

032-I-042

Marge Schmuckal - Re: Fwd: FW: Decibel dBA levels at closest property line for rooftop equipment

From: Marge Schmuckal
To: Helen Donaldson
Date: 3/21/2014 12:14 PM
Subject: Re: Fwd: FW: Decibel dBA levels at closest property line for rooftop equipment

Hi Nell,
this information shows that The equipment would fall under the required maximum dBAs for the B-3 zone. this is not a substitute for the required HVAC permits that are required.
Marge

>>> Helen Donaldson 3/20/2014 10:49 AM >>>
Marge,

I forwarded your comments along to Greg Shinberg and this is what I got in response. Let me know if it takes care of things from your end?

Nell

Marge Schmuckal - FW: Decibel dBA levels at closest property line for rooftop equipment

From: Greg Shinberg <gls@shinbergconsulting.com>
To: Helen Donaldson <HCD@portlandmaine.gov>
Date: 3/20/2014 10:37 AM
Subject: FW: Decibel dBA levels at closest property line for rooftop equipment ✓

Hi Nell:

Please see the attached information on the Hyatt Hotel Old Port.

I believe that this should address the ordinance concerns.

Please advise if this will suffice.

Greg

Shinberg Consulting, LLC
477 Congress Street, Suite 1012
Portland, Maine 04101
Office 207 772 7070
Fax 207 772 7080
Cell 207 653 7510
gls@shinbergconsulting.com
www.shinbergconsulting.com

From: Timothy Hart [mailto:thart@canal5studio.com]
Sent: Thursday, March 20, 2014 9:48 AM
To: Greg Shinberg - gls@shinbergconsulting.com
Cc: Timothy Schneider
Subject: Decibel dBA levels at closest property line for rooftop equipment

Greg, I have taken the rated dBA for each piece of equipment and calculated the dBA levels at the closest property line. As you can see, all equipment falls under the 55 to 60 dBA constraints of the B-3 zone.
Tim

Unit	Rated dBA	Rated dBA Dist. (ft)	dBa @ 40'
ERV1	60	5	44
ERV2	60	5	44
ERV3	60	5	44
Split Unit Condensor 1	53	5	38
Split Unit Condensor 2	53	5	38
Split Unit Condensor 3	53	5	38
Cogen Microturbine	56	3	35
Makeup Air Unit	77	2	53
Exhaust Fan D/W	60	3	39
Cooling Tower	67	5	52

* 40' represents the distance of the closest property line (North line at CMP)

CANAL5STUDIO

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 Portland, Maine 04101
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Architecture / Planning / Interior Design

Marge Schmuckal - FW: Roof Top Equip Decibel Outputs - Rev1

From: Greg Shinberg <gls@shinbergconsulting.com>
To: Helen Donaldson <HCD@portlandmaine.gov>
Date: 8/15/2013 11:16 AM
Subject: FW: Roof Top Equip Decibel Outputs - Rev1
Attachments: HPP dBA - Roof Top Units July 2013.pdf

Hi Nell:

Please see the attached information and the email below.

A Co- Gen system is a new generator that produces electricity (it is on the roof) and the by product is heating water that will be used in hotel rooms.

Do not hesitate to contact me with any questions.

Greg

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From: Schneider, Timothy [<mailto:TSchneider@consigli.com>]
Sent: Tuesday, August 06, 2013 6:47 PM
To: Greg Shinberg
Cc: Hossfeld, Matthew; Dorval, Jerry
Subject: RE: Roof Top Equip Decibel Outputs - Rev1

Greg,

As discussed earlier the Co-Gen decibel rating is 54 – 56. <http://us.yanmar.com/products/energy-systems/details/>

Thanks.



Timothy Schneider, LEED AP
Project Manager
Consigli Construction Co., Inc.
15 Franklin Street
Portland, ME 04101
c. 207.317.6220
t. 207.791.2518
f. 207.791.2568

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From: Schneider, Timothy
Sent: Friday, August 02, 2013 1:37 PM
To: Greg Shinberg
Cc: Hossfeld, Matthew; Dorval, Jerry
Subject: Roof Top Equip Decibel Outputs - Rev1

Greg

Here's us a list of the decibel rating for all roof top mounted equipment.

