DOI COVID-19 Ventilation Checklist

This document is intended for use in DOI owned and operated buildings. It's primarily use is use Centers for Disease Control and Prevention Guidance on Ventilation in Buildings to evaluate and document potential modifications to Heating, Ventilation, Air-Condition (HAVC) systems.

Ventilation system upgrades or improvements or other steps can increase the delivery of clean air and dilute potential contaminants.

Completed by: Date:		Date:
		Facility Notes
	Obtain consultation from building managers and exp Heating, Ventilation and Air Conditioning (HVAC) pro when considering changes to the HVAC systems and	ofessionals
	cion improvements may include some or all of these rations:	
	Increase outdoor air ventilation (using caution in hig polluted areas)	ghly
	Increase fresh outdoor air by opening windows and NOTE: Do not open windows and doors if doing so posafety or health risk to occupants in the building.	
	Use fans to increase the effectiveness of open windon NOTE: To safely achieve this, fan placement is imporwill vary based on room configuration. Avoid placing a way that could potentially cause contaminated air directly from one person over another.	rtant and g fans in
	Decrease occupancy in areas where outdoor ventilated cannot be increased.	tion
	Ensure ventilation systems operate properly and pro acceptable indoor air quality for the current occupa- for each space.	
	Increase airflow to occupied spaces when possible.	
	Turn off any demand-controlled ventilation (DCV) controlled that reduce air supply based on occupancy or temper during occupied hours. In homes and buildings when HVAC fan operation can be controlled at the thermous the fan to the "on" position instead of "auto," which operate the fan continuously, even when heating or conditioning is not required.	erature re the ostat, set n will
	Open outdoor air dampers beyond minimum setting reduce or eliminate HVAC air recirculation. NOTE: In weather, this will not affect thermal comfort or hum However, this may be difficult to do in cold, hot, or I weather.	n mild nidity.

	Improve central air filtration by increase aid filtration to as high as possible without significantly reducing design airflow.	
	Improve central air filtration by inspect filter housing and racks to ensure appropriate filter fit and check for ways to minimize filter bypass.	
	Improve central air filtration by checking filters to ensure they are within their service life and appropriately installed.	
	Ensure restroom exhaust fans are functional and operating at full capacity when the building is occupied.	
	Inspect and maintain local exhaust ventilation in areas such as kitchens, cooking areas, etc. Operate these systems any time these spaces are occupied. Consider operating these systems, even when the specific space is not occupied, to increase overall ventilation within the occupied building.	
	Consider portable high-efficiency particulate air (HEPA) fan/filtration systems to help enhance air cleaning (especially in higher risk areas such as a nurse's office or areas frequently inhabited by persons with higher likelihood of COVID-19 and/or increased risk of getting COVID-19).	
	Generate clean-to-less-clean air movement by re-evaluating the positioning of supply and exhaust air diffusers and/or dampers (especially in higher risk areas).	
	Consider using ultraviolet germicidal irradiation (UVGI) as a supplement to help inactivate SARS-CoV-2, especially if options for increasing room ventilation are limited. <u>Upper-room UVGI systems</u> can be used to provide air cleaning within occupied spaces, and in-duct UVGI systems can help enhance air cleaning inside central ventilation systems.	
	This checklist is on file with building manager	
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Note: The ventilation intervention considerations listed above come with a range of initial costs and operating costs which, along with risk assessment parameters such as community incidence rates, facemask compliance expectations and room occupant density, may affect considerations for which interventions are implemented. Cost estimates per room for the listed ventilation interventions in cost.

Example: In non-residential settings, consider running the HVAC system at maximum outside airflow for 2 hours before and after the building is occupied.

- No cost: opening windows; inspecting and maintaining local exhaust ventilation; disabling DCV controls; or repositioning outdoor air dampers
- Less than \$100: using fans to increase effectiveness of open windows; or repositioning supply/exhaust diffusers to create directional airflow
- \$500 (approximately): adding portable HEPA fan/filter systems
- \$1500 (approximately): adding upper room UVGI

Additional information: https://www.cdc.gov/coronavirus/2019-ncov/community/ventilation.html