

Applicability

1 Rider A1 applies to **system access service** provided to Dow Chemical Canada Inc. (Dow) at certain **points of delivery** associated with Dow's facility, as more particularly described in Alberta Energy and Utilities Board Decision U98125 (Grid Company of Alberta Inc. – Transmission Avoidance Rate – Dow Transmission Bypass).

Rate

2(1) For each metering time interval, the **metered demand** and **metered energy** for certain **points of delivery** and **points of supply** associated with Dow's facility, as more particularly described in Board Decision U98125, will be totalized for the purpose of settlement under Rate DTS of the **ISO tariff**, *Demand Transmission Service*, and Rate STS of the **ISO tariff**, *Supply Transmission Service*, as described in subsections 4 and 5 below..

2(2) Dow must make the following payments to the **ISO**:

- (a) Capital Charge: A lump-sum payment of \$5,071,038 collected upon implementation of this rider, and which Dow paid in full by December 31, 1998;
- (b) Losses and Other Expenses Charge: For each **settlement period**, commencing on January 1, 2022, an amount equal to the "Monthly Payment" in subsection 6 below for the applicable year.

Terms

3(1) All terms in the **ISO**'s July 24, 1998 Application for Transmission Bypass Avoidance Rate Dow Transmission Bypass will be applicable.

3(2) Rider A1 expires on December 31, 2021, the date at which the physical bypass option, had it been constructed, would have reached its end of life.

Metering and Totalizing

4(1) Had Dow built the duplicate facilities, the Dow Chemical (166S) transmission substation would be a **point of supply** when the Dow site power generation exceeds the load requirements, and a **point of delivery** when the generation does not meet the load requirements. The duplication avoidance tariff will simulate these conditions by deeming the **points of delivery** at the Dow Hydro Carbons (258S), Dow Chemical (166S) and Ross Creek (906S) transmission substations, and the **points of supply** at the Dow Gen (218S) and Dow Hydro Carbons (258S) transmission substations, to be a single **point of delivery** and **point of supply** for the purpose of totalizing **metered demand** and **metered energy** in applying Rate DTS and Rate STS.

4(2) During operation of the duplication avoidance tariff, the **ISO** will totalize the metered data for Dow's load and generation served from the Dow Hydro Carbons (258S), Dow Chemical (166S), Ross Creek (906S) and Dow Co-Gen (218S) transmission substations. This will ensure that payments by Dow to the **ISO** under Rate DTS and Rate STS are equivalent to the costs Dow would have incurred for the duplicate facilities.

4(3) Charges under Rate DTS and Rate STS will be calculated using the totalized **metered demand** and the totalized **metered energy** for Dow at the Dow Hydro Carbons (258S), Dow Chemical (166S), Ross Creek (906S) and Dow Co-Gen (218S) transmission substations. The meters to be totalized at Dow

Hydro Carbons (258S) are 258S, T1 and T2. The meters to be totalized at Dow Chemical (166S) are 166S, T1, T2, T3A and T3B. The meters to be totalized at Ross Creek (906S) are 906S, T1 and T3. The meters to be totalized at Dow Co-Gen (218S) are 218S, TR1 and TR2. These **meter** points may change from time to time.

Example of Totalizing

5(1) The following is an example of the totalizing calculation for **metered demand** for two different metering time intervals.

	Time Interval 1	Time Interval 2
Point of delivery (A) (Dow Hydro Carbons (258S))	+25 MW	+30 MW
Point of supply and point of delivery (B) (Dow Chemical (166S))	-45 MW	0 MW
Point of delivery (C) (Ross Creek (906S))	+35 MW	+30 MW
Point of supply (D) (Dow Cogen (218S))	-100 MW	0 MW
Totalized metered demand (E)	-85 MW	+60 MW

