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## PRE-WINTER MAINTENANCE FOR RRS HA BLOWERS

- Inspect Ductwork
  - o Nozzles
    - Check for and clear any obstructions that could limit airflow
    - Make sure nozzles are free from damage and aimed at the desired location
  - o Track Duct
    - Check for and clear any obstructions that could limit airflow
    - Make sure the track duct is free from damage and secured to the rail ties
    - Inspect gasket for tears or voids, replace if the track duct is separated
  - o Flex Duct
    - Check for and clear any obstructions that could limit airflow
    - Make sure flex duct is free from damage and hasn't begun to separate
    - Inspect gaskets for tears or voids, replace if the flex duct has been removed
- Inspect Hot Air Blower
  - o Check electric fan air inlet for and clear any obstructions that could limit air intake
    - If equipped with a snorkel, inspect for obstructions as well
  - o Check main power wiring for physical damage
    - If equipped with main circuit breaker, inspect the main circuit breaker wiring box for obstructions that could cause a fire
  - o Heater and Element Box
    - Check for and clear any obstructions that could limit airflow or start a fire
    - Inspect all elements for signs of warping or electrical shorts
      - Run an insulation test on the elements to test the internal insulation
      - Any element measuring below 10 MΩ should be replaced immediately
    - Check busbars and its connections for warping, corrosion and tightness
    - Check electrical wire and its connectors for corrosion, physical damage and signs of overheating (burnt insulation, major discoloration of metal, etc.)
    - Inspect gaskets between the heater and element box as well as the element box and its lid for any damage, replace if necessary.
  - o Control Box
    - Check for and clear any obstructions that could cause an electrical short or fire
    - Inspect all electrical components for signs of power surges or malfunctions (burn marks, melted wire insulation, physical damage, etc.)
    - Verify all electrical connections made by the customer (power in, crib heaters and rod heaters) are connected and tight
    - Reset all breakers (off then on) to verify they are in the on position
      - Reset the disconnect or main breaker if blower is equipped
      - Turn on the electric power at the source and verify the RRS HA blower is getting power (green light on snow sensor)
      - Fire up the unit and check for operation; verify the snow sensor operates as intended
    - Verify snow sensor operates as intended
      - Moisten the moisture sensor on top of the snow sensor with water and use freeze spray to trick the temperature sensor on the bottom of the unit to read below 37°F
      - Contactors should kick on (audible) and the green LED on the snow sensor should start flashing (visual)