

# Boulder Canyon Project

## Target Schedule Requirements Explanation and Examples

Beginning October 1, 2018, Western Area Power Administration (WAPA) will implement sections 7.5 and 7.6 of the Metering and Scheduling Instructions (MSI) included as Attachment No. 6 to the Electric Service Contract.

Enforcement of these sections of the MSI is intended to encourage scheduling behavior that supports water requirements of the lower Colorado River system. The sub-monthly requirements in particular are closely coordinated with Bureau of Reclamation (Reclamation) and if followed as intended, should decrease the need for repeated changes to the Target Schedule and other potentially negative impacts to water operations.

WAPA understands that curtailments or other factors may impact final schedule totals. Penalties or energy forfeitures under sections 7.5 and 7.6 due to circumstances beyond the Contractor or Scheduling Entities' control may be waived based on the circumstances.

Section 7.5 of Attachment No. 6:

Monthly Energy Excursions: The Scheduling Entity or Contractor, when in need of a monthly energy excursion of more than +/- two (2) percent, but within +/- five (5) percent of Contractor's Available Energy from the Target Schedule, must request approval from the Western Scheduling Point of Contact (POC). The Western Scheduling POC will communicate to the Scheduling Entity approval or disapproval of the excursion requested based on power and hydro system conditions at the time of request and record the request. Contractor will forfeit energy for under-runs on unapproved excursions beyond the two (2) percent monthly window and five (5) percent Western approved window. Overruns in excess of two (2) percent that are not pre-approved or any overrun in excess of five (5) percent shall be assessed a penalty in accordance with Attachment No. 5, Schedule of Rates for Power Service, of the Contract.

Section 7.6 of Attachment No. 6:

Sub-Monthly Energy Requirement: The Scheduling Entity or Contractor is required to schedule within +/- two (2) percent of the Contractor's Available Energy for the first sub-monthly period identified on the Target Schedule each month. For each subsequent sub-monthly period, the Scheduling Entity or Contractor is required to schedule within +/- five (5) percent of the Contractor's Available Energy identified on the Target Schedule each month. Deviations outside of the applicable percentage requirements will be calculated for each period and are subject to forfeiture of energy and/or



penalties in accordance with Attachment No. 5, Schedule of Rates for Electric Service, of the Contract.

Attachment No. 5:

**Billing for Unauthorized Overruns:** For each Billing Period in which there is a Contract violation involving an unauthorized overrun of the contractual power obligations, such overrun shall be billed at 10 times the forecast energy rate and forecast capacity rate. The contribution charge shall also be applied to each kWh of overrun.

For each Schedule Definition, WAPA will calculate the delta between the sub-monthly target period value and the amount scheduled for the first sub-monthly target period. Two percent positive and negative deltas are allowable for the first sub-monthly target period. For subsequent sub-monthly target periods, the positive and negative allowable delta is five percent.

WAPA will calculate deltas for each sub-monthly target period separately, determine charges for overruns, and redistribute forfeited energy for underruns for any applicable deltas.

If the delta for the first sub-monthly target period exceeds two percent (+2%), WAPA will bill the Contractor for the unauthorized overrun. The overrun charge will be equal to the MWh value of any delta in excess of +2% and the rate applied will be ten times the forecast energy rate.

Overrun Example	
Schedule Definition Period 1 Target (MWh)	100
Schedule Definition Period 1 Energy Scheduled (MWh)	110
Delta (MWh)	10
Delta Percentage	10%
Allowable Delta (2%)(MWh)	2
Delta Subject to overrun charge (MWh)	8
Forecast Energy Rate (\$/MWh)	\$9.61
Overrun charge for the first period overrun	\$768.80

Schedule Definitions with deltas lower than two percent (-2%) in the first sub-monthly target period will forfeit energy outside the allowable delta. Any forfeited energy will be redistributed



across Schedule Definitions by applicable contract percentages in the next issued Target Schedule.

Underrun Example	
Schedule Definition Period 1 Target (MWh)	100
Schedule Definition Period 1 Energy Scheduled (MWh)	90
Delta (MWh)	-10
Delta Percentage	-10%
Allowable Delta (2%) (MWh)	2
Delta Subject to forfeiture (MWh)	8

WAPA will also calculate separate deltas for the full month target compared to the monthly total of energy scheduled. Monthly deltas are allowable up to two percent but can be approved up to five percent on a case-by-case basis. WAPA will coordinate with Reclamation on requests of five percent to determine if current water requirements can accommodate such a request. Requests of five percent should be requested by Schedule Definition will be approved as an overrun or underrun.

Monthly deltas outside allowable percentages (two percent or five percent if approved) are subject to overrun charges or underrun forfeited energy redistribution which would be calculated using monthly totals as in the above example for a first sub-monthly target period.

After each month, Schedule Definition deltas by sub-monthly target period and month will be calculated and overrun charges or underrun forfeited energy redistribution will occur. It is possible to be charged or forfeit energy for a single sub-monthly target period excursion or for a month, in total or a combination of the two. The results of delta accounting will be included in the Contractor's bill associated with the Schedule Definition and/or an energy adjustment to the Schedule Definition in a subsequent month whichever may be applicable.

In the Hoover Portal, Contractors and Scheduling Entities are able to track their scheduling progress using Monthly Reports. From the Accounting menu, select Monthly Reports. With Monthly Reports highlighted in blue, select the current month and year, and click Get Report.



Western Area Power Administration Available Applications.. ▾

Capacity Energy Reports Accounting System Setup

Checkouts Monthly Reports Loss Apportionment User Overrides

## Monthly Reports

2018 ▾

June ▾

Get Report

Monthly Report

Net Deemed Delivered

