

SCHEDULE 7

ANAHIM LAKE TECHNICAL INFORMATION

Issue Date: June 29, 2010

1. OVERVIEW OF DISTRIBUTION/GENERATION SYSTEM

The Anahim Lake Service Area is a non-integrated area which is not connected to the BC Hydro integrated system. The Anahim Lake Service Area is comprised of Anahim Lake and Nimpo Lake and is located 316 km west of Williams Lake. BC Hydro supplies electricity to the 25 kV local distribution system from a Diesel Generating Station (DGS) and one 25 kV feeder (25F51).

The Anahim Lake DGS (the “*AHM DGS*”) is comprised of 6 mobile diesel generators with a combined capacity of 3.65 MW

Road Mobile Gen Sets
M098G1 – 600 kW
M113G1 – 600 kW
M164G1 – 1000 kW
M166G1 – 850 kW
M168G1 – 300 kW
M168G2 – 300 kW

A single line diagram of the AHM DGS and distribution operating diagrams for AHM 25F51 are available upon request.

2. ADDITIONAL TECHNICAL INFORMATION ON THE OPPORTUNITY

2.1 Anahim Lake Service Area Electricity Supply

The characteristics of electrical energy for Anahim Lake Service Area for the last 10 years are shown in Charts 2.1 and 2.2.

Chart 2.1 – Prime Energy

Station	F2001	F2002	F2003	F2004	F2005	F2006	F2007	F2008	F2009	F2010
Prime Energy	(GWh)	(GWh)	(GWh)	(GWh)	(GWh)	(GWh)	(GWh)	(GWh)	(GWh)	(GWh)
Anahim DGS	6.9	6.6	7.2	7.7	7.9	7.9	7.3	7.6	6.9	6.8

Note: AHM DGS totals are generated energy minus station service.

Chart 2.2 – Prime Power

Station	F2001	F2002	F2003	F2004	F2005	F2006	F2007	F2008	F2009	F2010
Prime Power	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)
Anahim DGS	1.4	1.4	1.5	1.7	1.8	1.6	1.6	1.6	1.6	1.4

Chart 2.2 AHM DGS Peak Loads

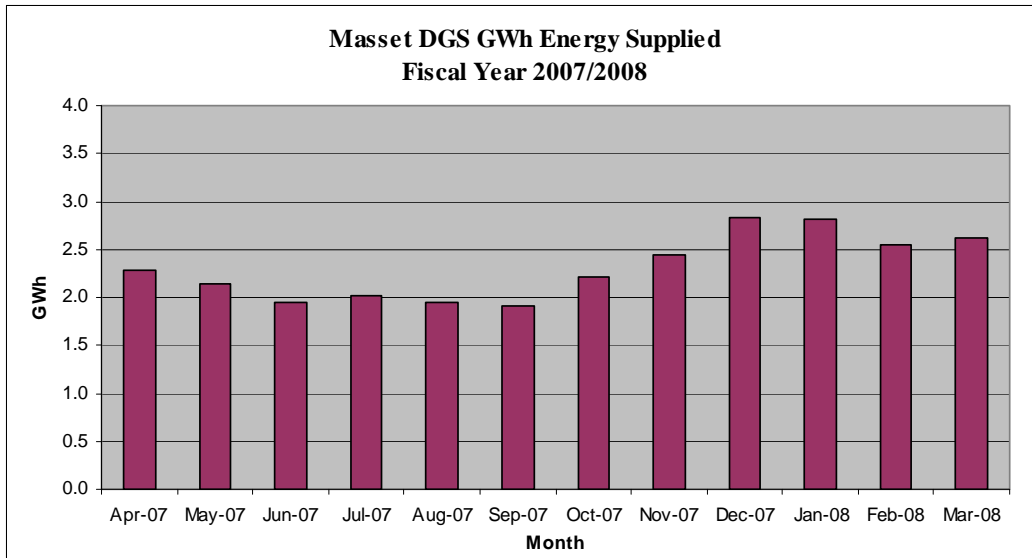
2.2 Demand Load & Generation Output Assessment

The electrical energy generated by the existing AHM DGS is intended to be reduced or displaced by Biomass Energy to be provided by a successful Proponent. As a base assumption, the AHM DGS will remain as standby units and may also operate as prime units to support black start and supplementary back-up for N-1 criterion.

2.3 Historical & Forecasted Demand

The typical, historical recorded monthly generated energy, in GWh, for the AHM DGS is shown in Chart 2.3.

