MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY, AIR QUALITY DIVISION

PACKED-BED SCRUBBERS OPERATION AND MAINTENANCE RECORD

This information is required by Article II, Part 55 (Air Pollution Control) of P.A. 451 of 1994, as amended, and the Federal Clean Air Act of 1990. Failure to provide this information may result in penalties and/or imprisonment.

Applicable Rule: 40 CFR Part 63, Subpart N--National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks.

NOTE: Affected facilities using a packed-bed scrubber to comply with the chromium emission limit must complete this form. Records must be maintained on file for five years and made available upon request for inspection by the Michigan Department of Environmental Quality.

1. PLANT NAME	2. PLANT LOCATION	
3. CONTROL DEVICE ID #	4. INSTALLATION DATE	5. DATE OF LAST PERFORMANCE DATE

6. TANKS DUCTED TO CONTROL SYSTEM:

TANK ID #	TYPE OF TANK (i.e., hard chrome, decorative chrome or chrome anodizing)

7. INSPECTION/MAINTENANCE CHECKLIST (insert inspector's initials in boxes):

Inspections and maintenance of process tank(s), control devices and monitoring equipment should be conducted on a quarterly basis or per manufacturer's recommendations where noted. Visually inspect the packed-bed scrubber to ensure there is proper drainage, no chromic acid build up on the pads and no evidence of chemical attack on the structural integrity of the device. To ensure no breakthrough of chromic acid mist, visually inspect the back portion of the chevron blade mist eliminator. Inspect the ductwork from the tank(s) to the control device to check for leaks.

CONTROL DEVICE INSPECTION	Month/Day/Year	Month/Day/Year	Month/Day/Year
Inlet and Outlet Transition Zones			
Spray Nozzles			
Packed-Bed Section			
Overhead Weir			
Drain Lines			
Fan Motor			
Fan Vibration			

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PACKED-BED SCRUBBERS OPERATION AND MAINTENANCE RECORD (continued)

MONITORING EQUIPMENT INSPECTION	Month/Day/Year	Month/Day/Year	Month/Day/Year
Pressure Lines Connected			
Pressure Drop Monitors Calibrated			
Pitot Tube [1]			

[1] Backflush with water or remove from the duct and rinse with fresh water. Replace in the duct and rotate 180° to ensure that the same zero reading is obtained. Check pitot tube ends for damage. Replace pitot tube if cracked or fatigued.

CONTROL DEVICE MAINTENANCE	Month/Day/Year	Month/Day/Year	Month/Day/Year
Add Fresh Makeup Water [2]			

[2] Add fresh makeup water to the top of the packed-bed scrubber whenever needed.

8. CORRECTIVE ACTIONS:		
Maintenance performed on control equipment, process tank(s) and monitoring equipment must be documented. Record items such as type of maintenance performed and the time out of service. Be sure to include the date and initials of the person performing the maintenance.		
DATE	INITIALS	SUPERVISOR INFORMED: ☐ Yes ☐ No

DATE	INITIALS	SUPERVISOR INFORMED: ☐ Yes ☐ No

DATE	INITIALS	SUPERVISOR INFORMED: ☐ Yes ☐ No

DATE	INITIALS	SUPERVISOR INFORMED: ☐ Yes ☐ No

NOTE: This checklist contains only the minimum requirements and does not include all of the system checks that need to be performed to ensure proper operation of the control system. Facilities should incorporate information recommended by the control system vendor.