

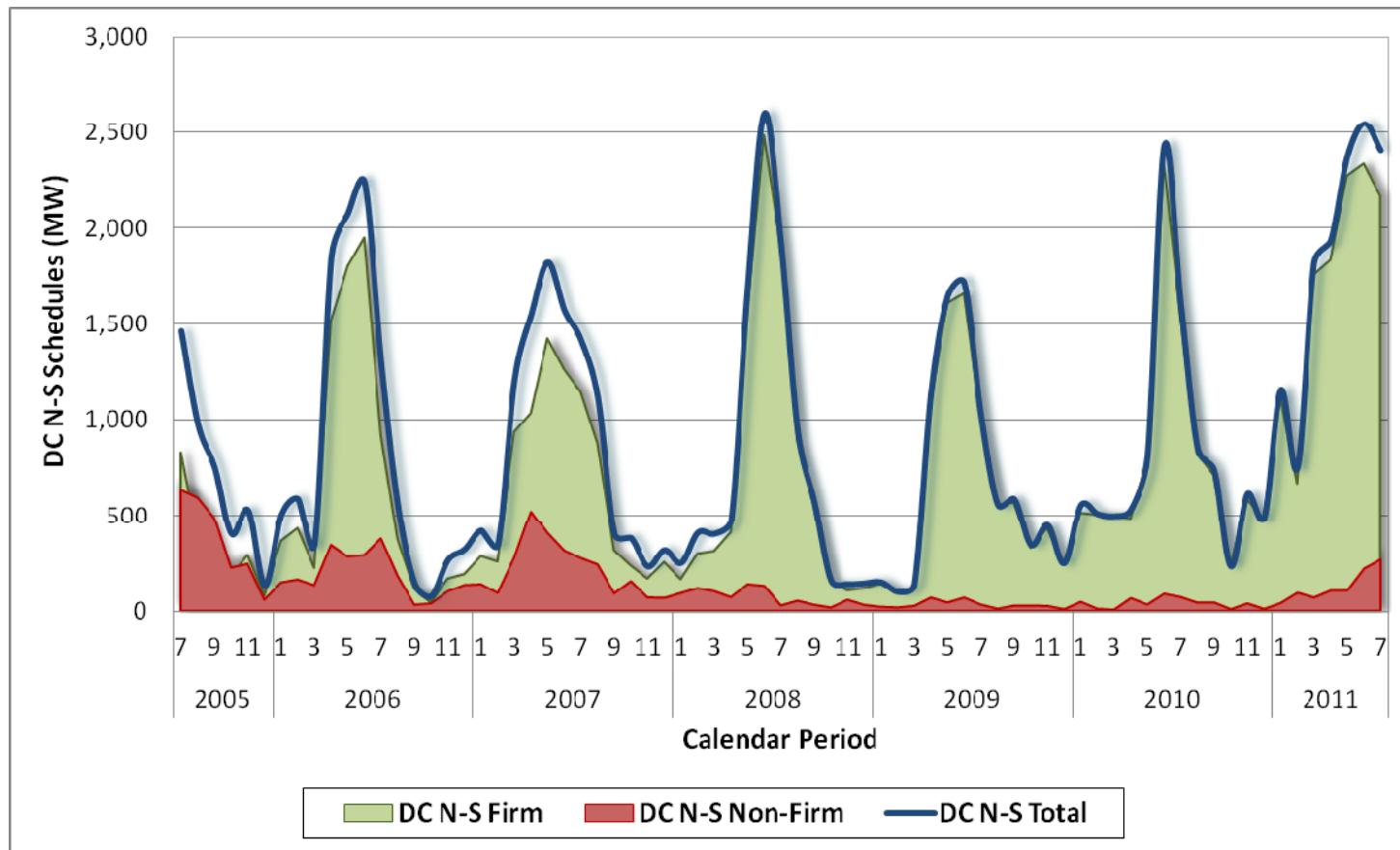
PDCI Upgrade Historical Utilization

Customer Forum 36

October 25, 2012



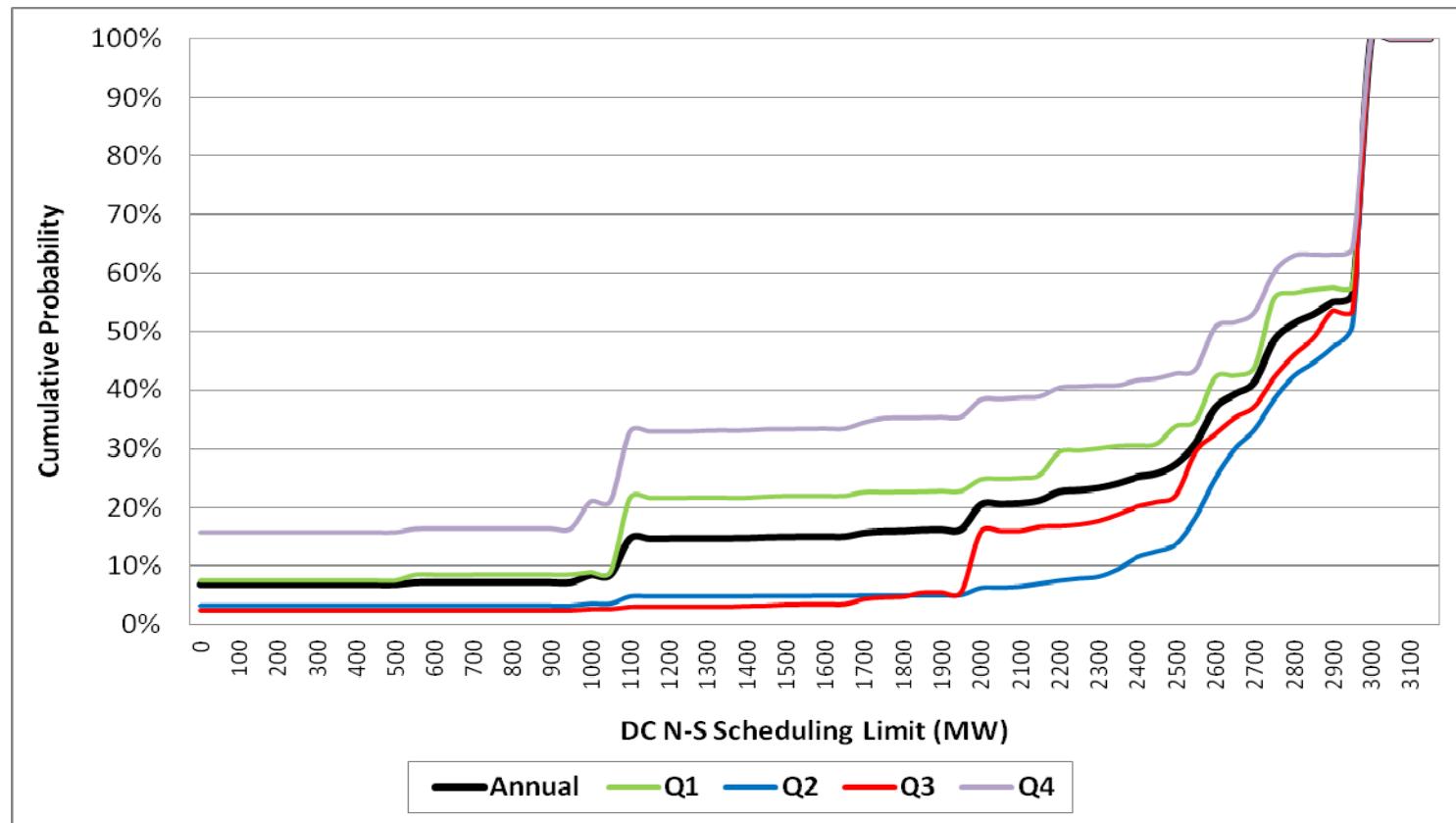
PDCI Firm and Non-Firm Schedules



* Firm schedules include long-term and short-term transmission service

Distribution of PDCI N-S Scheduling Limit

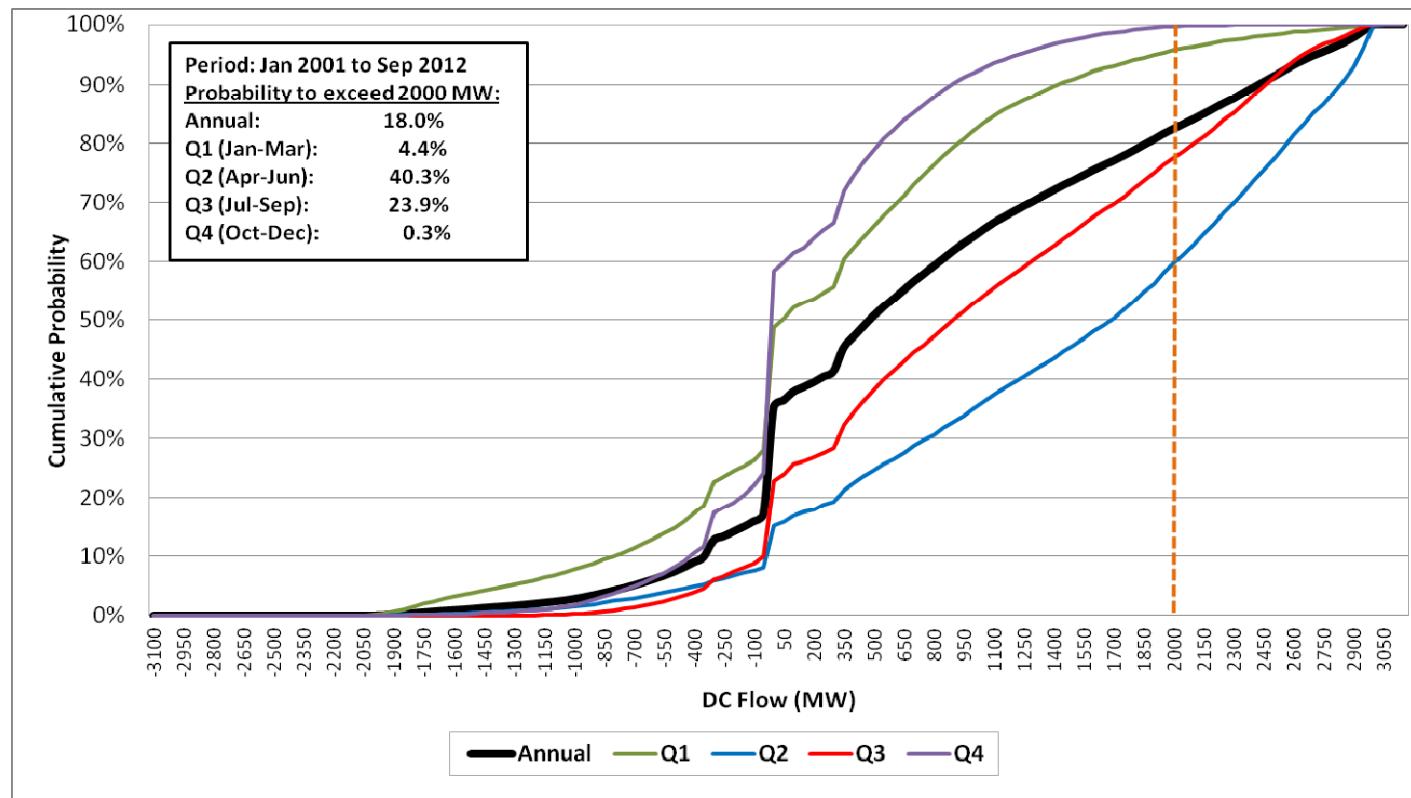
- Historical PDCI N-S Schedule Limit from Jan 2001 through Sep 2012*.
- N-S Schedule Limit is higher than 2000 MW 80% of the time; and 94% of the time in Q2 (Apr-Jun) and 84% of the time in Q3 (Jul-Sep).



* 2003-2004 PDCI upgrade period excluded from calculations

Distribution of PDCI Flows

- Historical PDCI flows from Jan 2001 through Sep 2012*.
