

No.	Building & Process Room	Age of Existing HVAC Equipment	Existing Equipment scfm	Room Length	Room Width	Room Area	Room Ceiling Ht	Building or Room Volume (cf)	Existing Air Changes per hour	10 States Code Section	Required Air Changes per Hour	NFPA B20 Section	Required Air Changes per Hour	2003 UFC Section	Required Air Changes per Hour	Recommended Air Changes per Hour	Existing Equipment	Equipment Operation Notes	Comments
1	Bar Screen	1973	0	22	17.33	381	41.5	15822	0	61.13	12 continuous or 30 intermittent	5.2-1b	12	N/A	12 continuous	None		Ventilation rate req'd to meet Class I, Div 2, Group D rating.	
2	Primary Influent Pump Station - Wet Well	1973	0	51	13.25	676	33	22300	0	42.75	12 continuous or 30 intermittent	4.2-16a	12	N/A	12 continuous	None		Ventilation rate req'd to meet Class I, Div 2, Group D rating. NFPA 820 9.2.6 requires this room be maintained at a negative pressure of 0.10 in w.g. with respect to ambient air. Dry well is open to first floor of service building. Required ventilation rate must be met to permit space to be unclassified. Need ceiling height of ground floor to compute space volume. Ceiling height listed is an estimate.	
3	Primary Influent Pump Station - Dry Well	1973	0	51	13.83	705	33	51504	0	42.75	6 continuous or 30 intermittent	4.2-17a	6	N/A	6 continuous	None			
	Primary Influent Pump Station - 1st floor service bldg	1973	0	46.25	17.5	807	12	28228	0										
4	Control Building - Secondary Influent Wet Well	1973	0	37	10	370	10	3700	0	42.75	12 continuous or 30 intermittent	4.2-16a	12	N/A	12 continuous	None		Ventilation rate req'd to meet Class I, Div 2, Group D rating. NFPA 820 9.2.6 requires this room be maintained at a negative pressure of 0.10 in w.g. with respect to ambient air.	
5	Control Building - Secondary Influent Pump Room (ground floor)	1973	1100	49	20	980	14	13720	5	42.75	6 continuous or 30 intermittent	4.2-17a	6	N/A	6 continuous	Penthouse 6, MAU-1, Penthouse 10.		Penthouse 6 provides outside air to MAU-1. Penthouse 10 provides relief air. MAU-1 delivers 100% OA, tempers to 70 °F DAT.	
	Control Building - Secondary Influent Pump Room (basement)	1973	1500	49	20	980	15	14700	6	42.75	6 continuous or 30 intermittent	4.2-17a	6	N/A	6 continuous	Penthouse 6, MAU-1, Penthouse 10.		Penthouse 6 provides outside air to MAU-1. Penthouse 10 provides relief air. MAU-1 delivers 100% OA, tempers to 70 °F DAT.	
6	Control Building - Control Room	1973	745	21.15	18	435	18.33	7968	6			9.2.5	N/A					NFPA 820 9.2.5 requires this room be maintained at a positive pressure of 0.10 in w.g. with respect to ambient air. If the adjacent pump room is not ventilated to at least 6 ACH.	
7	Control Building - Chlorination equipment room	1973	9595	22	18	450	18.33	8243	70	102.54	1 air change per minute	N/A	2704.3.1(2)	4	1 air change per minute	Penthouse 3, PRE-5A, PRE-5, PRE-4A.		Penthouse 3 provides 100% OA as make-up air. PRE-5A and PRE-6 are interlocked with PH-3. PRE-5A is on a manual switch. PRE-4A is on a manual switch. CFM is all fans operational.	
			8645						63	102.54	1 air change per minute				1 air change per minute			CFM is PRE-6 only.	
			745						5	102.54	1 air change per minute				1 air change per minute			CFM is PRE-5A only.	
			205						1	102.54	1 air change per minute				1 air change per minute			CFM is PRE-4A only.	
			9390						68	102.54	1 air change per minute				1 air change per minute			CFM is PRE-5A and PRE-6.	
			8850						64	102.54	1 air change per minute				1 air change per minute			CFM is PRE-4A and PRE-6.	
