

Evaluation of Conditional Firm Service (CFS)

AREFs: 98379860, 98379861, and 98379862

On the GMS.MCA.REV to BC.US.BORDER Path

SCOPE

Pursuant to BC Hydro OATT Section 19, The following Long-Term Firm Point-to-Point (LTFFTP) transmission service requests (TSRs) have been studied:

ARef	POR	POD	MW	Start Time	Stop Time
98379860	GMS.MCA.REV	BC.US.BORDER	500	Oct. 1, 2023	Oct. 1, 2028
98379861	GMS.MCA.REV	BC.US.BORDER	500	June 1, 2024	Oct. 1, 2029
98379862	GMS.MCA.REV	BC.US.BORDER	500	June 1, 2024	Oct. 1, 2030

PROCESS

BC Hydro adapted the methodology in *British Columbia Transmission Corporation (BCTC) Application to Amend the Open Access Transmission Tariff (OATT)* section 3.4.3, dated November 21, 2008¹, to determine the availability of CFS that can be offered to the Transmission Service Requests (TSRs) included in this study. The evaluation process has the following steps:

1. Obtain the monthly firm ATC between April 2023 and March 2024 from OASIS.
2. The monthly firm ATC values are then adjusted for any circumstances that does not typically impact LTFFTP Transmission Service, which are removed from the monthly firm ATC data. In addition, any outliers and anomalies will be evaluated and/or corrected as necessary. Specifically, for this CFS Evaluation, the monthly firm ATC values are increased by the amount of existing STFFTP Transmission Reservations, effectively removing them from the monthly firm ATC calculation. This results in 1750MW of adjusted firm ATC per month for April 2023 to March 2024.
3. Determine the ATC for CFS that can be offered before load growth adjustments assuming:
 - o Results from Step 2 is valid for all years of this study
 - o An executed LTFFTP Service Agreement related to TSR 98379860 for the amount of 370 MW for the duration of this TSR, without rollover rights.
4. Extrapolation to project ATC for CFS under domestic load growth to December 31, 2030, by reducing the ATC for CFS per year by load growth factors from BC Hydro's Dec 2020 High Load Integrated System Peak Demand After DSM and Rate Impacts (see Attachment A).

OUTCOMES

The projected monthly ATC for CFS (MW) is as follows

	2023	2024	2025	2026	2027	2028	2029	2030
Jan		1380	1334	1298	1244	1217	1540	1514
Feb		1380	1334	1298	1244	1217	1540	1514
Mar		1380	1334	1298	1244	1217	1540	1514
Apr*		1334	1298	1244	1217	1170	1520	1494
May		1334	1298	1244	1217	1170	1520	1494
Jun		1334	1298	1244	1217	1170	1520	1494
Jul		1334	1298	1244	1217	1170	1520	1494
Aug		1334	1298	1244	1217	1170	1520	1494
Sep		1334	1298	1244	1217	1170	1520	1494
Oct	1380	1334	1298	1244	1217	1540	1514	1488
Nov	1380	1334	1298	1244	1217	1540	1514	1488
Dec	1380	1334	1298	1244	1217	1540	1514	1488

*Fiscal year is April to March.

¹ https://docs.bccuc.com/Documents/Proceedings/2008/DOC_20466_B1-1_BCTC-AmendingOATT-Application.pdf

RESULTING OFFERS

Given the results from the System Impact Study and the Evaluation of CFS, BC Hydro (Transmission Provider) will tender the following Service Agreements. All CFS Service Agreements are subject to amendment from Biennial Reassessments.

AREF	Offers	Rollover Amounts (Max MW)
98379860	370 MW Partial LTFPTP	370 MW CFS
TSR Related to CFS portion of TSR 98379860*	130 MW CFS	130 MW CFS
98379861	500 MW CFS	500 MW CFS
98379862	500 MW CFS	488 MW CFS

* To administer CFS, the Transmission Customer will create a new TSR with the same attributes as AREF 98379860, with the exception of 130 MW as the requested capacity.

ATTACHMENT A

Projected growth rate for integrated system demand, used as reduction factors for modelling ATC for CFS, referenced from BC Hydro's Dec 2020 High Load Integrated System Peak Demand After DSM and Rate Impacts:

Fiscal Year (Month Range)	Annual Growth Rate (reduction factors)
F2025 (April 2024 to March 2025)	3.31%
F2026 (April 2025 to March 2026)	2.71%
F2027 (April 2026 to March 2027)	4.19%
F2028 (April 2027 to March 2028)	2.16%
F2029 (April 2028 to March 2029)	3.85%
F2030 (April 2029 to March 2030)	1.71%
F2031 (April 2030 to March 2031)	1.72%