- Most likely to exceed 2000 MW in flows during Q2 NW hydro run-off (40.3% of hours) and Q3 SW summer loading (23.9% of hours).
- Negligible probability to exceed 2000 MW in S-N direction.

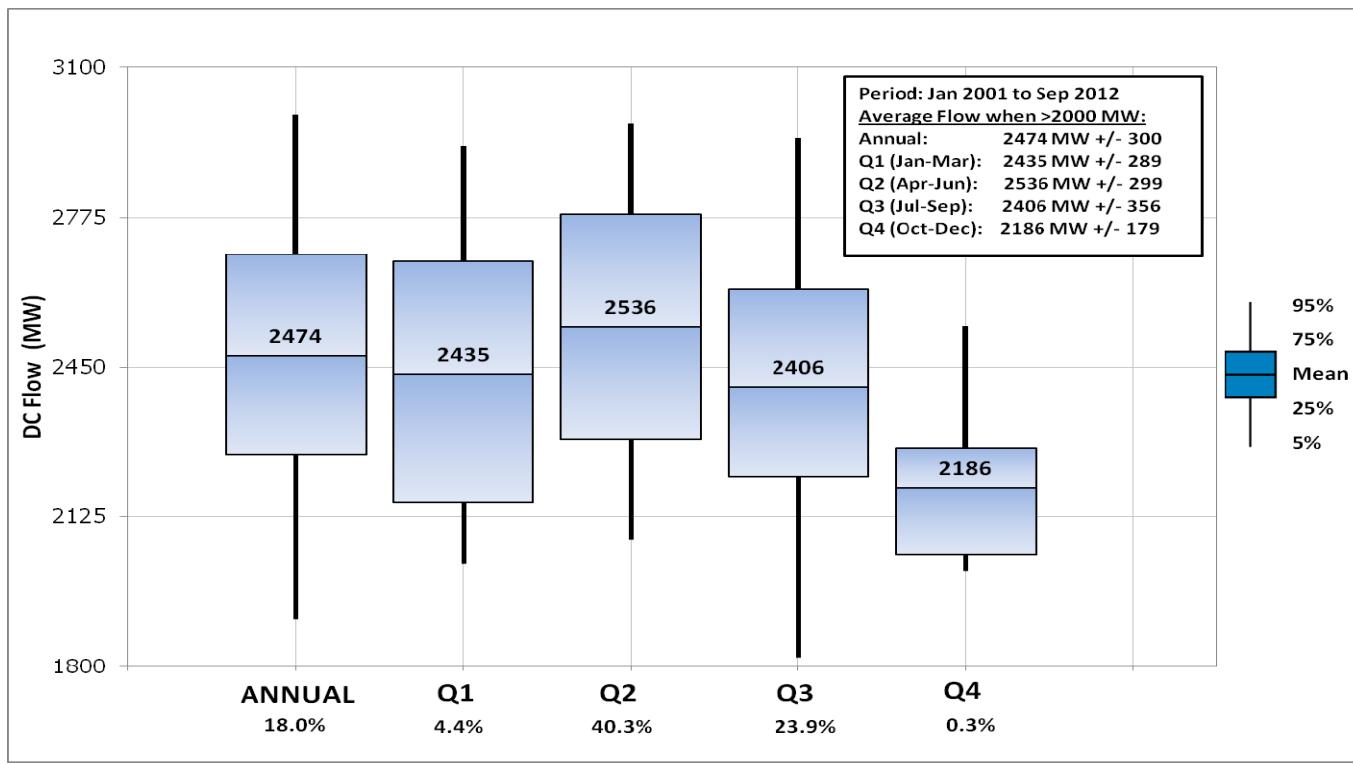


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* 2003-2004 PDCI upgrade period excluded from calculations

Average and Variability of PDCI Flows

- The average and standard deviation of PDCI N-S flows ***during the hours that exceed*** 2000 MW.
- Although MW averages above 2000 MW are statistically equivalent, significant frequency occurs only during Q2 and Q3.
- Approximately 300 MW standard deviation in the flows.