Chart 2.3 – AHM DGS Typical Historical Monthly Generated Energy GWh for 2009 – 2010



The forecasted load energy (GWh, for years F2011 to F2031) and the total forecasted generated power in the AHM DGS are tabulated in Chart 2.4 below

Chart 2.4 – AHM Forecasted Annual Energy GWh

AHM Forecasted Load and Generation in MWh (F2011 – F2031)						
Fiscal Year	Low Load	Low Gen	Probable Load	Probable Gen	High Load	High Gen
	MWh	MWh	MWh	MWh	MWh	MWh
F2011	5,852	6,440	6,142	6,759	6,761	7,440
F2012	5,937	6,533	6,232	6,858	6,858	7,547
F2013	6,027	6,632	6,326	6,961	6,960	7,659
F2014	6,107	6,721	6,411	7,055	7,051	7,760
F2015	6,146	6,763	6,435	7,081	7,076	7,787
F2016	6,180	6,801	6,471	7,120	7,115	7,829
F2017	6,214	6,838	6,505	7,159	7,153	7,871
F2018	6,243	6,870	6,535	7,191	7,186	7,907
F2019	6,274	6,904	6,568	7,228	7,222	7,947
F2020	6,319	6,953	6,614	7,278	7,272	8,002
F2021	6,364	7,004	6,661	7,330	7,324	8,059
F2022	6,406	7,049	6,704	7,377	7,371	8,111
F2023	6,445	7,093	6,745	7,423	7,416	8,161
F2024	6,491	7,143	6,792	7,474	7,468	8,218
F2025	6,533	7,189	6,836	7,523	7,516	8,271
F2026	6,572	7,232	6,876	7,567	7,560	8,319
F2027	6,626	7,291	6,932	7,628	7,621	8,387
F2028	6,675	7,345	6,983	7,684	7,677	8,447
F2029	6,722	7,397	7,031	7,738	7,730	8,506
F2030	6,761	7,439	7,071	7,782	7,774	8,555
F2031	6,800	7,483	7,112	7,826	7,818	8,604

2.4 **Peak Demand (MVA)**

At the station level, the forecasted peak normalized uncompensated MVA for the AHM DGS from F2011 to F2031 is noted on Chart 2.5 below, based on a low (0.40% growth) and high (1.07% growth) projected growth rate for the Anahim Lake Service Area.

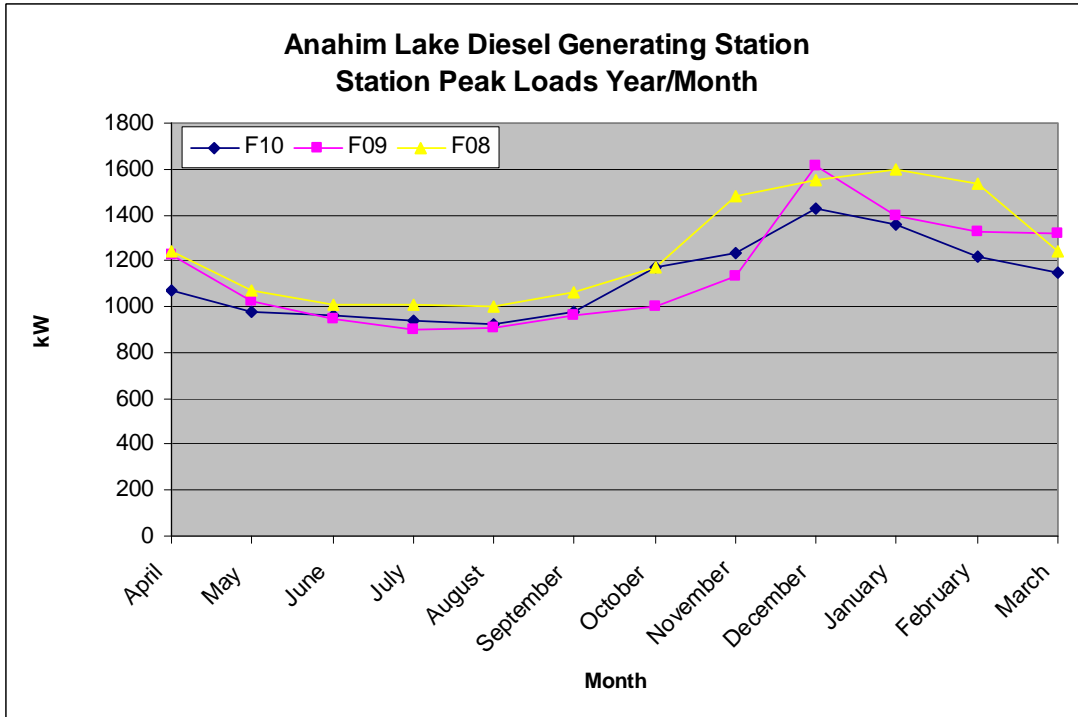
Chart 2.5 – AHM Normalized Forecasted Peak kW Uncompensated

