

**Undertaking 56**

**Weekly ECC Operators Guidelines. Undertaking to provide weekly guidelines for a month in 2015**

Please see the following:

Undertaking 56, Attachment 1: Generation Guidelines for September 28, 2015

Undertaking 56, Attachment 2: Generation Guidelines for October 2, 2015

Undertaking 56, Attachment 3: Generation Guidelines for October 5, 2015

Undertaking 56, Attachment 1: Generation Guidelines for October 13, 2015

Undertaking 56, Attachment 1: Generation Guidelines for October 20, 2015

## Generation Guidelines for September 28, 2015

Changes since the previous guidelines are in red.

### Notes / Objectives:

Balance reservoirs.

There is a spill advisory in place for Star Lake.

Increase generation at Cat Arm since the reservoir is at 95% of its MOL.

Prepare for significant rainfall at Hinds Lake (80 + mm) and Cat Arm (60 + mm).

Request to close one gate at the Victoria Control Structure.

### 1. GENERATION PRIORITIES

<b>Granite Canal</b>	<b>Operate at Economic Low of 24 MW for 24 hours per day.</b> (Minimum of 12 hours per day is required as per SOSP-006.)
<b>Upper Salmon</b>	<b>Operate at Economic Low of 65 MW for 24 hours per day.</b>
<b>Bay d'Espoir</b>	<b>Operate to supply the balance of load.</b>
<b>Cat Arm</b>	<b>Operate two units at Economic Low of 45 MW.</b>
<b>Hinds Lake</b>	<b>Operate at Economic Low of 60 MW for 12 hours per day.</b>
<b>Paradise River</b>	Plant is operating normally.
<b>Star Lake</b>	Plant is operating normally. A spill advisory has been issued.
<b>Exploits Generation</b>	Flows and generation are returning to normal.
<b>Non-Utility (Wind)</b>	St Lawrence: All 9 units in operation, production will vary. Fermeuse: All 9 units in operation, production will vary.
<b>Deer Lake Power</b>	Operating normally.

### Avalon and Holyrood Guidelines

<b>Holyrood Unit - Status</b>	Unit 1 - Off Unit 2 - Off Unit 3 - 70 MW
<b>Holyrood Unit - Avalon Load Thresholds and Comments</b>	Three-unit operation > 730 MW Two-unit operation > 570 MW One-unit operation > 325 MM

**Other Avalon related Generation**

When Avalon Load forecasts indicate a need to operate Holyrood units or operate units at greater than minimum, ECC should request NP to maximize hydraulic generation on the Avalon.

**2. PRIORITY OF GENERATION SHUTDOWN OR LOAD REDUCTION -**

1	Reduce Bay d'Espoir to one small unit and Unit 7
2	Reduce Bay d'Espoir to two small units and Unit 7 in sync condense
3	Shut down Hinds Lake respecting hours above.
4	Reduce Cat Arm units to 30 MW.
5	Shut down one unit at Cat Arm.
6	

**\*\* Note:** Maintain West Coast voltages at acceptable levels (i.e. BBK below 246 KV) while respecting reliability, security and efficiency throughout the system.

As examples:

- Lower unit voltages while adhering to the current generator scheduling guideline and generator capability limits (this may include requests to NUGs and/or customer owned generation).
- Remove TL233 from service, while adhering to the single worst case contingency for the West Coast.
- Operate an extra unit at Bay d'Espoir to increase the overall MVAR absorption capability of the system.
- Hinds Lake Operation as required for West Coast Voltage issues.

**3. UNDERFREQUENCY LOAD SHEDDING**

**Follow the maximum unit loading with respect to the Underfrequency Load Shedding Limit guidelines.** When there are reports of lightning or other activity which may cause a trip of TL247 or TL248 the load on TL247 should be reduced to comply with the Underfrequency Load Shedding Limit guideline. Similarly, the load on TL234 should be reduced for troubles in the Upper Salmon area.