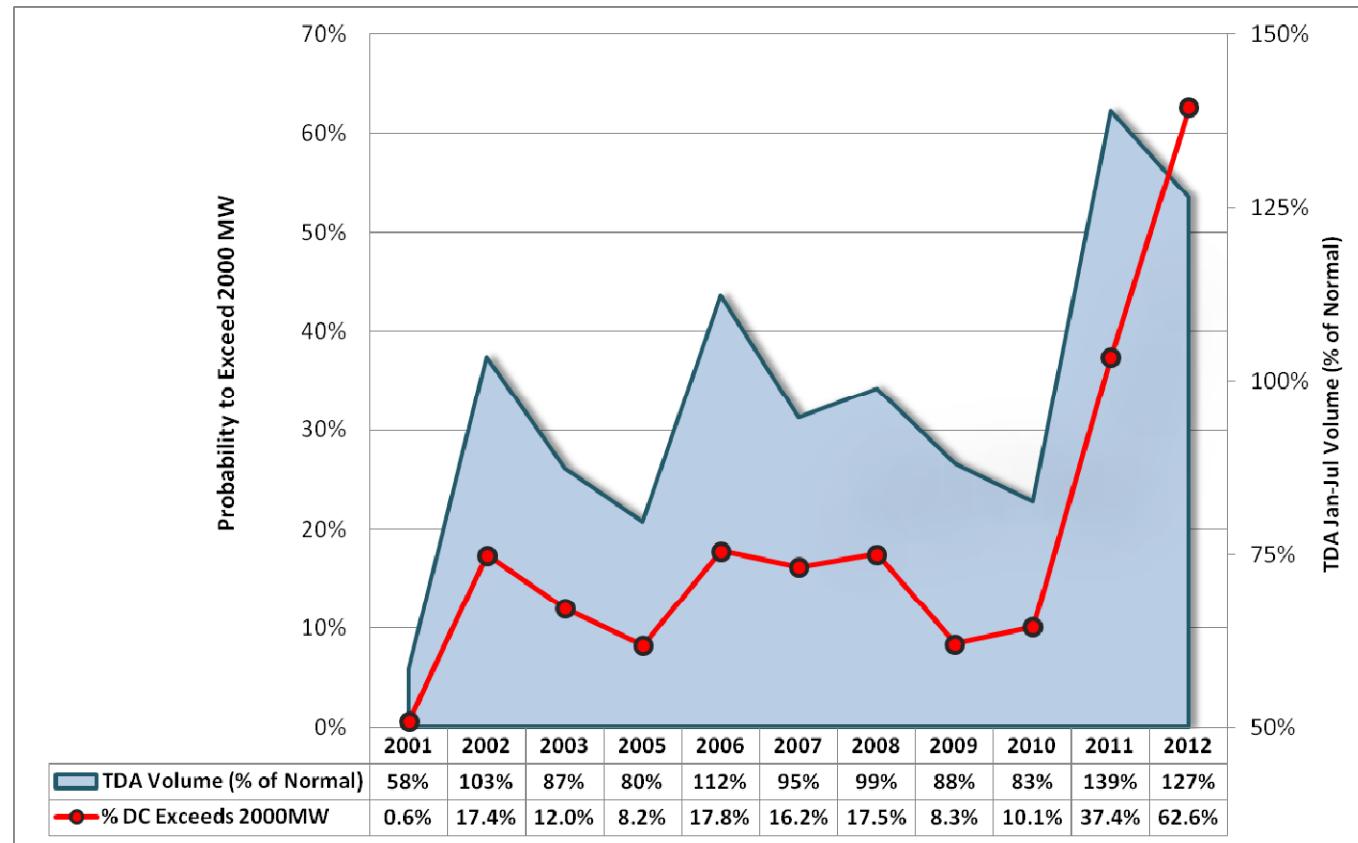
Historical Probability to Exceed 2000 MW

- Historical probability for PDCI flows to exceed 2000 MW by calendar year and calendar quarter.
- Key driver of PDCI utilization is NW hydro as illustrated by the volume at The Dalles Dam.
- Peak wind generation in BPA BAA provided for reference.

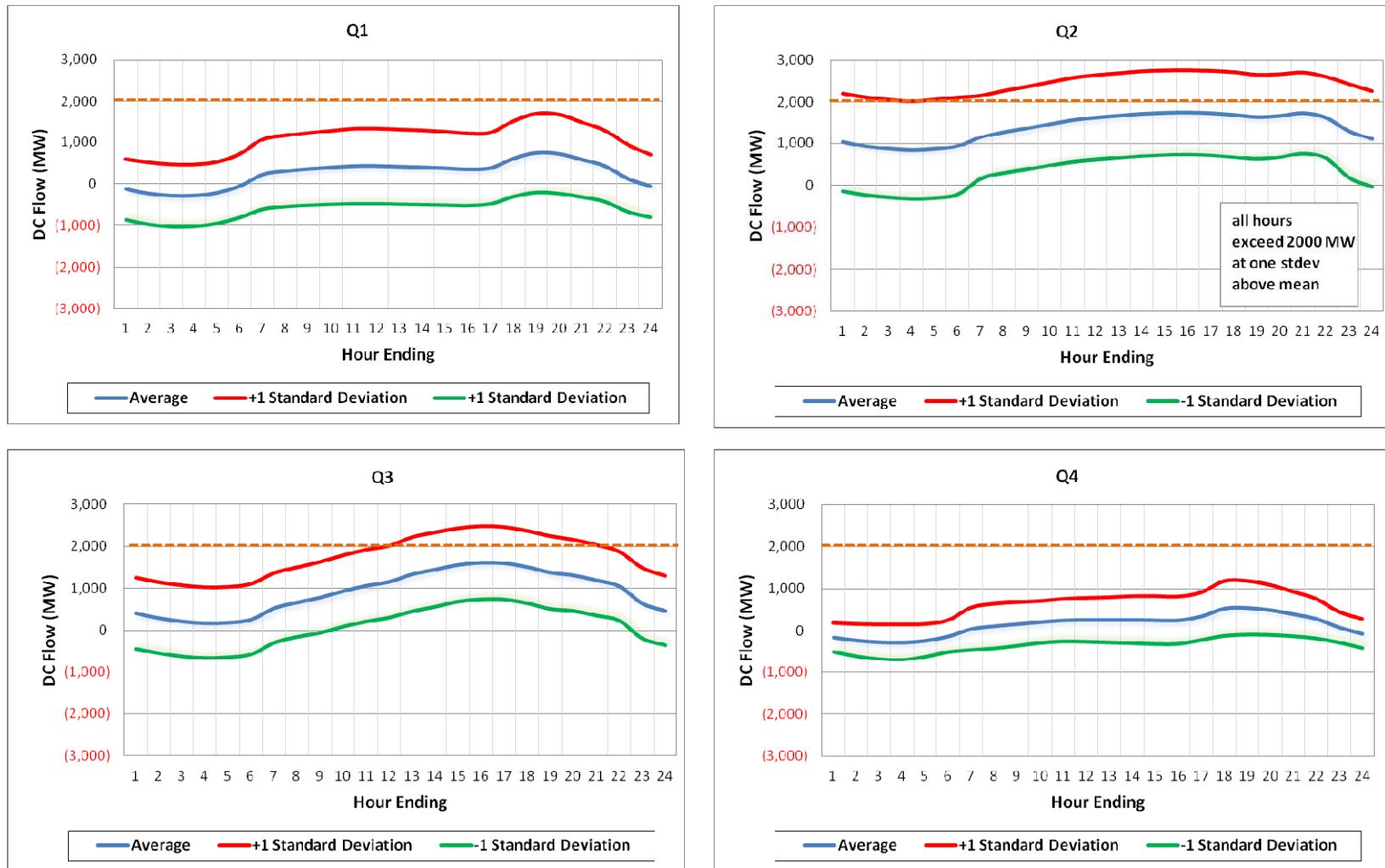
	A	B	C	D	E	F	G	H	I	J	K	L	M
ALL HOURS													
	CAL PERIOD	2001	2002	2003	2005	2006	2007	2008	2009	2010	2011	2012	2001-2012
1	Q1	1.3%	0.1%	2.6%	0.4%	1.3%	10.3%	0.1%	0.0%	0.1%	20.9%	11.2%	4.4%
	Q2	0.2%	39.3%	21.3%	16.2%	59.6%	37.0%	44.4%	27.4%	27.6%	73.3%	97.3%	40.3%
	Q3	1.1%	29.7%	12.0%	15.3%	10.1%	17.3%	25.5%	6.0%	12.2%	54.3%	79.1%	23.9%
	Q4	0.0%	0.3%		0.9%	0.3%	0.0%	0.0%	0.0%	0.4%	1.0%		0.3%
5	ANNUAL	0.6%	17.4%	12.0%	8.2%	17.8%	16.2%	17.5%	8.3%	10.1%	37.4%	62.6%	18.0%
6	HYDRO (TDA) (Jan-Jul Ave Vol in MAF)	59.9	106.1	89.6	81.7	115.2	97.1	101.4	90.3	84.7	142.6	129.8	1929-2011 Average = 102.6
		58%	103%	87%	80%	112%	95%	99%	88%	83%	139%	127%	
8	WIND (Annual Peak Gen in MW)				387	685	1170	1468	2288	2874	3374	4225	

Historical Probability to Exceed 2000 MW

- Graphical representation of the probabilities that PDCI flows exceed 2000 MW largely driven by NW hydro volume at TDA.



