

Instructions: Complete daily maintenance checklist and perform daily maintenance each day that PSA plant is turned on and operated. Maintain a separate set of records for both systems in a duplex PSA plant and all three systems in a triplex PSA plant. The technician who completes the daily maintenance checklist must initial the form. Customize this form to your PSA plant. Electronic copies of this form are available at www.bhioxygen.org
 Note: This document was developed by Build Health International for the Global Fund's Project BOXER.

Daily Maintenance Checklist

Visual Inspections	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Date							
Technician Initials							
Remove any combustible materials in or near PSA plant							
Sweep and mop floor and dust surfaces (once/week)							
Check the PSA plant for physical damage (once/week)							
Are cylinders stored safely? (with caps and chains)							
Are all ventilation systems working, including fans?							
Are air intake filter mats, intake cover, and ventilation filters in place?							
Check the condition of the air filter (once/week)							
Ensure that air compressor and all-in-one covers are in place							
Check belt tension on the air compressor motor (if equipped)							
Is the air compressor oil level at the manufacturer's specified level? (once/week)							
Are there any oil leaks at the bottom of the air compressor?							
Is the air compressor condensate draining correctly?							
Empty condensate container (if equipped)							
Is the air dryer condensate draining correctly?							
Are the in-line filters' condensate draining correctly?							

Visual Inspections (Continued)	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Is the air tank condensate draining correctly?							
Check the condition of the booster compressor for physical damage, unusual noises, or leaks (water or oil)							
If the backup manifold has not been used in the past day, does the pressure gauge indicate it is maintaining pressure?							
Check the condition of all manifold pigtails (once/week)							

Data Collection	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Temperature in PSA Plant Room or Container (°C)							
Are there any alarm codes? If so, identify components and take a picture of the alarm.							
Air Compressor Temperature (°C)							
Air Compressor Running Hours							
PDP Temperature (°C)							
Oxygen Purity (%) - PLC							
Oxygen Purity (%) - Handheld Oxygen Analyzer							
Oxygen Generator Running Hours							
Booster Compressor Running Hours							
Booster Compressor pressure gauge readings (list every stage) and temperature (once/week)							
If using a standard cylinder size, the number of cylinders filled Indicate standard cylinder size_____							
Number of hours during which cylinders were filled							
Compare the running hours recorded above with the Preventative Maintenance Schedule. Is service needed? (once/week)							