Problem Solving Checklist

Use this checklist with the IAQ Problem Solving Wheel to resolve a single IAQ
complaint or several complaints occurring at the same time that seem related.
Mark a copy of the fire escape floorplan or use other means of recording and
reviewing information. Since this checklist becomes a record of your activities
in resolving IAQ complaint(s), date it and file if for future reference. Involve ad
ditional staff, such as engineers, during the problem-solving process.

IAQ Coordinator		
School		

Reports of IAQ Problems

Record complaints below at the beginning of your problem-solving process. Interview the complainant(s) to get a complete and accurate description of any symptoms, times, and locations.

Complainant Name	Date Received	Description of Complaint (symptoms or explanation)	Location(s) or Room Number(s)	Is Problem Ongoing?	Occurrence Date(s) & Time(s)
				Yes No	
				Yes No	
				Yes No	
				Yes No No	
				Yes	
				No	
		_ — — — — — — — -		No ☐ Yes	
				No ☐ Yes	
				No Yes	
				Tes No	

Problem Solving Steps

Follow the directions on the IAQ Problem Solving Wheel to investigate potential causes of the symptoms recorded above. Use the step below to help keep your investigation organized and documented.

	Step	Date Completed		Notes
1.	Relate the symptoms from the complaint data box to a group of symptoms in the Notes column to the right.		٥	Odors Temperature or humidity problems (occupant discomfort) Headaches, lethargy, nausea, drowsiness, and dizziness Swelling, itching, or irritated eyes, nose, or throat; congestion
				Cough, chest tightness, shortness of breath, fever, chills, fatigue
				Diagnosed infection or clusters of serious health problems

	Step	D	ate	Comp	leted	Notes	
2.	Is this an emergency? Yes No See the Problem Solving Wheel's sectors "Identifying an emergency" and "What to do in an emergency."					Actions Taken: Evacuation Notification Other:	
3.	Place a checkmark next to the potential causes a Step 4 below that are shown at 2 on the Wheel.	in					
4.		or ea	ch c	diagn	ostic s	olving Wheel. Use this area to record diagnostics step to allow you to record information for more form as necessary. Please note that some of the	
	Step	Date Completed (for eclocation if more than one location or piece equipment is involved			on if more than cation or piece of		
		1		2	3	<u>'</u>	
	Temperature & Humidity Is thermostat properly set? Is air flowing from the vent warm (for heat) or cool (for air conditioning)? Are drafts or direct sunlight causing discomfort? Is humidity between 30-60% relative humidity (recommended)? Is condensation often present on windows or other cold surfaces? Is there an objectionable odor? Outdoor Air Supply Is the ventilation system turned on? Is the outdoor intake blocked? Are supply vent(s) blocked? Is air flowing from supply vent(s)? Is air flowing into outdoor intake? Are outdoor air or supply ducts blocked? Is outdoor air supply at least 15 cfm per occupant? Is CO ₂ in the area higher than 1000 ppm?						
	Air Handling Unit Is the system turned on? Is the air flowing from vent(s)? Is the fan operating? Is the filter(s) clean & properly installed? Are dampers operating properly? Is there moisture, debris or microbial growth in or around the unit? Is the drain pan clean & draining? Are the coils clean? Is combustion equipment properly vented (no flue leaks, spillage, or backdrafting)?						

Step	locatio	Date Completed (for each location if more than		
	equipment is involved)		one location or piece of equipment is involved)	
	1	2	3	
 Local Exhaust Does the exhaust system turn on? Is the exhaust used consistently? Is air flowing from the exhaust vent? Is exhaust duct work blocked? Is a sufficient amount of air being exhausted? If everything works, but not enough air is being exhaused, can make-up air easily enter the room (e.g., through spaces under doors)? 				
 Biological Sources Are animals or fungi (mold) present? Is there an odor of mold or mildew? Are supply vent(s) blocked? Is there standing water near the complaint area or in the air handling unit? Is condensation often present on windows or cold surfaces? Is indoor relative humidity above 60%? Are contagious occupants present? 				
 Housekeeping Sources Do complaints occur during or just after housekeeping activities? Do housekeeping activities take place near the complainants? Are any new products in use? Are housekeeping products being used according to directions? Are products stored in sealed containers or in a vented room(s)? 				
 ❑ Outdoor Sources ■ Are sources of odor or pollutants (e.g., vehicles, stored chemicals, trash, plumbing vents) located near outdoor air intakes? ■ Are there sources nearby or upwind: Combustion byproducts from traffic, loading docks or flue exhausts? Industrial, agricultural or lawn care activity? Construction activity? ■ Are pollen levels high? 				
 Building Sources Has there been recent painting, roofing, or other remodeling or construction? Were pesticides applied recently near the complaint area? Are new furnishing or equipment in place? Are drain traps dry? Are chemicals stored in properly sealed containers? Is the building overly dusty? 				

Step	Date Completed	Notes
5. Repeat all diagnostics for each potential cause in all affected locations.		
6. If the diagnostics for the recommended potential causes did not identify the problem(s), investigate remaining potential causes in Step 4 until the cause(s) of the complaint(s) are identified and corrected.		
7. If problem remains unidentified or uncorrected, obtain professional assistance.		Company: Person: Phone:
8. Provide notice if problem is not quickly resolved.		☐ Notice to occupants ☐ Notice to parents of minors
9. Problem resolved and preventive measures taken.		Describe solution: Preventive measures taken:
10. Provide a final report.		
11. To prevent future problems, implement an IAQ Management Plan.		
12. File this Checklist and related information.		