Hourly Profile of PDCI Flows

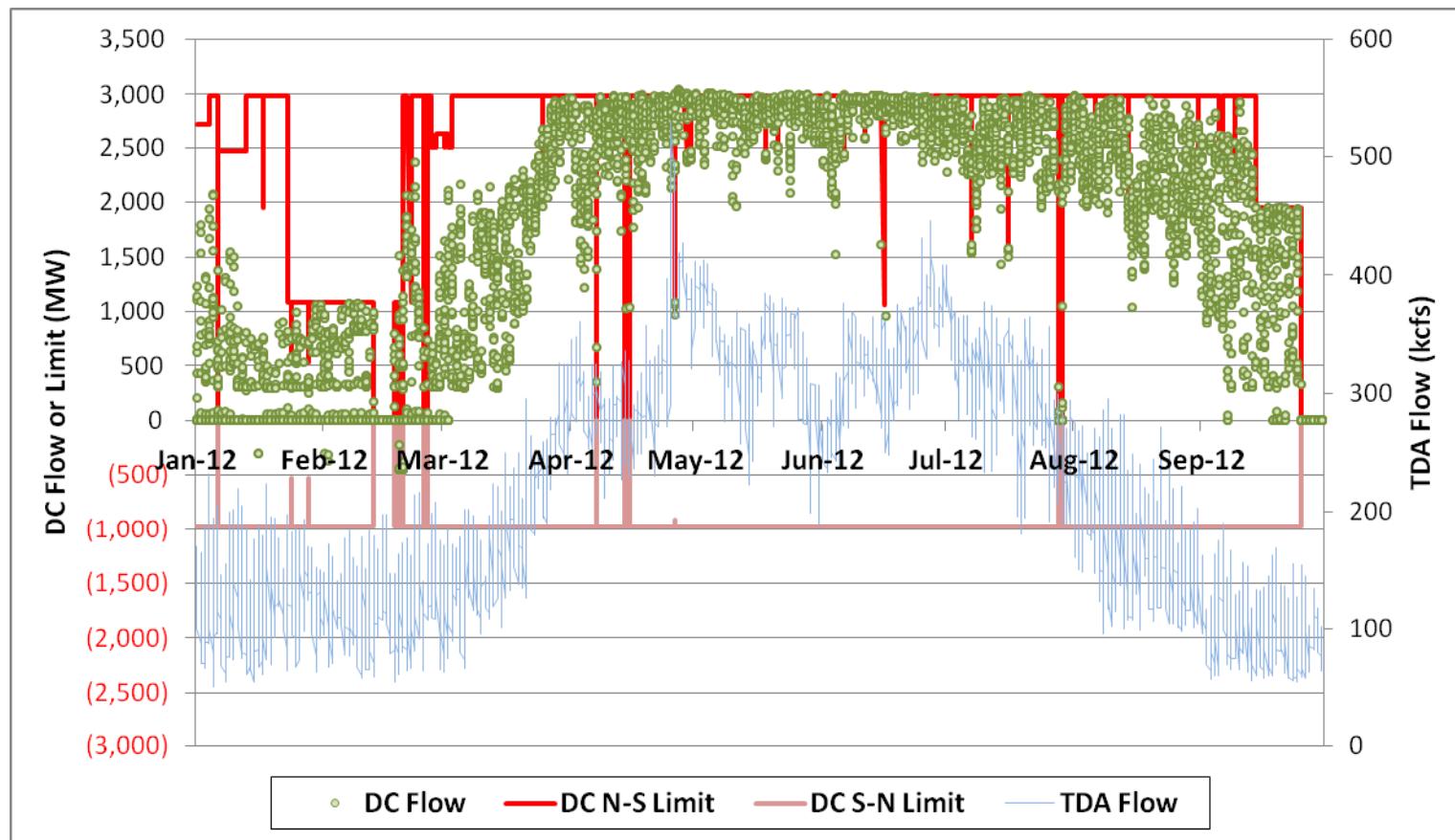


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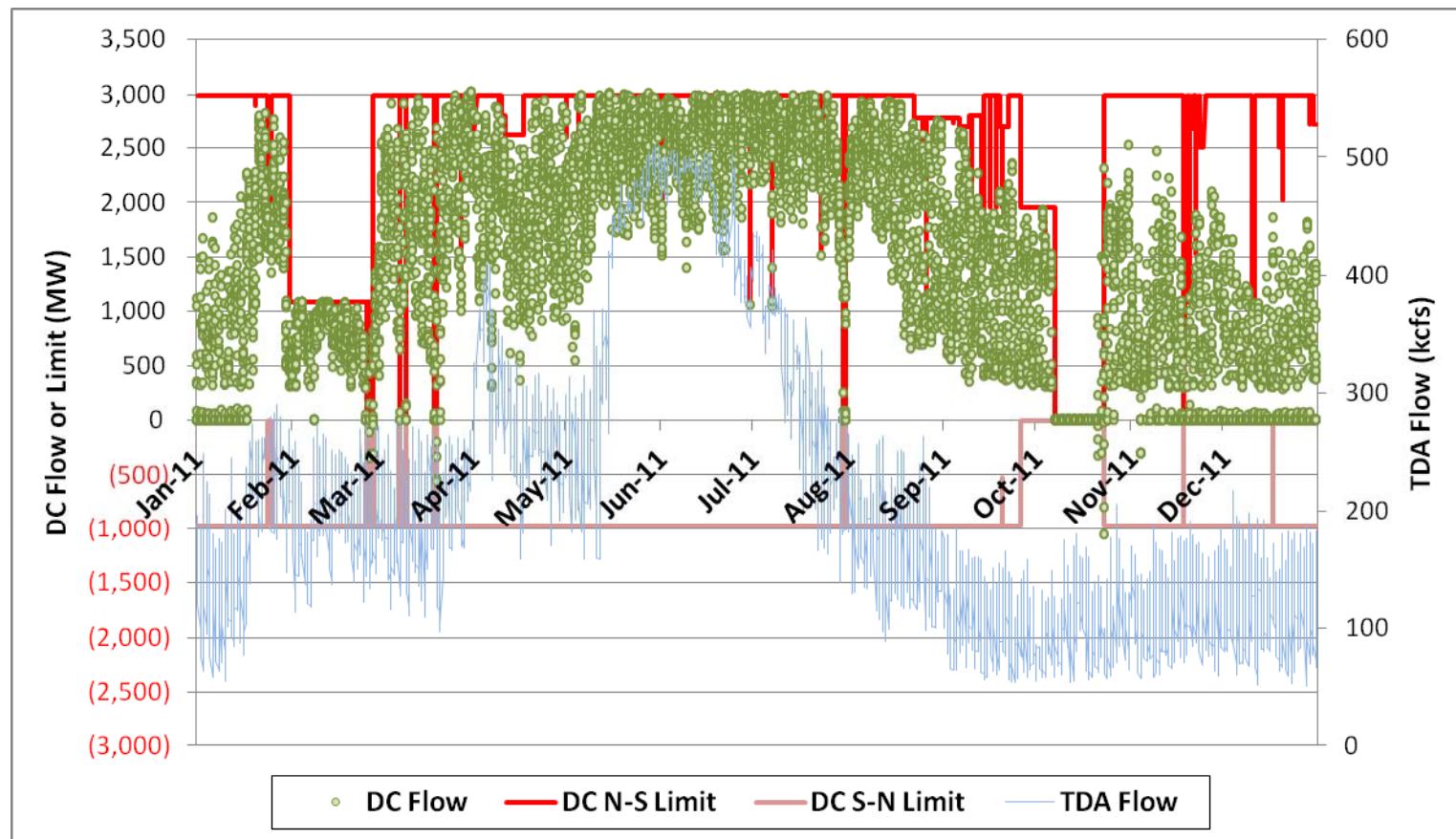
PDCI TRENDS OF FLOWS AND LIMITS BY CALENDAR YEAR

