**Contingency Actions List**

(For TMT review 2/16/2022)

When routine reliability tools and preemptive actions are insufficient or unavailable to resolve the power system condition, the following is a list of contingency actions that may be taken to provide reserves, voltage, energy or inertia. The order and extent of the actual implementation of the actions in this list will be dictated by each specific condition but if possible, the order at each individual dam will be followed. The actions on the list may be updated as necessary through coordination with TMT.

Contingency Actions are prioritized by tier and within each tier.

| March 1 – April 2 | April 3 – April 9 | April 10 – June 15 | June 16 – June 20 | June 21 – August 14 | August 15 to August 31 | September – November 15 | November 16 - End of Feb |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tier 1** | **Tier 1** | **Tier 1** | **Tier 1** | **Tier 1** | **Tier 1** | **Tier 1** | **Tier 1** |
| LWG Move Spillway Weir Hours within morning hours or next day morning | JDA shutoff adult attraction spill | **BON**: Generate above 1% up to full load PH1 | **BON**: Generate above 1% up to full load PH1 | **BON**: Generate above 1% up to full load PH1 | **BON**: Generate above 1% up to full load PH1 | LWG Move Spillway Weir Hours within morning hours or next day morning | HGH, LIB, ALF, GCL: increase project drafts |
| LGS Move Spillway Weir Hours within morning hours or next day morning | BON shutoff adult attraction spill | **TDA**: Generate above 1% up to full load | **TDA**: Generate above 1% up to full load | **TDA**: Generate above 1% up to full load | **TDA**: Generate above 1% up to full load | LGS Move Spillway Weir Hours within morning hours or next day morning | HGH & LIB modify ramping rates |
| LMN Move Spillway Weir Hours within morning hours or next day morning | HGH, LIB, ALF, GCL: increase project drafts as coordinated with operators | **JDA**: Generate above 1% up to full load | **JDA**: Generate above 1% up to full load | **JDA**: Generate above 1% up to full load | **JDA**: Generate above 1% up to full load | LMN Move Spillway Weir Hours within morning hours or next day morning | BON shut off sluiceway |
| IHR Move Spillway Weir Hours within morning hours or next day morning | HGH & LIB modify ramping rates as coordinated with operators | **MCN**: Generate above 1% up to 14.4 kcfs/unit | **MCN**: Generate above 1% up to 14.4 kcfs/unit | **MCN**: Generate above 1% up to 14.4 kcfs/unit | **MCN**: Generate above 1% up to 14.4 kcfs/unit | IHR Move Spillway Weir Hours within morning hours or next day morning | TDA shut off sluiceway |
| MCN Move Spillway Weir Hours within morning hours or next day morning | DWR: increase project drafts as coordinated with operators | **IHR**: Generate above 1% up to full load | **IHR**: Generate above 1% up to full load | **IHR**: Generate above 1% up to full load | **IHR**: Generate above 1% up to full load | MCN Move Spillway Weir Hours within morning hours or next day morning | Dworshak increase project drafts |
|  |  | **LMN**: Generate above 1% up to full load | **LMN**: Generate above 1% up to full load | **LMN**: Generate above 1% up to full load | **LMN**: Generate above 1% up to full load |  |  |
|  |  | **LGS**: Generate above 1% up to full load | **LGS**: Generate above 1% up to full load | **LGS**: Generate above 1% up to full load | **LGS**: Generate above 1% up to full load |  |  |
|  |  | **LWG**: Generate above 1% up to full load | **LWG**: Generate above 1% up to full load | **LWG**: Generate above 1% up to full load | **LWG**: Generate above 1% up to full load |  |  |
|  |  | Allow MOP excursion up to: 2 feet at IHR, LMN, LGS, and LWG (w/o reduction in FOP spill levels) | Allow MOP excursion up to: 2 feet at IHR, LMN, LGS, and LWG (w/o reduction in FOP spill levels) | Allow MOP excursion up to: 2 feet at IHR, LMN, LGS, and LWG (w/o reduction in FOP spill levels) | **BON**: Generate above 1% up to full load PH2 |  |  |

