

Andrea Wilkes

From: Carr, Ed [ECarr@icfi.com]
Sent: Thursday, December 17, 2009 4:43 PM
To: Holder, Christopher
Cc: Carr, Ed; Andrea Wilkes
Subject: Fuel Usage for NTS Bus Fleet for Commuters

Chris:

I was able to reach Jim Prsybylski (NNSA/NSO – 702-295-7047) yesterday to discuss their bus fleet operations used to transport personnel to and from the NTS from Las Vegas. Here are the details as they currently operate.

These buses are operated under subcontract so DOE does not actually operate the fleet but issues a contract for their operation.

They operate 17 buses with a total number of miles for all the buses averaging 11,300 miles per week.
The buses hold 49 passengers and their average occupancy rate is 60%.
The buses are all 2003 VanHool buses which meet the 1998 EPA heavy-duty diesel engine standards.
These buses only operate burning ultra low diesel fuel (no bio-diesel).
The buses average about 5 miles per gallon burning diesel fuel

Starting in 2011 their new contract will require that the bus fleet meet EPA's 2010 heavy-duty bus emission standards. (These are completely phased in from the 2007 engine standards). So this should show a significant emission reduction at least for PM, NOx and NMHC – probably no change for CO. www.dieselnet.com/standards/us/hd.php

We need to estimate all of the emissions from these mobile sources as NTS does not separately report. Use the transit bus conversion factor of 4.679 bhp-hr/mi to convert to g/mi emission rates (EPA420-P-98-015, May 1998).

Thanks,

Ed

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