B O N N E V I L L E P O W E R A D M I N I S T R A T I O N

2012

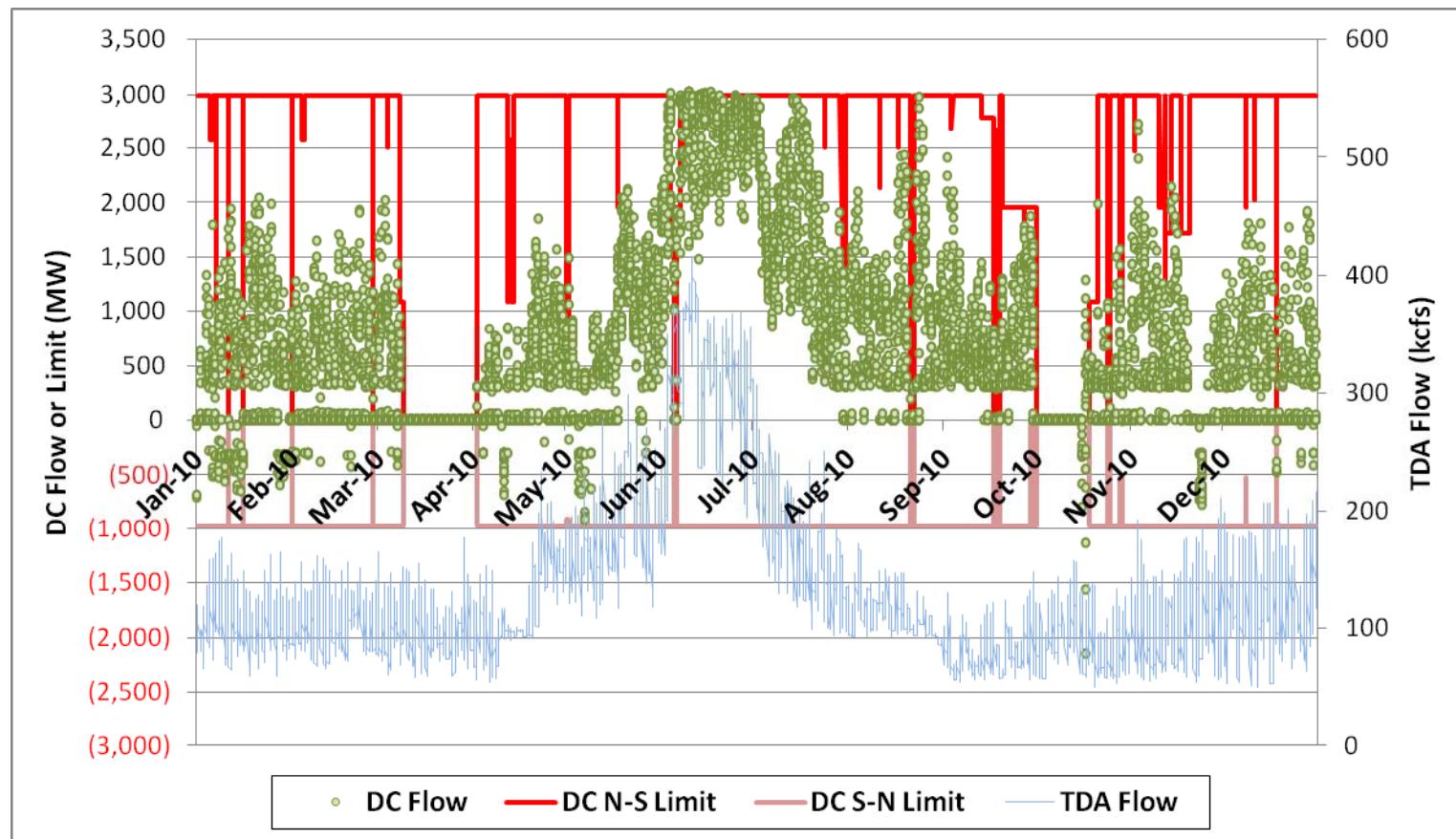


2011

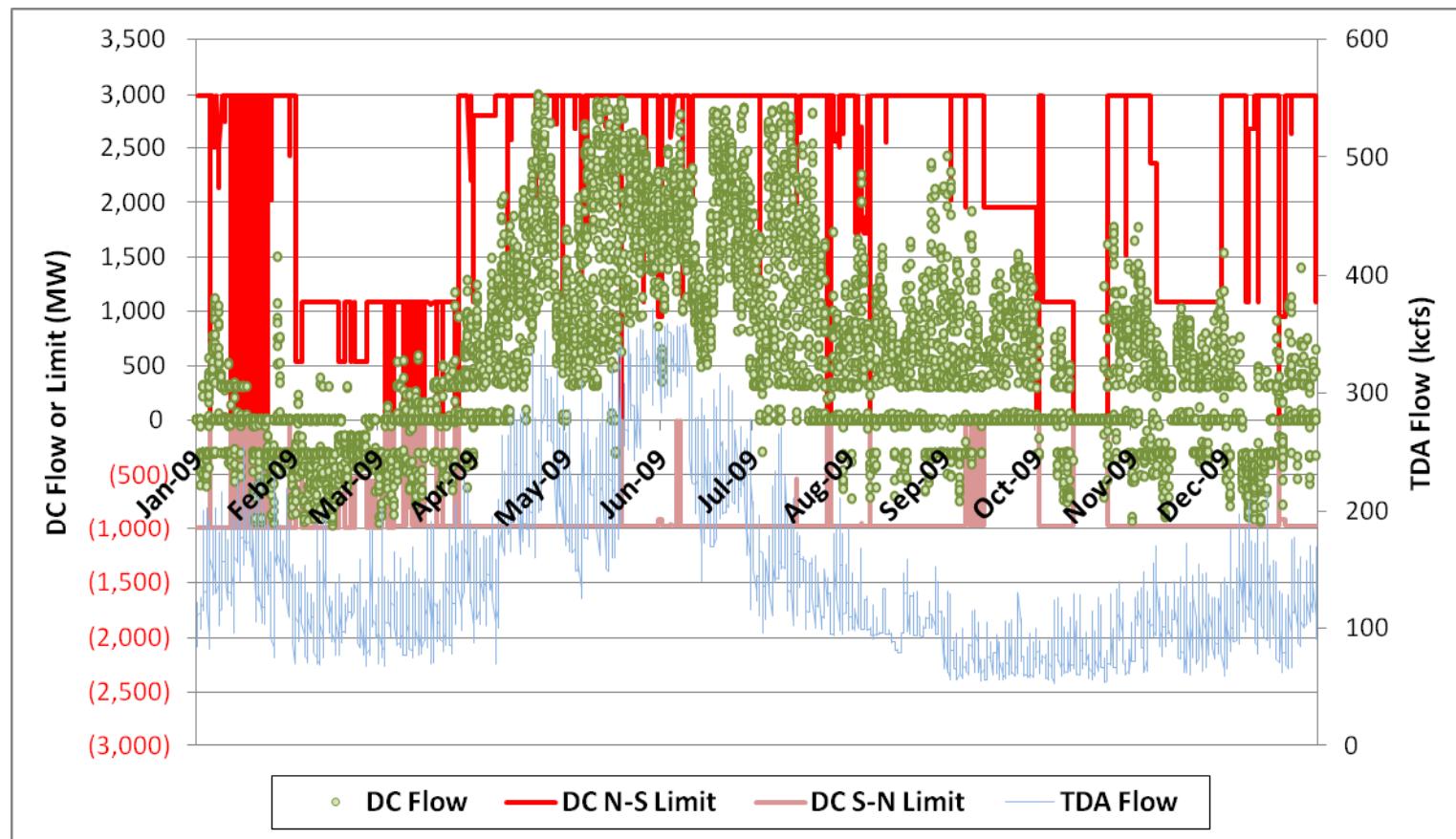


B O N N E V I L L E P O W E R A D M I N I S T R A T I O N

2010