Let us know if you need anything further on this.

Thanks.

Timothy Schneider, LEED AP
Project Manager
Consigli Construction Co., Inc.
15 Franklin Street

CT-1

UPDATE™ Version 4.15.1
Product Data: 2/15/2013 (Current)

© 2013 SPX Cooling Technologies, Inc.
3/21/2013 10:39:27 AM

Job Information

Hyatt
Bennett
Portland, ME

Selected By

R. T Forbes Company, Inc.
1 Lummus Avenue
PO Box 209
rscogland@comcast.net

Richard Scogland
Tel 978-777-1220
Fax 978-777-1760

Cooling Tower Definition

Manufacturer	Marley	Fan Speed (100.0 %)	635 rpm
Product	Aquatower Steel	Fan Tip Speed (100.0 %)	8977.1 fpm
Model	495K	Fan Motor Speed (100.0 %)	1800 rpm
Cells	1	Fan Motor Capacity per cell	5.000 BHp
Fan	4.50 ft, 6 Blades	Fan Motor Output per cell	4.000 BHp
Fans per cell	1	Fan Motor Output total	4.000 BHp

Model Group Standard

Sound

1-Cell sound data for an unobstructed environment.

Sound Pressure Level (SPL) expressed in dB (re: 20x10⁻⁶ Pa)
Sound Power Level (PWL) expressed in dB (re: 1x10⁻¹² watts)

Distance	Location	Octave Band Center Frequency (Hz)								Overall dBA
		63	125	250	500	1000	2000	4000	8000	
50.00 ft	Air Inlet Face SPL	69	76	68	64	60	55	46	39	67
50.00 ft	Cased Face SPL	71	74	65	61	54	49	42	36	63
50.00 ft	Fan Discharge Face SPL	70	76	66	66	62	57	49	41	68
50.00 ft	Top Deck SPL	68	71	64	60	55	50	46	43	62
	Tower PWL	102	107	98	95	90	85	78	72	97

B-3
55-60

Notes

- Sound Pressure Levels at Fan Discharge are measured on the cased face side opposite the motor, far enough outside the air stream to prevent air noise from affecting the reading.
- Sound data is in accordance with ATC-128.

Susan Hathaway

From: Morrill, Peter <PWMORRILL@TRANE.COM>
Sent: Wednesday, July 31, 2013 10:28 AM
To: Susan Hathaway
Cc: Broderick, Dan
Subject: RE: Hyatt

Susan,

This is what we have for sound data:

radiated sound levels:

2 Fan Config	OA1D096 - OA1D180							
	Octave Band (@ 5ft)							
	1	2	3	4	5	6	7	8
SPL dB(A)	48	55	60	64	67	67	66	60
	Octave Band (@ 3ft)							
	1	2	3	4	5	6	7	8
SPL dB(A)	53	60	65	68	71	72	71	64
	Octave Band (@ 1ft)							
	1	2	3	4	5	6	7	8
SPL dB(A)	62	69	74	78	81	81	80	74

Ducted Sound Levels:

ERU-1-

Supply:

Octave	1	2	3	4	5	6	7	8	LwA
Inlet	77	80	85	79	70	73	71	67	82
Outlet	78	82	87	83	80	81	78	73	87

Exhaust:

Octave	1	2	3	4	5	6	7	8	LwA
Inlet	75	78	83	75	69	73	71	63	80
Outlet	76	81	85	80	79	80	76	71	88

ERU-2-

Supply:

Sound Power Levels in dB ref: 10⁻¹² Watts

Octave	1	2	3	4	5	6	7	8	LwA
Inlet	81	82	89	89	78	79	79	74	89
Outlet	83	84	80	91	85	85	84	79	93

Exhaust:

Sound Power Levels in dB ref: 10⁻¹² Watts

Octave	1	2	3	4	5	6	7	8	LwA
Inlet	78	79	87	83	74	77	78	69	88
Outlet	78	82	87	85	82	83	81	75	89

ERU-3-

Supply:

Sound Power Levels in dB ref: 10⁻¹² Watts

Octave	1	2	3	4	5	6	7	8	LwA
Inlet	80	82	89	87	76	78	77	73	88
Outlet	82	84	80	90	84	84	82	77	92

Exhaust:

Sound Power Levels in dB ref: 10⁻¹² Watts

Octave	1	2	3	4	5	6	7	8	LwA
Inlet	78	79	87	82	74	77	78	69	85
Outlet	78	82	87	85	82	83	80	75	89

From: Susan Hathaway [mailto:shathaway@titanmech.com]
Sent: Wednesday, July 31, 2013 9:13 AM
To: Morrill, Peter
Subject: Hyatt

Pete,

Do you have dBA ratings for the ERV for the Hyatt project? Consigli is asking to have in hand for tomorrow's meeting.
 Thanks.

Susan Hathaway
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Titan Mechanical, Inc.
 Design Build Engineering
 Mechanical Contracting and Service
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Begin forwarded message:

From: "Hossfeld, Matthew" <MHossfeld@consigli.com>
Date: August 2, 2013, 1:30:40 PM EDT
To: "Schneider, Timothy" <TSchneider@consigli.com>
Subject: FW: Roof Top Equip Decibel Outputs - Rev1

See attached and below for dBA's for roof top units

Marge Schmuckal - Hotel dBAs

From: Marge Schmuckal
To: Helen Donaldson
Date: 3/19/2014 4:02 PM
Subject: Hotel dBAs

Hi Nell,

What I received shows different information. Greg Staed that the C=Gen decibel rating is 54-56 which meets the B-3 external effects. However, the rest of what he sent shows perhaps other equipment that list overall dBAs of 67, 63, 68, & 62. the B-3 maximizes 60 during day time and 55 during night time. That could be alright if the readings were done right at the unit. The readings may be different at the property lines. I would need that to be explained.

I don't think I got a permit for these units yet. They would be required to get separate permits for these units.

Marge

results in the displacement of residents of dwelling units currently located on the development site shall meet the requirements of sections 14-861 through 14-864.

(i) *Historic resources:* The exterior design of proposed or renovated structures located within historic districts shall be subject to the provisions of article IX (historic preservation) of this chapter. The exterior design of proposed or renovated structures located adjacent to historic districts or historic resources shall be subject to section 14-526(d) 5, b.

(Ord. No. 241-91, 3-11-91; Ord. No. 240-09/10, 6-21-10; Ord. No. 278-09/10, 7-19-10)

Sec. 14-221.1. External effects.

Every use in the B-3, B-3b and B-3c zones shall be subject to the following requirements:

- (a) *Enclosed structure:* The use shall be operated within a completely enclosed structure, except for those uses customarily operated in the open air.
- (b) *Noise:* The level of sound, measured by a sound level meter with frequency weighting network (manufactured according to standards prescribed by the American National Standards Institute, Inc.), inherently and recurrently within the B-3 and B-3b zones shall not exceed fifty-five (55) decibels on the A scale between the hours of 9:00 p.m. and 7:00 a.m., and sixty (60) decibels on the A scale between 7:00 a.m. and 9:00 p.m. at the boundaries of any lot nor within publicly accessible pedestrian open space, except for sound from construction activities, sound from traffic on public streets, sound from temporary activities such as festivals, and sound created as a result of, or relating to, an emergency, including sound from emergency warning signal devices. In measuring sound levels under this section, sounds with a continuous duration of less than sixty (60) seconds shall be measured by the maximum reading on a sound level meter set to the A weighted scale and the fast meter response (L maxfast). Sounds with a continuous duration of sixty (60) seconds or more shall be measured on the basis of the energy average sound level over a period of sixty (60) seconds (LEQ₁).