5(2) In time interval 1, under the duplication avoidance tariff, Dow’s **demand** requirement is 25 MW at Dow Hydro Carbons (258S) and 35 MW at Ross Creek (906S) transmission substations. At the same time, Dow cogeneration facilities are producing 145 MW of power, 45 MW at Dow Chemical (166S) and 100 MW at Dow Cogen (218S). The net delivery to the **interconnected electric system** is 85 MW at the Dow Chemical (166S) and Dow Cogen (218S) transmission substations. Had Dow built the duplicate facilities, the **metered energy** delivered by the **interconnected electric system** to Dow requirement at the Dow Chemical (166S) transmission substation would be zero, and the **metered energy** received by the **interconnected electric system** from the generator output at the Dow Chemical (166S) and Dow Cogen (218S) transmission substations would be 85 MW (145 MW of generation minus 60 MW of load). This energy balance is simulated by the proposed totalizing procedure. Combining the **point of delivery** (A) and **point of supply** (B) produces an adjusted **metered demand** of -85 MW, where the negative sign signifies a net energy receipt by the **interconnected electric system**.

5(3) In time interval 2, the cogeneration facility is not operating and Dow’s load remains at 60 MW (30 MW at the Dow Hydro Carbons (258S) transmission substation, and 30 MW at the Ross Creek (906S) transmission substation). The result is a net load of +60 MW for that time interval, where the positive sign signifies a net energy delivery from the **interconnected electric system**.

Schedule 1 — Losses and Other Expenses Charge

6	12-Month Period	Forecast Benefit to ISO (Annual)	Forecast Benefit to ISO (Monthly)
	Jan. 1, 1998 – Dec. 31, 1998	\$544,093	\$45,341
	Jan. 1, 1999 – Dec. 31, 1999	\$865,378	\$72,115
	Jan. 1, 2000 – Dec. 31, 2000	\$836,603	\$69,717
	Jan. 1, 2001 – Dec. 31, 2001	\$807,828	\$67,319
	Jan. 1, 2002 – Dec. 31, 2002	\$779,053	\$64,921
	Jan. 1, 2003 – Dec. 31, 2003	\$750,278	\$62,523
	Jan. 1, 2004 – Dec. 31, 2004	\$721,503	\$60,125
	Jan. 1, 2005 – Dec. 31, 2005	\$692,728	\$57,727
	Jan. 1, 2006 – Dec. 31, 2006	\$663,953	\$55,329
	Jan. 1, 2007 – Dec. 31, 2007	\$635,178	\$52,932
	Jan. 1, 2008 – Dec. 31, 2008	\$606,403	\$50,534
	Jan. 1, 2009 – Dec. 31, 2009	\$577,628	\$48,136
	Jan. 1, 2010 – Dec. 31, 2010	\$548,853	\$45,738
	Jan. 1, 2011 – Dec. 31, 2011	\$520,078	\$43,340
	Jan. 1, 2012 – Dec. 31, 2012	\$491,303	\$40,942
	Jan. 1, 2013 – Dec. 31, 2013	\$462,528	\$38,544
	Jan. 1, 2014 – Dec. 31, 2014	\$433,754	\$36,146
	Jan. 1, 2015 – Dec. 31, 2015	\$404,979	\$33,748
	Jan. 1, 2016 – Dec. 31, 2016	\$376,204	\$31,350
	Jan. 1, 2017– Dec. 31, 2017	\$347,429	\$28,952
	Jan. 1, 2018– Dec. 31, 2018	\$318,654	\$26,554
	Jan. 1, 2019– Dec. 31, 2019	\$289,879	\$24,157
	Jan. 1, 2020– Dec. 31, 2020	\$261,104	\$21,759
	Jan. 1, 2021– Dec. 31, 2021	\$232,329	\$19,361

Revision History

Effective	Description
2021-01-01	Revised and reformatted all subsections, as approved in Commission Decision 25175-D02-2020, issued on November 30, 2020.
2011-07-01	Revised and reformatted all subsections, as approved in Commission Decision 2011-275 issued on June 24, 2011.