

Hwang, Jin

From: Moosbrugger, Earl
Sent: Thursday, August 04, 2016 8:32 AM
To: Hwang, Jin
Subject: RE: Crossroads WSA - question on square footage

Jin,

What is the basis of the 20% reduction to get chiller capacity from cooling?

Thanks!

From: Hwang, Jin
Sent: Thursday, August 04, 2016 8:29 AM
To: Moosbrugger, Earl
Subject: RE: Crossroads WSA - question on square footage

Earl, please review.

Hello Madonna,

7,200 tons of cooling was converted to 5,760 tons of chiller capacity by $7200 \times (12,000 \text{ Btu per hour} / 15,000 \text{ Btu per hour})$.

To verify this number, I used the square footage breakdown of the proposed project's scope to estimate the total estimated chiller capacity, which was close to 5,760 tons.

Thank you.

Jin Hwang
Civil Engineering Associate
Los Angeles Department of Water and Power
Water Executive / Water Resources
111 N. Hope St. Room 1468
Los Angeles, CA 90012
213-367-4845

From: Madonna Marcelo [<mailto:m.marcelo@eyestoneeir.com>]
Sent: Thursday, August 04, 2016 7:51 AM
To: Hwang, Jin; 'Alejandro Huerta'
Cc: Moosbrugger, Earl
Subject: RE: Crossroads WSA - question on square footage

Hi Jin,

One last question – how did you convert 7,200 tons of cooling to 5,760 chiller capacity? Was it a straight factor of 80% that we can apply to any quantity of cooling or was it calculated taking into account some other factors?

Thanks!

Madonna

From: Hwang, Jin [<mailto:Jin.Hwang@ladwp.com>]
Sent: Wednesday, August 03, 2016 1:02 PM
To: Madonna Marcelo; 'Alejandro Huerta'
Cc: Moosbrugger, Earl
Subject: RE: Crossroads WSA - question on square footage

Hello Madonna,

The assumptions we made to estimate the cooling tower water demand were:

- 7,200 tons cooling (converted to 5,760 tons chiller capacity)
- Operating 24 hours/day, 365 days/year

Please let me know if you have any questions. Thank you.

Jin Hwang
Civil Engineering Associate
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213-367-4845

From: Madonna Marcelo [<mailto:m.marcelo@eyestoneeir.com>]
Sent: Friday, July 29, 2016 3:14 PM
To: Hwang, Jin; 'Alejandro Huerta'
Cc: Moosbrugger, Earl
Subject: RE: Crossroads WSA - question on square footage

Hi Jin,

What assumptions did you make for estimating water usage by the cooling towers? The reason I'm asking is that we are analyzing alternatives right now and want to apply the same assumptions for calculating water usage for each of the alternatives. That way, we can have an apples-to-apples comparison when looking at the water usage of each alternative against that of the Project. FYI, none of the alternatives are larger than the Project, but we'd like to be able to quantify instead of just stating that each of the alternatives would have less water demand than the Project.

Thanks and have a great weekend!

Madonna

Madonna Marcelo
Principal Planner



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Please consider the environment before printing this email.

From: Hwang, Jin [<mailto:Jin.Hwang@ladwp.com>]
Sent: Friday, July 29, 2016 2:05 PM
To: 'Alejandro Huerta'; Madonna Marcelo
Cc: Moosbrugger, Earl
Subject: RE: Crossroads WSA - question on square footage

The board agenda and WSA are posted at www.ladwp.com. Please select “About Us”, “Who We Are”, “Board of Commissioners”, and “Agenda for August 2, 2016”. Please see item no. 20 to get a pdf copy of the WSA.

Below is the meeting date/time and location information.

