the twist locks into the holes in the brackets.f. Rotate the handles to the LOCK position with the handles pointing downward, then tighten the collars.
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