			950						7	102.54	1 air change per minute				1 air change per minute			CFM is PRE-4A and PRE-5A.	
8	Control Building - Chlorine Cylinder Storage	1973	13423	44	14	616	18.33	11281	71	102.54	1 air change per minute	N/A	2704.3.1(2)	4	1 air change per minute	Penthouse 2, PRE-1B, PRE-3, PRE-2.		Penthouse 2 provides 100% OA as make-up air. PRE-1B and PRE-3 are interlocked with PH-2. PRE-1B is on a manual switch. PRE-2 is on a manual switch. CFM is all fans operational.	
			11503						61	102.54	1 air change per minute				1 air change per minute			CFM is PRE-3 only.	
			1580						8	102.54	1 air change per minute				1 air change per minute			CFM is PRE-1B only.	
			340						2	102.54	1 air change per minute				1 air change per minute			CFM is PRE-2 only.	
			13083						70	102.54	1 air change per minute				1 air change per minute			CFM is PRE-1B and PRE-3.	
			11843						63	102.54	1 air change per minute				1 air change per minute			CFM is PRE-2 and PRE-3.	
			1920						10	102.54	1 air change per minute				1 air change per minute			CFM is PRE-1B and PRE-2.	
9	Filter Bldg - Flootation Thickener Room	1973	7800	38	31.5	765	14	10710	44			6.2-8b	N/A		12 continuous	Air-to-Air heat exchanger 1B		Room area does not include control room 1A. Room area includes control room 1B. Ventilation rate req'd to meet Class I, Div 2, Group D rating. NFPA 820 9.2.6 requires this room be maintained at a negative pressure of 0.10 in w.g. with respect to ambient air.	
10	Filter Bldg - Control Room 1A	1973	0	24	18	432	14	6048	0			9.2.5	N/A					NFPA 820 9.2.5 requires this room be maintained at a positive pressure of 0.10 in w.g. with respect to ambient air. If the adjacent pump room is not ventilated to at least 12 ACH.	
11	Filter Bldg - Sludge Loading and Chemical Room	1973	4300	83	34.5	2864	14.08	40318	6	88.34	12 continuous or 30 intermittent	6.2-12	N/A		12 continuous	Air-to-Air heat exchanger 1A		Room area does not include control room 1A. Room area includes control room 1B. Ventilation rate req'd to meet Class I, Div 2, Group D rating. NFPA 820 9.2.6 requires this room be maintained at a negative pressure of 0.10 in w.g. with respect to ambient air.	
12	Filter Bldg - Pump Room (basement)	1973	0	8	16.5	132	12	1320	12	42.75	12 continuous or 30 intermittent	6.2-8b	N/A		12 continuous			Not currently ventilated.	
13	Filter Bldg - Belt Filter Press Room	1973	5600	83	34.5	2864	11.25	28389	8	88.34	6 continuous or 30 intermittent	6.2-12	N/A		6 continuous	Air-to-Air heat exchanger 1B		Basement is open to tunnel, unless door is installed in opening along column line 6 (see sheet 48 18-HV2). Basement is also open to floatation thickener room, and NFPA air flow listed takes into account this communication.	
14	Digester Control Building No. 1	1973	0	26.83	14	375.62	12	4507	6	64.47	12 continuous or 30 intermittent	6.2-8b	N/A		12 continuous			Room area includes control room C. Served by branch from air-to-air heat exchanger 1A.	
15	Digester Control Building No. 2 - Control Room	1973	3200	34	16	544	12	6528	7	84.47	12 continuous or 30 intermittent	6.2-8b	N/A		12 continuous	MAU-8, Penthouse 8, Penthouse 9		Need ceiling height to calculate space volume. Height shown is an estimate.	
16	Digester Control Building No. 2 - Gas control room	1973	750	34	16	544	12	6528	7	84.47	12 continuous or 30 intermittent	6.2-17b	N/A		12 continuous	PRE-7		Ventilation rate req'd to meet Class I, Div 2, Group D rating. NFPA 820 9.2.6 requires this room be maintained at a negative pressure of 0.10 in w.g. with respect to ambient air.	