

## Attachment 1

### Generation Emergency Action Plan (Updated May 27, 2009)

The following is a list of actions that the power system will pursue when attempting to avoid or delay a situation that would result in the interruption or adjustment of protection measures contained in the respective Biological Opinions (BiOps). Should the implementation of available resources on the pre-emptive actions list below fail to resolve a situation, or if the situation arises suddenly without warning, BPA shall initiate the process to declare a power system emergency. A request for the declaration of a power system emergency will initiate implementation of the actions from the Emergency Actions List on the next page.

Notification to the region will be made as soon as practical, and will follow the protocols for notification, reporting, and documentation as specified in the *Technical Management Team Emergency Protocols, Appendix 1 – Emergency Protocols of the TMT Water Management Plan*.

#### **Pre-emptive Actions** (not in priority order)

- Timely energy purchases at prices up to the FERC WECC price cap (currently \$400/mwh).
- Request that Corps and Reclamation return all possible units to service by canceling or postponing scheduled outages. (Makes all units available).
- Stop/delay Transmission O&M actions via AGC dispatcher.
- Put into service (on line) all possible generators (e.g., Grand Coulee pump-generators)
- Reshape flows within objectives at specific projects to meet immediate generation needs (deal with the immediate problem – this may throw the river out of whack – if applicable spill upstream projects to position water downstream).
- Cut prescheduled PNCA storage return to others
- Request Exceedance of draft limits
- Stop/Start pumping at Grand Coulee.
- Request tailwater rate of change exceedance at Bonneville Dam.
- Contact RCC and Tribes to alter Treaty fishing elevations is applicable.
- Reschedule power system maintenance to minimize impact fish protection measures.
- Monitor reserves and request a declaration of a NERC ALERT 1 (via AGC dispatcher) when there is concern about sustaining required operating reserves. Dispatcher will call NWPP Reliability Coordinator.
- Issue “Merchant Alert” through WECC.

**Emergency Actions List**

The following is a prioritized list of emergency actions. This list may be updated as necessary through coordination with the TMT. The order of the list will be followed as best as possible. The order and extent of the actual implementation of the actions in this list will be dictated by each specific emergency.

Implementation of actions from the Emergency Actions List will not occur unless a declaration of a NERC Alert 2 or 3 Power System Emergency is requested by BPA.

**Emergency Actions List (Updated via TMT as of May 27, 2009)**

**April – August period** (MW amounts are approximate)

- Increase generation at JDA to operate outside 1% up to full load
- Increase generation at TDA to operate outside 1% up to full load
- Reduce spill at LWG to RSW only (~9 kcfs) 70MW
- Reduce spill at LGS to RSW only
- Reduce spill at IHR to RSW with limited training spill (19 kcfs) 133MW
- Reduce spill at LMN to RSW only (~9 kcfs) 63 MW
- Reduce spill at LWG to 0 63MW
- Reduce spill at LGS to 0 77MW
- Reduce spill at LMN to 0 119 MW
- Reduce spill at IHR to RSW only (~9 kcfs) 133MW
- Reduce spill at IHR to 0 180MW
- Increase generation at MCN to operate outside 1% up to 16.5 kcfs per unit
- Increase generation at BON PH I to operate outside 1% up to full load
- Reduce spill at MCN to 20% of flow 180MW
- Reduce spill at BON to 50 kcfs while maintain B2CC spill 105/210MW
- Reduce MCN to TSW's only
- Reduce spill at BON to 0 200MW
- Reduce spill at JDA to 0 338MW
- Reduce spill at TDA to 30% 106MW
- Reduce spill at MCN to 0 (to save water for future hours)
- Reduce spill at TDA to 0 324MW
- Increase generation at BON PH II to operate outside 1% up to full load

**September– March period**

- Increase generation at JDA to operate outside 1% up to full load (Sep-Oct)
- Increase generation at TDA to operate outside 1% up to full load (Sep-Oct)
- Increase generation at MCN to operate outside 1% up to 16.5 kcfs per unit (Sep-Oct)
- Increase generation at BON to operate outside 1% up to full load (Sep-Oct)
- Shut off adult fish attraction BON
- Shut off TDA sluiceway
- Violation of BiOp ramp rates at HGH and LIB
- Increase project drafts that might impact spring refill.(HGH/LIB/DWR/ALF)