

**EXHIBIT B, REVISION NO. 12**  
**DATA AND INFORMATION EXCHANGE**

*This Exhibit B, Revision No. 12 (Revision No. 12) adds Ref #19 to updates the data and information exchange throughout the table. Revision No. 12 is effective as of March 5, 2018 and it replaces Exhibit B, Revision No. 1 in its entirety.*

REF #	DATA ITEM	SENDER	RECEIVER	MARKET	MARKET INTERVAL	METHOD	WHEN & HOW OFTEN	NOTES
1	Real-time Managed Limits and Actual Flows on Bonneville Managed Facilities	Bonneville	CAISO	N/A	N/A	ICCP	Real-Time	Bonneville calculates and sends these to Peak Reliability in real-time via ICCP; CAISO may retrieve these from Peak Reliability or directly from Bonneville.
2	Upper/Lower Rate of Change Limits on Bonneville Managed Facilities	Bonneville	CAISO	RTD	Advisory/Binding	EIDE	On change, at least once an hour.	If Bonneville does not send a value or CAISO does not receive it, the last value that is sent by Bonneville and received by the CAISO should be persisted.
3	Rate of Change Market Flows on Bonneville Managed Facilities	CAISO	Bonneville	RTD/FMM	Advisory/Binding	EIDE	Every 5 and 15 minutes respectively	EIM Incremental market flows due to scheduling and dispatching of specific EIM Participating Resources compared to their corresponding submitted Base Schedules or hourly resource plan.
4	Total Market Dispatch for EIM Participating Resources	CAISO	Bonneville	RTD/FMM	Advisory/Binding	EIDE	Every 5 and 15 minutes respectively	For resources identified in section 5 of Exhibit C or other resources identified by the Coordinating Committee for reliability needs.
5	Load Forecast for each EIM Area BAA	CAISO	Bonneville	RTD/FMM	Advisory/Binding	EIDE	Every 5 and 15 minutes respectively	

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6	Adjusted Net Scheduled Interchange for each EIM Area BAA	CAISO	Bonneville	RTD/FMM	Advisory/Binding	EIDE	Every 5 and 15 minutes respectively	
7	Resource Status for EIM Participating Resources	CAISO	Bonneville	RTD	Advisory/Binding	EIDE	Every 5 minutes	For resources identified in section 5 of Exhibit C or other resources identified by the Coordinating Committee for reliability needs.
8	Generation Shift Factor for EIM Participating Resources for each Bonneville Managed Facility	CAISO	Bonneville	RTD	Binding	EIDE	Every 5 minutes	For resources identified in section 5 of Exhibit C or other resources identified by the Coordinating Committee for reliability needs.
9	Upper/Lower Rate of Change Limits that CAISO is enforcing in RTD	CAISO	Bonneville	RTD	Advisory/Binding	EIDE	Every 5 minutes	Allows Bonneville to verify that CAISO has received the Upper/Lower Rate of Change Limits that are actively being enforced.
10	EIM Transfers between EIM Area BAAs	CAISO	Bonneville	RTD/FMM	Advisory/Binding	EIDE	Every 5 and 15 minutes respectively	
11	EIM Incremental Flow for each Bonneville Managed Facility and facilities listed in section 3 of Exhibit C	CAISO	Bonneville	RTD/FMM	Advisory/Binding	EIDE or other standard communication protocol	Every 5 and 15 minutes respectively	Per section 5.1 of this Agreement.

REF #	DATA ITEM	SENDER	RECEIVER	MARKET	MARKET INTERVAL	METHOD	WHEN & HOW OFTEN	NOTES
12	EIM Area Incremental Flow for each Bonneville Managed Facility and facilities listed in section 3 of Exhibit C	CAISO	Bonneville	RTD/FMM	Advisory/Binding	EIDE or other standard communication protocol	Every 5 and 15 minutes respectively	Per section 5.3 of this Agreement.
13	EIM Area Total Flow for each Bonneville Managed Facility and facilities listed in section 3 of Exhibit C	CAISO	Bonneville	RTD/FMM	Advisory/Binding	EIDE or other standard communication protocol	Every 5 and 15 minutes respectively	Per section 5.3 of this Agreement.
14	EIM Area Incremental Flow Limit	Bonneville	CAISO	RTD/FMM	Advisory/Binding	EIDE or other standard communication protocol	Per the conditions listed in section 5.2 of the Agreement.	For each Bonneville Managed Facility, subject to section 5.2 of this Agreement.
15	EIM Area Incremental Flow Limit active in RTD	CAISO	Bonneville	RTD/FMM	Advisory/Binding	EIDE or other standard communication protocol	Every 5 and 15 minutes respectively	For each Bonneville Managed Facility, subject to section 5.2 of this Agreement. This allows Bonneville to verify that CAISO has received the EIM Area Incremental Flow Limit and is actively being enforced.
16	EIM Area Total Flow Limit	Bonneville	CAISO	RTD/FMM	Advisory/Binding	EIDE or other standard communication protocol	Per the conditions listed in sections 5.3 and 5.4 of the Agreement.	For each Bonneville Managed Facility, subject to section 5.3 of this Agreement.

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17	EIM Area Total Flow Limit active in RTD	CAISO	Bonneville	RTD/FMM	Advisory/Binding	EIDE or other standard communication protocol	Per the conditions listed in sections 5.3 and 5.4 of the Agreement.	For each Bonneville Managed Facility. This allows Bonneville to verify that CAISO has received the EIM Area Total Flow Limit and is actively being enforced.
18	General Market Status	CAISO	Bonneville	RTD/FMM	N/A	EIDE or other standard communication protocol	Every 5 and 15 minutes respectively	An indication that the respective market is operational, per section 4.6 of this Agreement.
19	Network Application Calculated Flow	CAISO	Bonneville	FMM	Advisory/Binding	EIDE or other standard communication protocol	Every 15 minutes	For each Bonneville Managed and Monitored Facility listed in Exhibit C, provide the calculated energy flow from the AC power flow solution performed as part of the FMM market process (a.k.a. NA Flow)

The terms Real-Time Dispatch (RTD) and Fifteen Minute Market (FMM) are defined in the CAISO tariff. The Coordinating Committee may agree to add or remove data items listed in this Exhibit B. Per section 6.1 of the Agreement, such additions or removals shall not be considered an amendment to the Agreement.