BOARD OF WATER AND POWER COMMISSIONERS
DEPARTMENT OF WATER AND POWER OF THE CITY OF LOS ANGELES
Room 1555-H, 111 North Hope Street, Los Angeles, CA 90012
TUESDAY, AUGUST 2, 2016
(10:00 a.m. for policy and information item discussion)
12:30 p.m. for items for approvals (such as **WSAs**)

Please let me know if you plan to attend the meeting (not required). Thank you.

Jin Hwang
Civil Engineering Associate
Los Angeles Department of Water and Power
Water Executive / Water Resources
111 N. Hope St. Room 1468
Los Angeles, CA 90012
213-367-4845

From: Alejandro Huerta [<mailto:alejandro.huerta@lacity.org>]
Sent: Friday, July 29, 2016 9:26 AM
To: Hwang, Jin
Cc: Madonna Marcelo; Moosbrugger, Earl
Subject: Re: Crossroads WSA - question on square footage

Hello. The Aug. 2nd board meeting isn't online yet, so please keep us informed if/when the Crossroads WSA will be considered.

My best,

ALEJANDRO A. HUERTA
[Los Angeles City Planning](#)
Environmental Analysis
[Major Projects](#)
213•978•1454



On Mon, Jul 11, 2016 at 10:39 AM, Hwang, Jin <Jin.Hwang@ladwp.com> wrote:

Please see the attached Table I, which is part of the WSA report we can share at this time.

The WSA report will be posted on the Board's website on Friday prior to the board meeting. We are targeting the August 2, 2016 board meeting, and the board meeting is usually held at 111 N. Hope Street, Los Angeles, in Room 1555-H at 11 a.m. However, we'll not know for sure if the Crossroads WSA will go to the board on August 2, 2016 until the meeting agenda is posted on the board's website on Friday prior to the board meeting (7/29/16).

We will let you know when we see the meeting agenda posted on 7/29/16, or you can also check by going to www.ladwp.com, and selecting "About Us", "Who We Are", "Board of Commissioners", and "Agenda for August 2, 2016".

You are welcome to, but not required to, attend the board meeting. Please let us know if you plan to attend the board meeting. Thank you.

Jin Hwang

Civil Engineering Associate

Los Angeles Department of Water and Power

Water Executive / Water Resources

111 N. Hope St. Room 1468

Los Angeles, CA 90012

[213-367-4845](tel:213-367-4845)

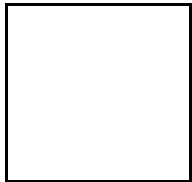
From: Alejandro Huerta [mailto:alejandro.huerta@lacity.org]
Sent: Monday, July 11, 2016 10:05 AM
To: Madonna Marcelo
Cc: Hwang, Jin; Moosbrugger, Earl
Subject: Re: Crossroads WSA - question on square footage

Hello Jin. Please let us know the final date/time/location of the board meeting. Thanks, Madonna.

My best,

ALEJANDRO A. HUERTA

[Los Angeles City Planning](#)



On Mon, Jul 11, 2016 at 9:54 AM, Madonna Marcelo <m.marcelo@eyestoneeir.com> wrote:

Hi Jin,

Yes, you are correct. The 1.4 million sf of floor area does not include the parking and landscaping.

When you've completed the report, is it possible to get a copy in advance of the Board meeting?

Thanks!

Madonna

On Jul 11, 2016, at 9:49 AM, Hwang, Jin <Jin.Hwang@ladwp.com> wrote:

Good morning Madonna,

The calculations are complete, and we are still targeting an early-August Board date.

I am preparing for our internal meeting prior to the board meeting, and came across a question. Is the 1,432,500 sf of floor area including all proposed indoor square footage, separate from 1,191,339 sf of parking? So the total proposed project square footage would be 1,432,500 sf floor area + 1,191,339 sf parking + 31,507 sf landscape = approximately 2.7 million sf?

Thank you.

Jin Hwang

Civil Engineering Associate

Los Angeles Department of Water and Power

Water Executive / Water Resources

111 N. Hope St. Room 1468

Los Angeles, CA 90012

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