**4. HYDROLOGY**

<b>Victoria Control</b>	Currently there are two gates open at the Victoria Control Structure. Request has been made to close one gate. Operate Victoria gates to keep Granite Reservoir in its upper operating range of 311.77 m - 311.92 m.
<b>Burnt Pond</b>	Gates at Burnt are closed.

<b>Granite Bypass</b>	Bypass Gates are closed.
<b>Ebbe Control</b>	Operate as required to keep Meelpaeg at or below MOL and to keep Upper Salmon intake in its normal operating range of 245.8 m and 246.8 m.
<b>North Salmon</b>	Spilling at North Salmon if reservoir level goes above 247.31 m. Gates should be opened in approximately 0.5 m increments until an opening of 2.0 m is achieved. Spill until reservoir reduces to 247.25 m.
<b>West Salmon</b>	Spill at West Salmon Dam if Cold Spring Pond elevation is above 247.31 m. Stop spilling when elevation reduces below 247.31 m. Spill at West Salmon Dam if the intake level is consistently above 246.85 m (based on manual/actual readings).
<b>Upper Salmon</b>	<del>If spill is imminent at either Great Burnt Lake or Cold Spring Pond, Upper Salmon should be operated Fixed at 88MW. Guidance will be provided from System Operations if this is required.</del>
<b>Long Pond</b>	Spill gates are closed. Spill at Salmon River Spillway if water level in Long Pond goes above 182.73 m. Open with stepped openings. Keep reservoir below 182.75 m.
<b>Hinds Lake</b>	Spill gates are closed.
<b>Fisheries Compensation</b>	Annual monitoring of Grey River and White Bear River flows is required starting June 1 <sup>st</sup> . Release of water at Pudops and Burnt Dam is required if flows drop below target levels. Reference System Operations Standard Procedure 002 for further information. The requirement for monitoring flows at White Bear finishes on September 30.

## 5. CUSTOMER REQUIREMENTS

	Kruger Corner Brook	North Atlantic Come by Chance	Teck Resources Duck Pond	Vale	Praxair
Power On Order	8,000 kW	29,500 kW	9,500 kW	24,000 kW	5,000 kW
Available Interruptible	2,000 kW	5,000 kW	2,375 kW	6,000 kW	1,250 kW
Generation Outage	0 kW				
Total	10,000 kW	34,500 kW	11,875 kW	30,000 kW	6,250 kW

## Generation Guidelines for October 2, 2015

Changes since the previous guidelines are in red.

### Notes /Objectives:

Balance reservoirs.

There are spill advisories in place for Star Lake and Cat Arm; the advisory at Star Lake may be ended today.

Increase generation at Cat Arm since the reservoir is at 96% of its MOL.

Request to open one gate at the Victoria Control Structure on October 3, prior to the outage.

### 1. GENERATION PRIORITIES

<b>Granite Canal</b>	<b>Operate at Economic Low of 24 MW for 24 hours per day.</b> (Minimum of 12 hours per day is required as per SOSP-006.)
<b>Upper Salmon</b>	<b>Operate at Economic Low of 65 MW for 24 hours per day.</b>
<b>Bay d'Espoir</b>	<b>Operate to supply the balance of load.</b>
<b>Cat Arm</b>	<b>Operate two units at Economic Low of 60 MW.</b>
<b>Hinds Lake</b>	<b>Operate at Economic Low of 60 MW for 12 hours per day.</b>
<b>Paradise River</b>	Plant is operating normally.
<b>Star Lake</b>	Plant is operating normally. A spill advisory has been issued.
<b>Exploits Generation</b>	Flows and generation are returning to normal.
<b>Non-Utility (Wind)</b>	St Lawrence: All 9 units in operation, production will vary. Fermeuse: All 9 units in operation, production will vary.
<b>Deer Lake Power</b>	Operating normally.

