

DC-8 04/11/13

Aircraft: [DC-8 - AFRC](#) (See full schedule)

Flight Number: 130305

Payload Configuration: ACCESS 2013

Nav Data Collected: Yes

Total Flight Time: 3.1 hours

Submitted by: Chris Jennison on 04/30/13

Flight Segments:

From:	KPMD	To:	KPMD
Date:	04/11/13		
Flight Time:	3.1 hours		
Log Number:	138004	PI:	Bruce Anderson
Funding Source:	Dan Bulzan - NASA - GRC ARMD Subsonic Fixed Wing CEE Manager		
Purpose of Flight:	Science		
Comments:	This was the fourth ACCESS test fuel exhaust emissions sampling flight with LaRC HU-25C. Fuel management procedures were modified with particular care to avoid pressurizing of the crossfeed manifold with center aux fuel except when all four engines were to operate on HEFA blend fuel. However, a rising fuel level was again detected in tank #3 when operating on HEFA blend fuel. It is now understood that the two center aux tank boost pumps that are located and submerged in tank #3 supply fuel at a greater volume than it is consumed and the pumps bypass the excess into tank #3. We now believe that all engine #2 data is valid but all engine #3 baseline JP-8 data suffers from some unknown quantity of contamination by HEFA blend fuel.		

Flight Hour Summary:

	138004
Flight Hours Approved in SOFRS	17
Total Used	17.8
Total Remaining	-0.8

138004 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
02/22/13	130301	Other	1.3	1.3	15.7	
02/28/13	130302	Science	3.3	4.6	12.4	
03/06/13	130303	Science	3.5	8.1	8.9	
04/11/13	130304	Science	3.1	11.2	5.8	
04/11/13	130305	Science	3.1	14.3	2.7	
04/12/13	130306	Science	3.5	17.8	-0.8	

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

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