| March 1 – April 2 | April 3 – April 9 | April 10 – June 15 | June 16 – June 20 | June 21 – August 14 | August 15 to August 31 | September – November 15 | November 16 - End of Feb |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tier 2** | **Tier 2** | **Tier 2** | **Tier 2** | **Tier 2** | **Tier 2** | **Tier 2** | **Tier 2** |
| JDA shutoff adult attraction spill | IHR 30% of flow | LWG reduce spill to 20 kcfs | LWG reduce spill to 20 kcfs | LWG Reduce Spill to Spillway weir only | LWG reduce spill to zero | JDA shutoff adult attraction spill |  |
| BON shutoff adult attraction spill | LMN 30 kcfs flat | LGS reduce spill to 30% of flow | LGS reduce spill to 30% of flow | LGS Reduce Spill to Spillway weir only | LGS reduce spill to zero | BON shutoff adult attraction spill |  |
| HGH & LIB modify ramping rates | LGS 30% of flow | IHR reduce spill to 30% of flow | IHR reduce spill to 30% of flow | IHR Reduce Spill to Spillway weir only | LMN reduce spill to zero | HGH, LIB, ALF, GCL : increase project drafts |  |
| HGH, LIB, ALF, GCL : increase project drafts | LWG 20 kcfs | MCN reduce spill to 40% of flow | MCN reduce spill to 40% of flow | MCN 40% of flow | IHR reduce spill to zero | HGH & LIB modify ramping rates |  |
| DWR: increase project drafts |  | JDA reduce spill to 30% of flow | JDA reduce spill to 30% of flow | JDA 30% of flow | MCN reduce spill to zero |  |  |
|  |  | TDA reduce spill to 30% of flow | TDA reduce spill to 30% of flow | TDA 30% of flow | JDA reduce spill to zero |  |  |
|  |  | BON reduce spill to 100 kcfs | MCN generate outside 1% up to full load | BON 75 kcfs | BON reduce spill to zero |  |  |
|  |  | MCN generate outside 1% up to full load | BON2 operate outside 1% up to full load | MCN generate outside 1% up to full load | TDA reduce spill to zero |  |  |
|  |  | BON PH2 operate outside 1% up to full load | Allow MOP excursion up to 3 feet at IHR, LMN, LGS, and LWG | BON PH2 operate outside 1% up to full load |  |  |  |
|  |  | Allow MOP excursion up to 3 feet at IHR, LMN, LGS, and LWG |  | Allow MOP excursion up to 3 feet at IHR, LMN, LGS, and LWG |  |  |  |
| **Tier 3** | **Tier 3** | **Tier 3** | **Tier 3** | **Tier 3** | **Tier 3** | **Tier 3** | **Tier 3** |
| BON1 shut off sluiceway | BON shut off sluiceway | LWG reduce spill to 18 kcfs | LWG 18 kcfs of spill | MCN 30% of flow | BON1 shut off sluiceway | LWG reduce spill to zero |  |
| TDA shut off sluiceway | TDA shut off sluiceway | LMN reduce spill to 30% of flow | LMN 30% of flow | JDA Spillway Weir only | TDA shut off sluiceway | LGS reduce spill to zero |  |
| BON shut off B2CC | BON shut off B2CC | MCN reduce spill to 30% of flow | MCN 30% of flow | BON 50 kcfs | BON shut off B2CC | LMN reduce spill to zero |  |
|  |  | BON 95 kcfs | BON 50 kcfs | IHR reduce spill to zero |  | IHR reduce spill to zero |  |
|  |  | BON: Generate above 1% up to full load PH2 | BON: Generate above 1% up to full load PH2 | LMN reduce spill to zero |  | MCN reduce spill to zero |  |
|  |  |  |  | LGS reduce spill to zero |  | BON1 Shut off sluiceway |  |
|  |  |  |  | LWG reduce spill to zero |  | TDA Shut off sluiceway |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| March 1 – April 2 | April 3 – April 9 | April 10 – June 15 | June 16 – June 20 | June 21 – August 14 | August 15 to August 31 | September – November 15 | November 16 - End of Feb | |
| **Tier 4** | **Tier 4** | **Tier 4** | **Tier 4** | **Tier 4** | **Tier 4** | **Tier 4** | **Tier 4** | |
|  | LWG Reduce Spill to Spillway weir only | BON 75 kcfs | BON 75 kcfs | BON reduce spill to zero |  | DWR: increase project drafts |  | |
|  | LGS Reduce Spill to Spillway weir only | LWG Reduce Spill to Spillway weir only | LWG Reduce Spill to Spillway weir only | TDA reduce spill to zero |  |  |  | |
|  | LMN Reduce Spill to Spillway weir only | LGS Reduce Spill to Spillway weir only | LGS Reduce Spill to Spillway weir only |  |  |  |  | |
|  | IHR Reduce Spill to Spillway weir only | LMN Reduce Spill to Spillway weir only | LMN Reduce Spill to Spillway weir only |  |  |  |  | |
|  |  | IHR Reduce Spill to Spillway weir only | IHR Reduce Spill to Spillway weir only |  |  |  |  | |
|  |  | MCN Reduce Spill to Spillway weir only | MCN Reduce Spill to Spillway weir only |  |  |  |  | |
| **Tier 5** | **Tier 5** | **Tier 5** | **Tier 5** | **Tier 5** | **Tier 5** | **Tier 5** | | **Tier 5** |
|  | Reduce spill to zero at LWG | BON reduce spill to 50 kcfs | BON reduce spill to 50 kcfs |  |  |  |  | |
|  |  | BON reduces spill to zero | BON reduces spill to zero |  |  |  |  | |
|  | Reduce spill to zero at LGS | BON shutdown B1 Sluiceway | BON shutdown B1 Sluiceway |  |  |  |  | |
|  | Reduce spill to zero at LMN | BON shutdown B2CC | BON shutdown B2CC |  |  |  |  | |
|  | Reduce spill to zero at IHR |  |  |  |  |  |  | |
|  |  |  |  |  |  |  |  | |
| **Tier 6** | **Tier 6** | **Tier 6** | **Tier 6** | **Tier 6** | **Tier 6** | **Tier 6** | **Tier 6** | |
|  |  | LWG reduce spill to zero | LWG reduce spill to zero |  |  |  |  | |
|  |  | LGS reduce spill to zero | LGS reduce spill to zero |  |  |  |  | |
|  |  | LMN reduce spill to zero | LMN reduce spill to zero |  |  |  |  | |
|  |  | IHR reduce spill to zero | IHR reduce spill to zero |  |  |  |  | |
|  |  | MCN reduce spill to zero | MCN reduce spill to zero |  |  |  |  | |
|  |  | JDA reduce spill to zero | JDA reduce spill to zero |  |  |  |  | |
|  |  | TDA reduce spill to zero | TDA reduce spill to zero |  |  |  |  | |