

Evaluation of Conditional Firm Service (CFS)

AREFs: 99723538 and 99723543

On the POWELL.RIVER 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
99723538	POWELL.RIVER	BC.US.BORDER	45	Jan 1, 2024	Jan 1, 2029
99723543	POWELL.RIVER	BC.US.BORDER	33	Jan 1, 2024	Jan 1, 2029

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 September 2023 and August 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, and the impact of scheduled maintenance; effectively removing them from the monthly firm ATC calculation.
3. Determine the ATC for CFS that can be offered before load growth adjustments assuming results from Step 2 is valid for all years of this study, by:
 - o Accounting for confirmed LTFFTP service agreements from all LTFFTP customers that will be active, and assuming that the service agreements will rollover, as applicable
 - o Assuming executed LTFFTP Service Agreements related to TSRs 99723538 (45 MW) and 99723543 (33 MW), and assuming that the service agreements will rollover for 5 years as LTFFTP Transmission Service (the amount determined by the System Impact Study).
4. Extrapolation to project ATC for CFS under domestic load growth to December 31, 2034, by reducing the above outcome by load growth factors from BC Hydro's January 2023 Reference 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	2031	2032	2033	2034
Jan		1172	172	171	171	172	173	173	173	172	172	249
Feb		1172	172	171	171	172	173	173	173	172	172	249
Mar		1172	172	171	171	172	173	173	173	172	172	249
Apr*		1172	171	171	172	173	173	173	172	172	171	248
May		1172	171	171	172	173	173	173	172	172	171	248
Jun		172	171	171	172	173	173	173	172	172	171	248
Jul		172	171	171	172	173	173	173	172	172	171	248
Aug		172	171	171	172	173	173	173	172	172	171	248
Sep	1750	172	171	171	172	173	173	173	172	172	171	248
Oct	1250	172	171	171	172	173	173	173	172	172	171	248
Nov	1250	172	171	171	172	173	173	173	172	172	171	248
Dec	1250	172	171	171	172	173	173	173	172	172	171	248

*Fiscal year is April to March.

¹ https://docs.bcuc.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) Jan 1 2029 to Jan 1 2034	Rollover Amounts (Max MW) Jan 1 2034 and beyond
99723538	45 MW of LTFPTP	45 MW of LTFPTP	45 MW of CFS
99723543	33 MW of LTFPTP	33 MW of LTFPTP	33 MW of CFS

ATTACHMENT A

Projected growth rate for integrated system demand, used as reduction factors for modelling ATC for CFS, referenced from BC Hydro's January 2023 Reference Integrated System Peak Demand After DSM and Rate Impacts:

Fiscal Year (Month Range)	Annual Growth Rate (reduction factors)
F2026 (April 2025 to March 2026)	0.63%
F2027 (April 2026 to March 2027)	-0.25%
F2028 (April 2027 to March 2028)	-0.66%
F2029 (April 2028 to March 2029)	-0.49%
F2030 (April 2029 to March 2030)	0.23%
F2031 (April 2030 to March 2031)	-0.03%
F2032 (April 2031 to March 2032)	0.32%
F2033 (April 2032 to March 2033)	0.31%
F2034 (April 2033 to March 2034)	0.47%
F2035 (April 2034 to March 2035)	0.51%