

From: Karl Kim
To: Scheibe, Mark
CC: Hamayasu, Toru
Sent: 10/6/2008 2:43:27 PM
Subject: RE: additional information

Can you show me how this was calculated?

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On Mon, 6 Oct 2008, Scheibe, Mark wrote:

>
> Karl,
>
> Here is information on energy consumption. Will get back to you on
> other questions.
>
>
> 340 MWH/day or 1,160 Million BTUs/day.
>
> This is calculated from 63,000 BTU/rail-vehicle mile
>
>
>
> Mark
>
>
> -----Original Message-----
> From: Hamayasu, Toru [mailto:thamayasu@honolulu.gov]
> Sent: Monday, October 06, 2008 9:07 AM
> To: Scheibe, Mark
> Subject: Fw: additional information
>
>
>
> -----Original Message-----
> From: Karl Kim <karlk@hawaii.edu>
> To: Hamayasu, Toru <thamayasu@honolulu.gov>
> Sent: Mon Oct 06 07:51:08 2008
> Subject: additional information
>
>
> Toru,
>
> It would be really helpful if I could get more detailed information on
> the O/M costs for Sacramento. Is it possible to get a copy of the O/M
> spreadsheet (both that which was used for FY03-04 and the 2007 data)?
> I'm struggling over how to justify the reasonableness of our O/M
> estimates.
>
> I also need some help on the utility costs. In the technology selection
> papers you sent me, there are estimates of energy requirements - not
> believable - submitted by Panos - one substation per mile - 3 MW -

> requiring 30 substation for 90 MW! Requiring 7- 20 millions gallons of
> fuel per year. Can you get for me more realistic energy requirements.
> How many kilowatts per hour? Per vehicle? To operate the system?
>
> Can you get for me the fixed guideway costs for Soundtransit's Seattle
> to SeaTac Airport - arranged in similar way to the spreadsheet you did
> for Horner?

> This would help me to validate the operating and capital costs.

> Thanks, Karl

> +-----+

> Karl Kim, Ph.D.

> Professor

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