Beryllium Pollution Control Equipment - Operation and Maintenance Plan

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The Operation and Maintenance Plan covers the following beryllium pollution control equipment:
Torit Collectors, Pre-Filters, HEPA Filters, Exhaust Fans & Manometers

A. Operating Parameters

Torit Collectors:	Dust collector for beryllium dust
Pre-Filters:	Passive in-line filter
Absolute Filters (HEPA):	2000 test flow CFM
Dwyer Manometers:	0-3 In. W.C.
Manometer / Magnahelic	0-3 In. W.C.
Fans:	Adjusted to meet demands of filter system

B. Routine Inspection & Maintenance

All air filters, dust collectors and exhaust fans will be inspected as described below for proper operating characteristics and parameters.

- Torit dust collectors will be emptied on an as-needed basis.
- Pre-Filters will be changed when the pressure drop across the filter reaches the manufacturers recommended replacement pressure drop.
- Absolute Filters (HEPA) will be changed when the pressure drop across the filter increases to the manufacturers recommended replacement pressure drop.
- Manometers: Zero adjustment and/or fluid addition will be done while manometer is disconnected.
- All exhaust fans will be lubricated as necessary and redundant belts will be replaced when necessary.
- Lower than previous pressure drop readings will require confirmation of flow configuration, system balance and new reading.
- Visually inspect filter and duct system for evidence of leaks when second pressure drop reading remains below previous readings.
- Any filter may be changed if sufficient flow cannot be achieved in the exhaust system.
- All maintenance activities will be noted in log.
- All hoods will be checked for proper airflow on an annual basis. System will be balanced as required.

C. Routine Observation

Routine preventative maintenance will be carried out as follows as recommended by the Honeywell plant engineering group responsible for design and function of these pollution control devices.:

Location	PM#	Pollution Control Device	Maintenance Check	Frequency
Plant 1	9850	Torit dust Collector	Dust level	Monthly
	9818	Pre-Filter & HEPA Filter	Pressure differential	Monthly
	9818	Exhaust Fan	noise, belts & vibration	Monthly

D. Spare Parts

Spare parts will be kept on hand in the following minimum quantities:

Fan Belts	2 Each
Pleated Pre-Filters 2"	6 Each
Absolute Filters (HEPA)	3 Each
Manometers, Dwyer #25 or equivalent	2 Each

E. Maintenance Record Log

A record will be kept of all maintenance performed through the use of P. M. sheets and computer tracking. All actions will be entered and indicate the following:

1. The date maintenance was performed.
2. A short description of the maintenance performed and why.
3. The employee number or initials of the employee performing the maintenance.

F. References:

Dwyer Instruments, Inc., Mark II Molded Plastic Manometers Model #25, or equivalent.
2" Pre-Filters, Precisionaire PrePleat 40 40% 24"X 24"X 2", or equivalent.
Absolute Filters (HEPA) Flanders Model 007-C-08-03 CL GGF 99.99%, or equivalent.
Ex Fan 1-27 Buffalo Size 25 Type MW, or equivalent.