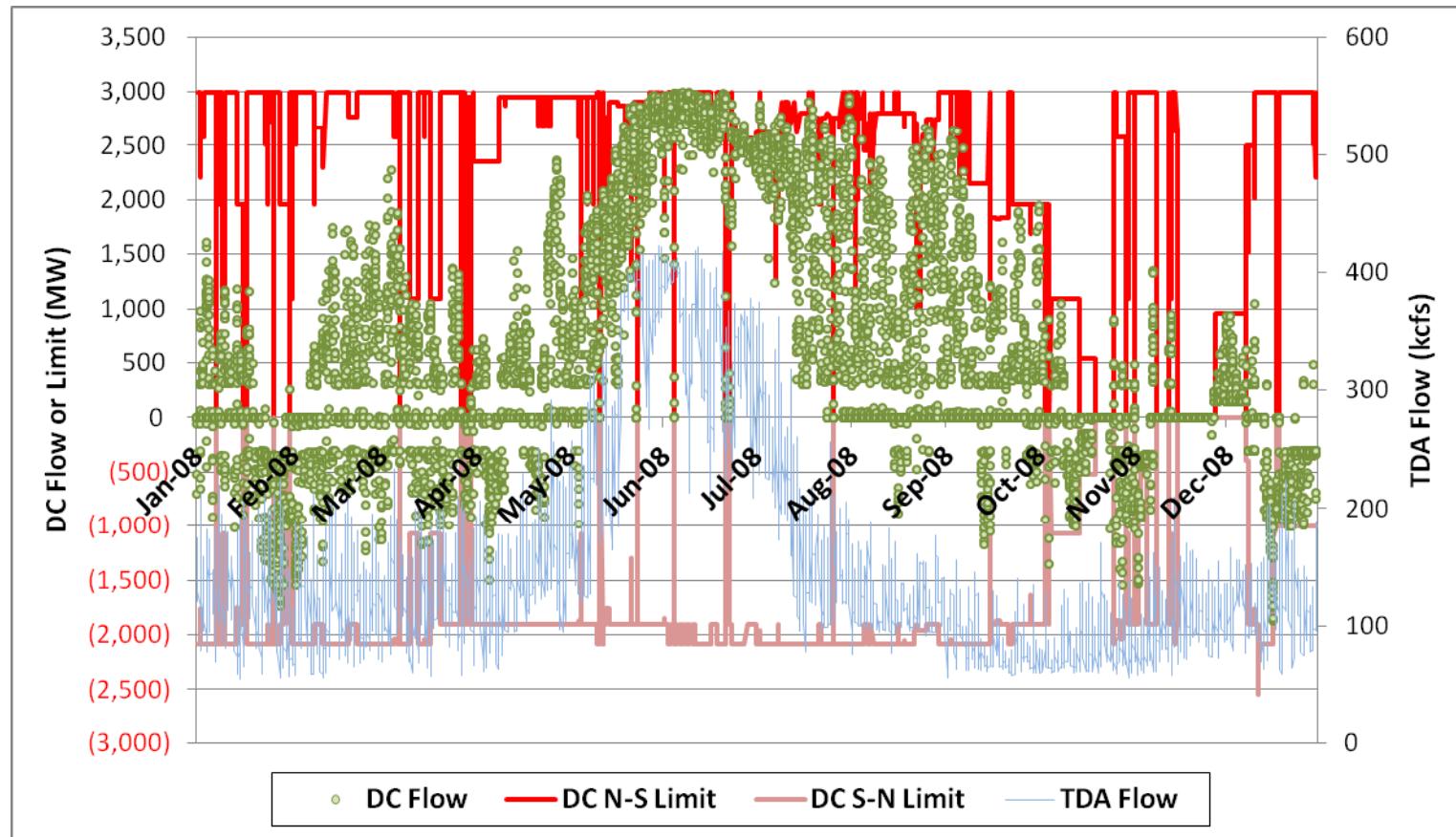


2009



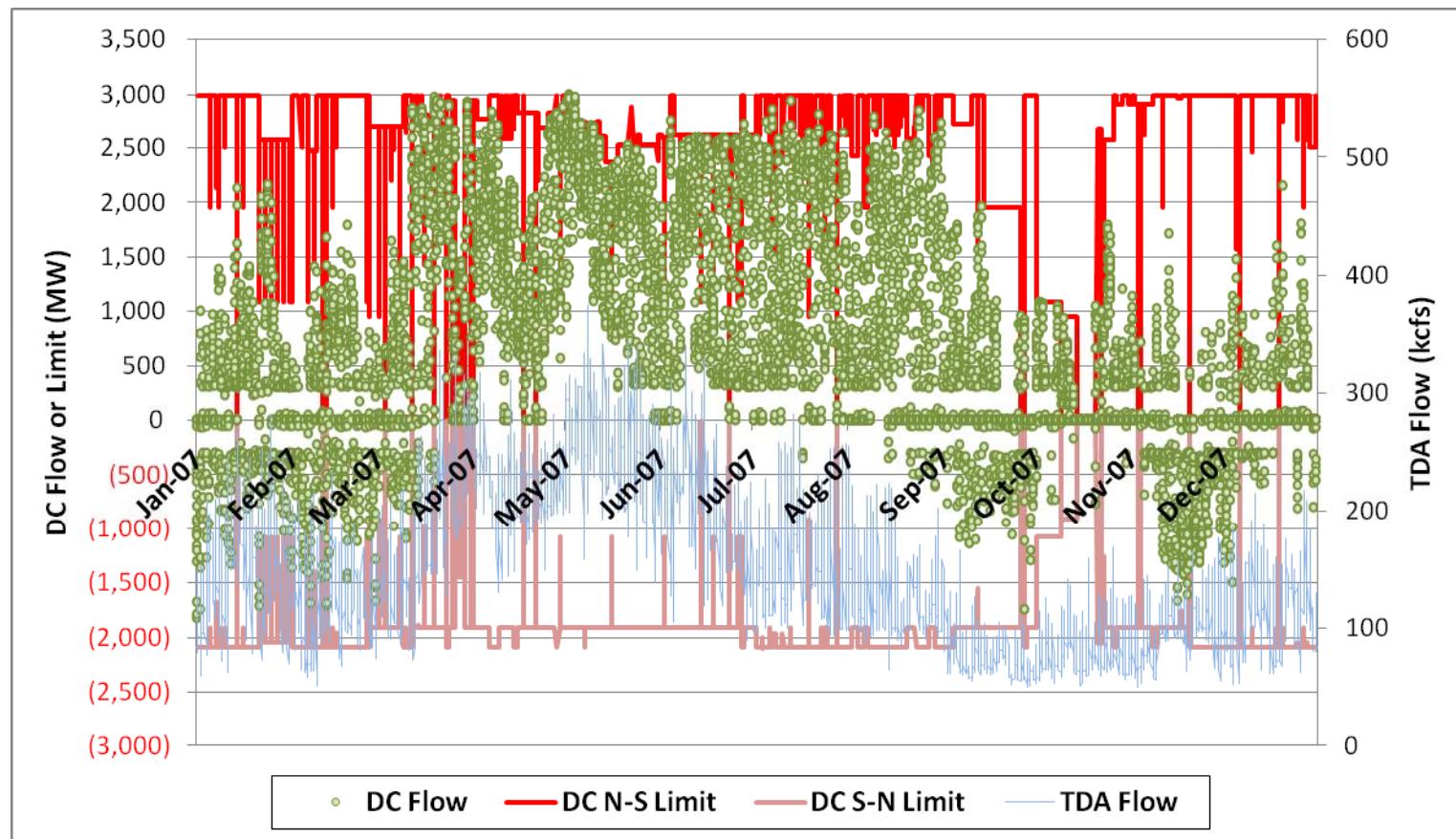
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2008



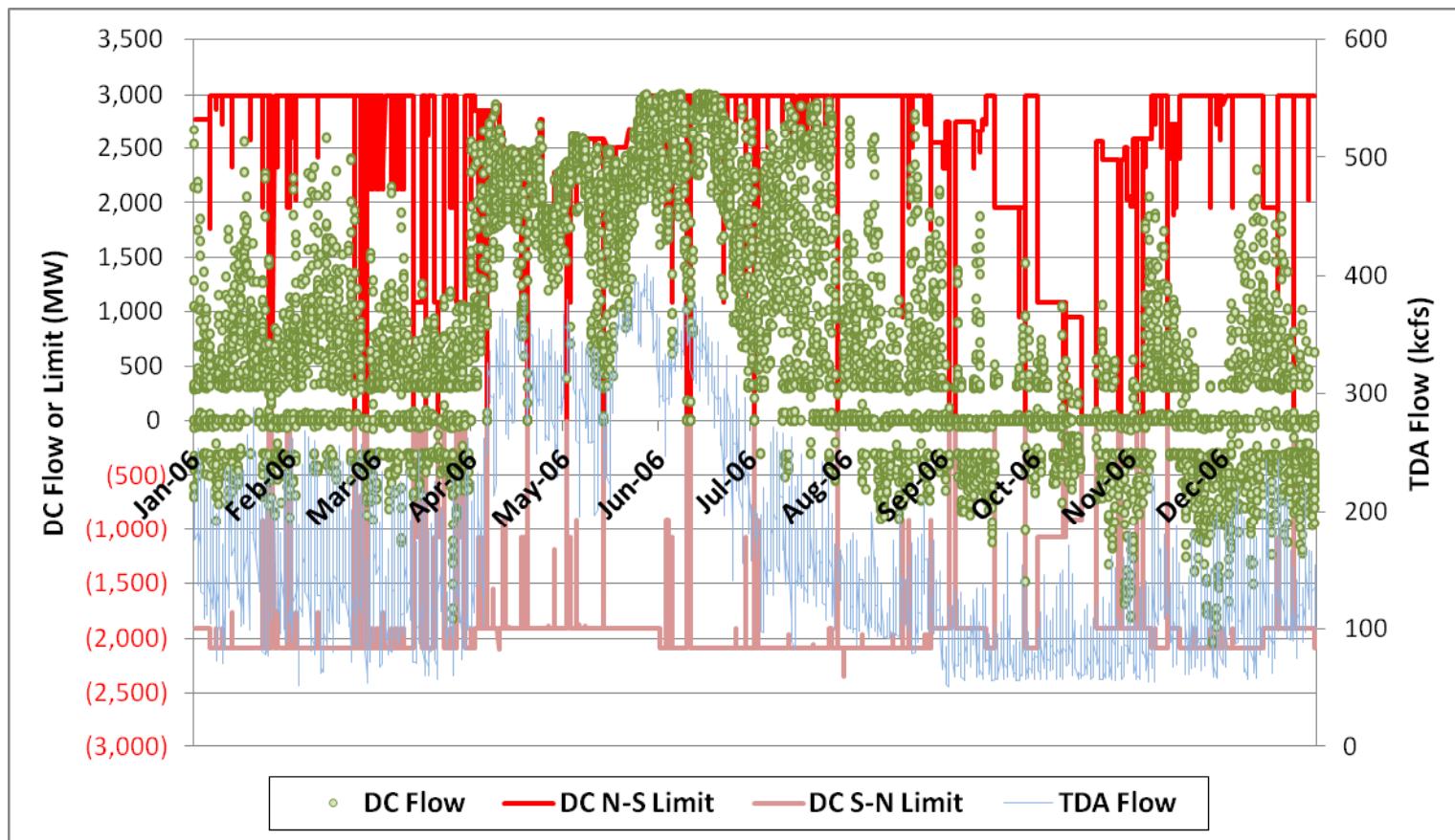
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2007

