

Docket Optical System - Fwd: Re: Delivery trucks

From: Jim Adams
To: Docket Optical System
Date: 1/11/2010 11:16 AM
Subject: Fwd: Re: Delivery trucks

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DATE	JAN 11 2010
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 California Energy Commission
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>>> Matt Trask 1/8/2010 3:10 PM >>>

Hi Jim:

It's because they intend to use single-flash technology instead of multi-flash. One of the reasons they switched is that single flash produces essentially no waste compared to multi. I can explain the difference when I see you on Monday if you're interested.

regards,
 Matt

>>> Jim Adams 1/8/2010 2:45 PM >>>

Matt,

Why would there be 0.1 the amount of operation truck deliveries with the amended project? The SSU6 decision noted a minimum of 32 truck deliveries daily. Your thoughts?

Jim

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Table 2.22 GHG Emissions from O and M Equipment and Vehicles

O&M Vehicle	Fuel	Number per Day ¹	Usage (miles/day)	CO ₂ EF ² , lb/mile	CH ₄ EF ³ , lb/mi	N ₂ O EF ³ , lb/mi	CO ₂ (metric tons/yr)	CH ₄ (metric tons/yr)	N ₂ O (metric tons/yr)	CO ₂ eq. (metric tons/yr)
Worker Commute	G	69	60	0.64	0.0003	0.0004	435.93	0.18	0.30	533
On-Site Watering Truck	G	1	10	1.37	0.0003	0.0004	2.27	0.0004	0.0007	3
On-Site Dump Truck	G	1	10	1.37	0.0003	0.0004	2.27	0.0004	0.0007	3
On-Site Pickup Truck	G	1	10	1.03	0.0001	0.0001	1.70	0.0002	0.0002	2
Off-Site Delivery Trucks	D	3	50	3.75	0.0003	0.0004	93.13	0.0066	0.0110	97
Off-Site Pickup Trucks	G	1	50	1.03	0.0001	0.0001	8.50	0.0009	0.0011	9
Off-Site Dump Trucks	G	1	50	1.37	0.0003	0.0004	11.36	0.0022	0.0037	13

O&M Equipment	Fuel	Usage (hr/hr)	Usage (hr/year)	CO ₂ e ⁴ EF, lb/hr	CO ₂ e Emissions, metric tons/hr	CO ₂ e emissions, metric tons/yr
Forklift	D	1	156	59	0.03	4
Boom Truck	G	1	450	106	0.05	22
Crane-50T	D	1	384	112	0.05	20
Manlift	D	1	384	23	0.01	4
Carry Deck	D	1	156	23	0.01	2

Note:

1. Number of workers from Section 5.11 Socioeconomics
2. CO₂ emission factors from EMFAC output for ICAPCD

3. CH₄ and N₂O emission factors from ARB Compendium of Emission Factors and Methods to Support Mandatory Reporting of Greenhouse Gas Emissions, Appendix A

4. CO₂e emission factor calculated from CO₂, CH₄, N₂O emission factors derived from OFFROAD model for ICAPCD

CO₂e = CO₂ emissions + 21 x CH₄ emissions + 310 x N₂O emissions