DADRP Billing Calculations

Definitions:

- ➢ **X = fixed load bid (not incl. Interruptible load/standby gen. Bids)**

- ➢ $\mathbf{Y_{bid}}$ **= interruptible load bid**

- ➢ $\mathbf{Y_{acc}}$ **= interruptible load chosen by SCUC**

- ➢ **Z = real-time load interruption**

- ➢ $\mathbf{Load_{rt}}$ **= real-time load as metered**

- ➢ $\mathbf{LBMP_{dam}}$ **= day-ahead LBMP**

- ➢ $\mathbf{LBMP_{rt}}$ **= real-time LBMP**

Interruptible Load

DAM Load purchase: $\text{LBMP}_{dam} * (X + Y_{bid})$

Incentive: $-\text{LBMP}_{dam} * Z$

Reduction payment: $max(\text{bid}, \text{LBMP}_{dam}) * Y_{acc}$

Real-time load balancing: $[\text{Load}_{rt} - (X + Y_{bid} - Z)] * \text{LBMP}_{rt}$

Penalty: $1.10 * (Y_{acc} - Z) * max(\text{LBMP}_{dam}, \text{LBMP}_{rt})$

Standby Generation

DAM Load purchase: $LBMP_{dam} * (X + Y_{bid})$

Incentive: 0

Reduction payment: $max(bid, LBMP_{dam}) * Y_{acc}$

Real-time load balancing: $(Load_{rt} - X) * LBMP_{rt}$

Penalty: 0