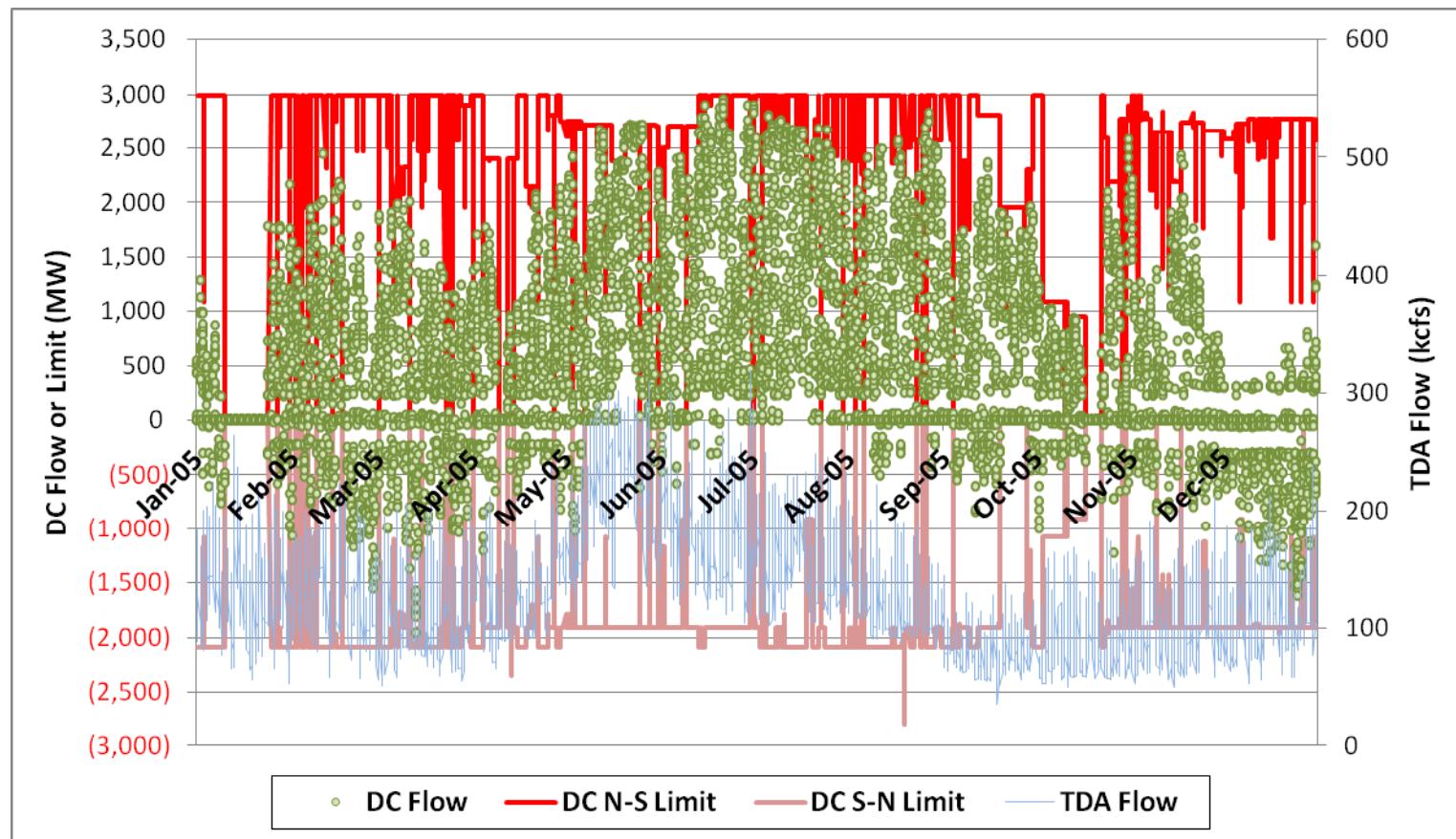


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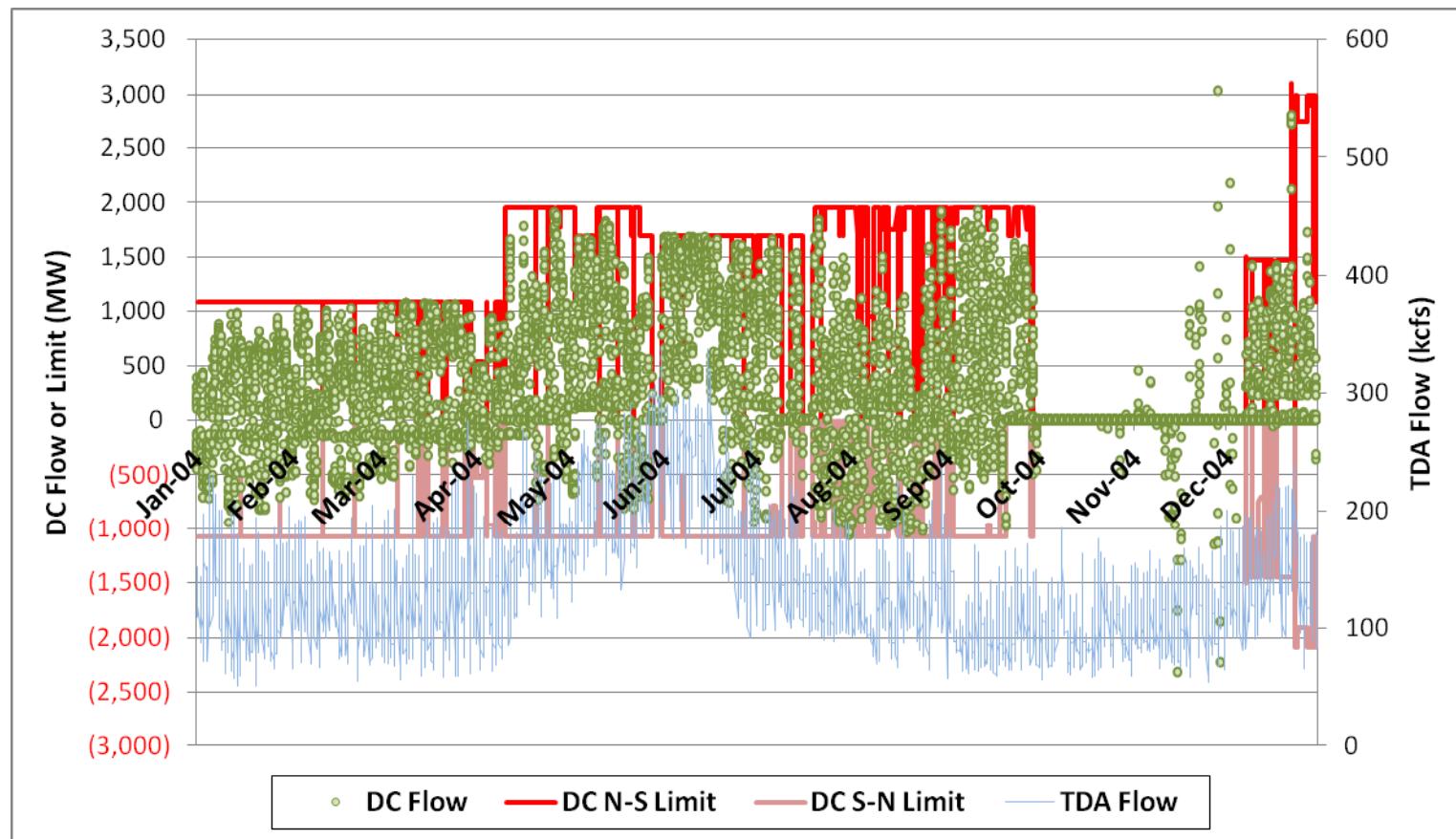
2006