AHM Forecasted Peak in kW (F2011 – F2031)			
Fiscal Year	Low Peak kW	Probable Peak kW	High Peak kW
F2011	1,395	1,464	1,612
F2012	1,415	1,486	1,635
F2013	1,437	1,508	1,659
F2014	1,456	1,528	1,681
F2015	1,465	1,534	1,687
F2016	1,473	1,542	1,696
F2017	1,481	1,551	1,705
F2018	1,488	1,558	1,713
F2019	1,496	1,566	1,721
F2020	1,506	1,577	1,733
F2021	1,517	1,588	1,746
F2022	1,527	1,598	1,757
F2023	1,536	1,608	1,768
F2024	1,547	1,619	1,780
F2025	1,557	1,630	1,792
F2026	1,567	1,639	1,802
F2027	1,579	1,652	1,817
F2028	1,591	1,664	1,830
F2029	1,602	1,676	1,843
F2030	1,612	1,686	1,853
F2031	1,621	1,695	1,864

2.5 **Other Useful Charts**

Chart 2.6 illustrates typical electrical loads in kW for the AHM DGS station peak loads.

Chart 2.6 - Monthly Station Peak loads for Anahim Lake



Station load profile for various months as shown in Charts 2.7 to 2.10 for the Anahim DGS.