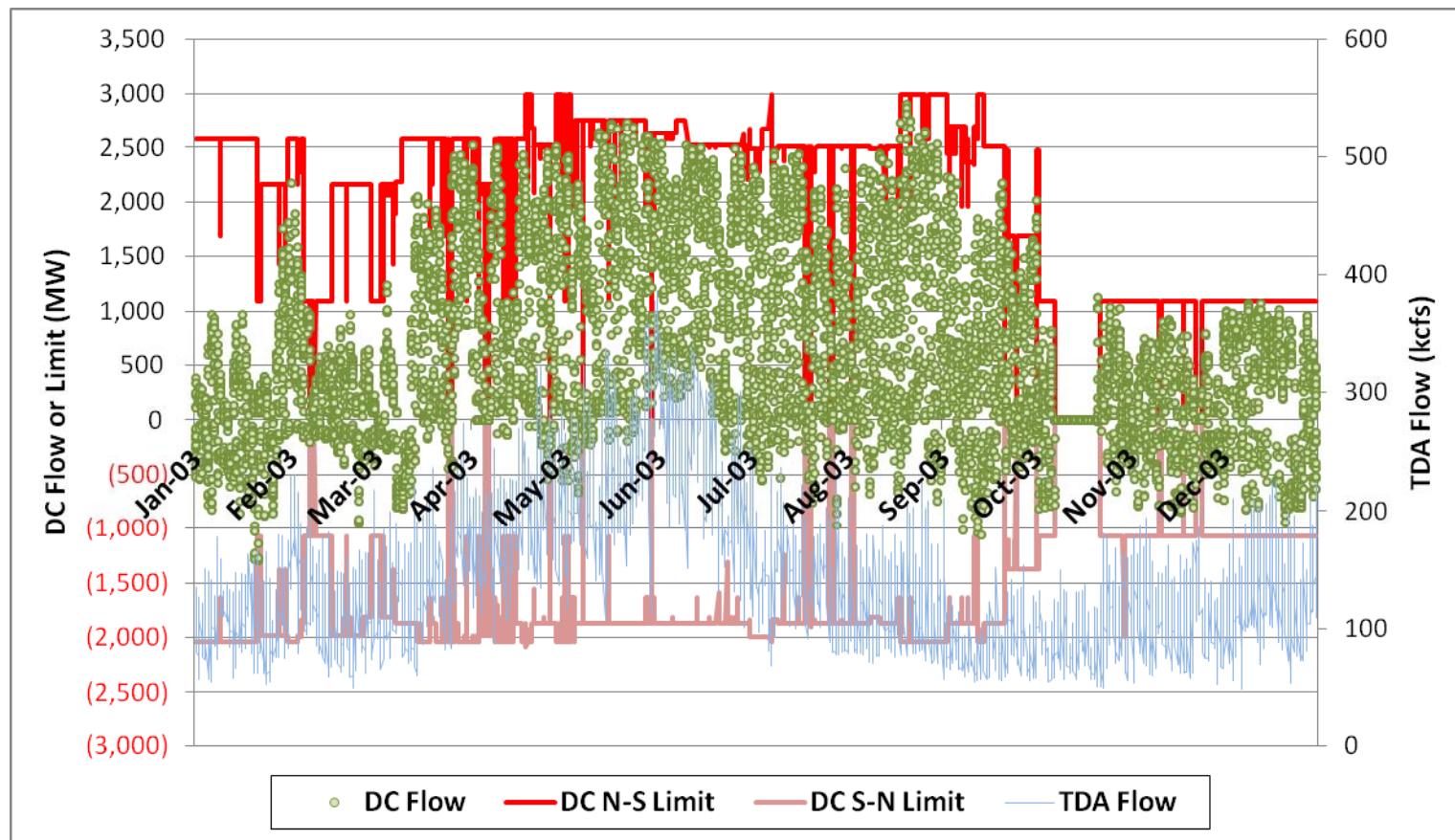
2005



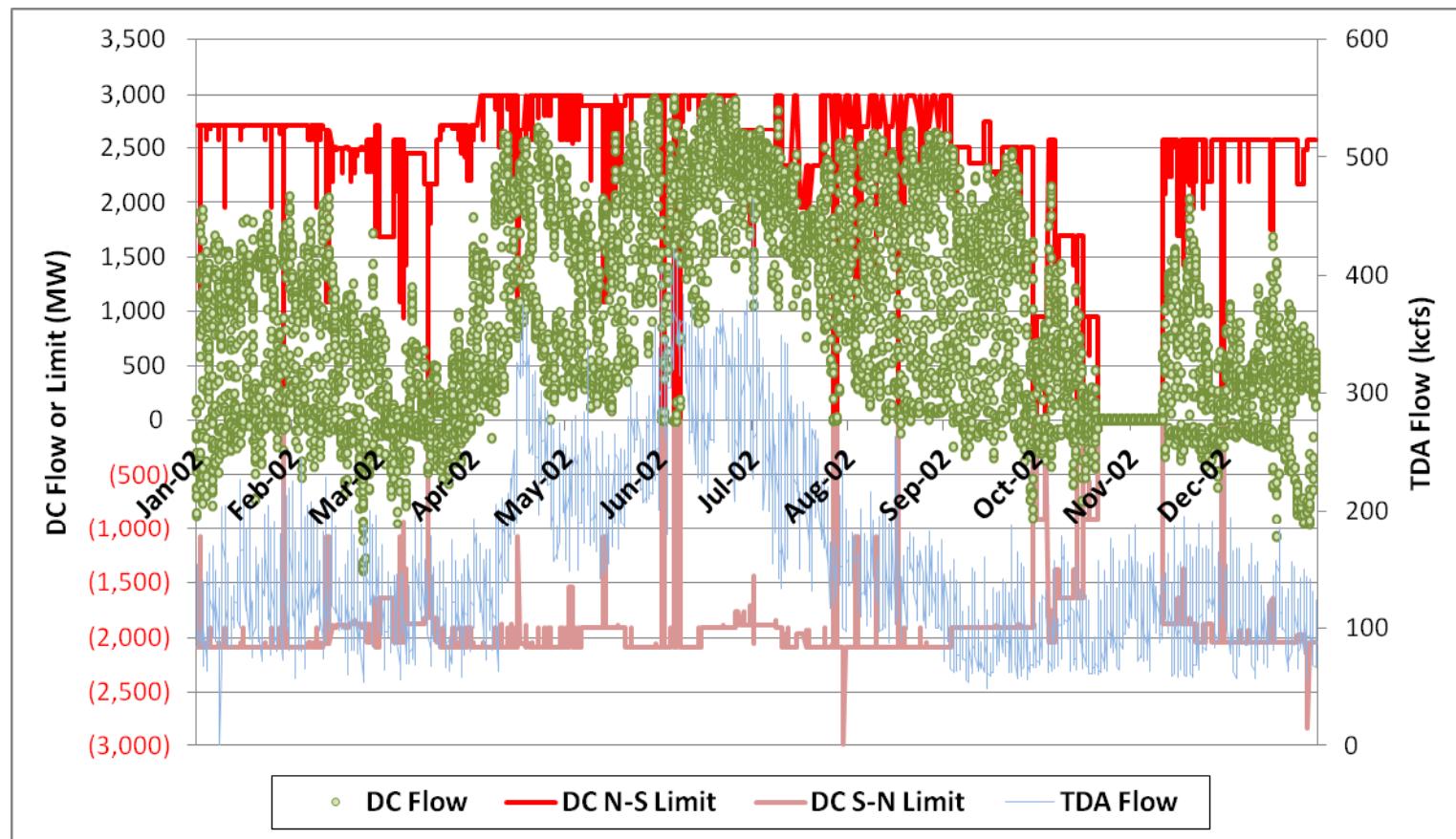
2004



2003



2002



B O N N E V I L L E P O W E R A D M I N I S T R A T I O N

2001