Chart 2.7

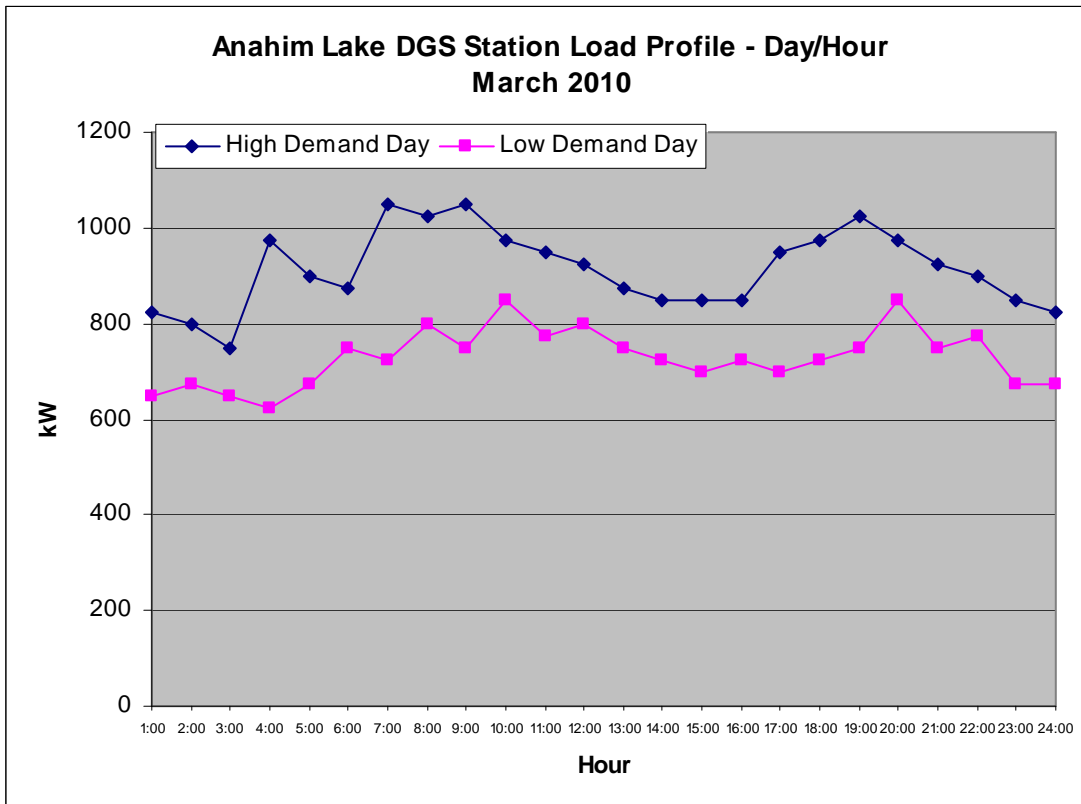


Chart 2.8

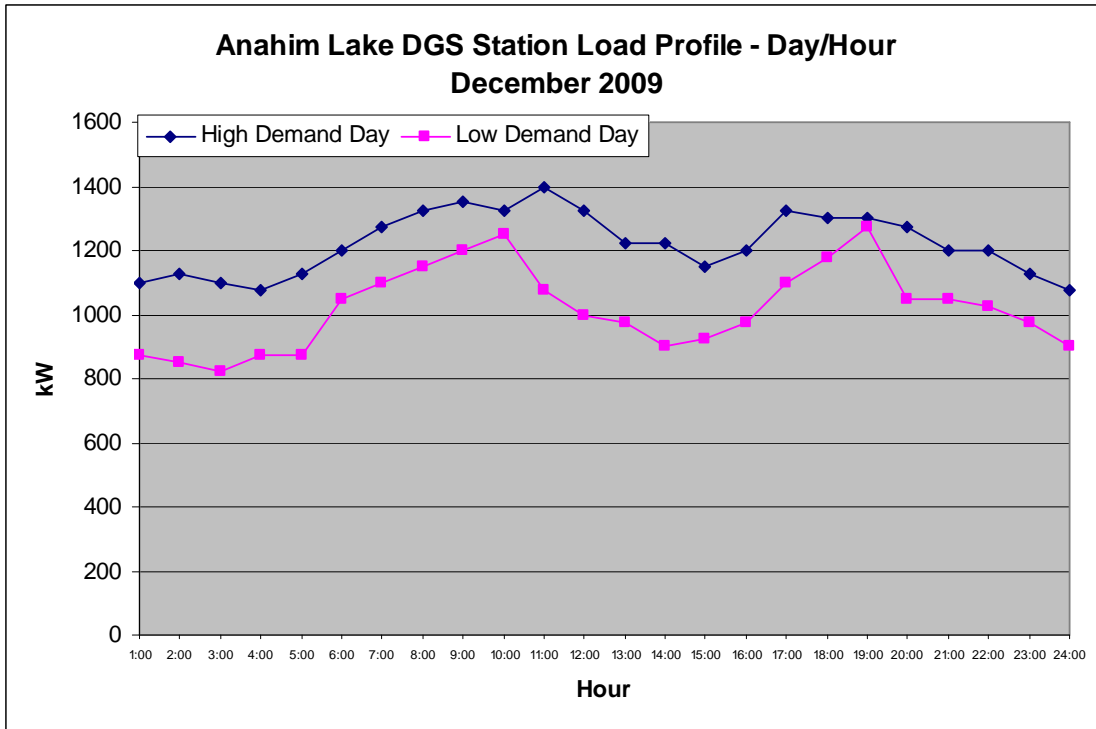


Chart 2.9

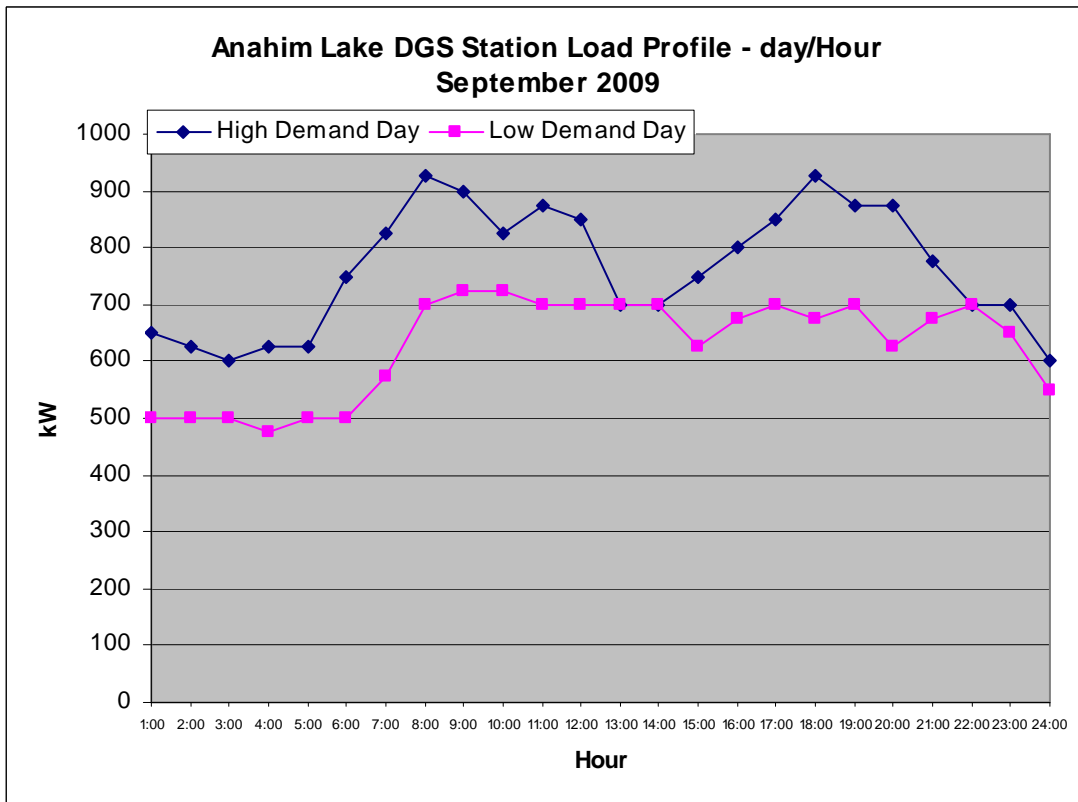


Chart 2.10