### Avalon and Holyrood Guidelines

<b>Holyrood Unit - Status</b>	Unit 1 - Off Unit 2 - Off Unit 3 - 70 MW
<b>Holyrood Unit - Avalon Load Thresholds and Comments</b>	Three-unit operation > 730 MW Two-unit operation > 570 MW One-unit operation > 325 MM
<b>Other Avalon related Generation</b>	When Avalon Load forecasts indicate a need to operate Holyrood units or operate

units at greater than minimum, ECC should request NP to maximize hydraulic generation on the Avalon.

2. **PRIORITY OF GENERATION SHUTDOWN OR LOAD REDUCTION -**

1	Reduce Bay d'Espoir to one small unit and Unit 7
2	Reduce Bay d'Espoir to two small units and Unit 7 in sync condense
3	Shut down Hinds Lake respecting hours above.
4	Reduce Cat Arm units to 30 MW.
5	Shut down one unit at Cat Arm.
6	

\*\* Note: Maintain West Coast voltages at acceptable levels (i.e. BBK below 246 KV) while respecting reliability, security and efficiency throughout the system.

As examples:

- Lower unit voltages while adhering to the current generator scheduling guideline and generator capability limits (this may include requests to NUGs and/or customer owned generation).
- Remove TL233 from service, while adhering to the single worst case contingency for the West Coast.
- Operate an extra unit at Bay d'Espoir to increase the overall MVAR absorption capability of the system.
- Hinds Lake Operation as required for West Coast Voltage issues.

3. **UNDERFREQUENCY LOAD SHEDDING**

Follow the maximum unit loading with respect to the Underfrequency Load Shedding Limit guidelines. When there are reports of lightning or other activity which may cause a trip of TL247 or TL248 the load on TL247 should be reduced to comply with the Underfrequency Load Shedding Limit guideline. Similarly, the load on TL234 should be reduced for troubles in the Upper Salmon area.

4. **HYDROLOGY**

<b>Victoria Control</b>	Currently there are no gates open at the Victoria Control Structure. A request is being made to open one gate on October 3, prior to the start of the outage. Operation of the gates will be possible during the outage using the emergency mechanism.
<b>Burnt Pond</b>	Gates at Burnt are closed.
<b>Granite Bypass</b>	Bypass Gates are closed.

<b>Ebbe Control</b>	Operate as required to keep Meelpaeg at or below MOL and to keep Upper Salmon intake in its normal operating range of 245.8 m and 246.8 m.
<b>North Salmon</b>	Spilling at North Salmon if reservoir level goes above 247.31 m. Gates should be opened in approximately 0.5 m increments until an opening of 2.0 m is achieved. Spill until reservoir reduces to 247.25 m.
<b>West Salmon</b>	Spill at West Salmon Dam if Cold Spring Pond elevation is above 247.31 m. Stop spilling when elevation reduces below 247.31 m. Spill at West Salmon Dam if the intake level is consistently above 246.85 m (based on manual/actual readings).
<b>Upper Salmon</b>	<del>If spill is imminent at either Great Burnt Lake or Cold Spring Pond, Upper Salmon should be operated Fixed at 88MW. Guidance will be provided from System Operations if this is required.</del>
<b>Long Pond</b>	Spill gates are closed. Spill at Salmon River Spillway if water level in Long Pond goes above 182.73 m. Open with stepped openings. Keep reservoir below 182.75 m.
<b>Hinds Lake</b>	Spill gates are closed.
<b>Fisheries Compensation</b>	The requirement for monitoring flows at White Bear finished on September 30. Annual monitoring of Grey River continues till October 31st. Release of water at Pudops is required if flows drop below target levels. Reference System Operations Standard Procedure 002 for further information.

## 5. CUSTOMER REQUIREMENTS

	Kruger Corner Brook	North Atlantic Come by Chance	Teck Resources Duck Pond	Vale	Praxair
Power On Order	8,000 kW	29,500 kW	9,500 kW	27,000 kW	5,000 kW
Available Interruptible	2,000 kW	5,000 kW	2,375 kW	6,750 kW	1,250 kW
Generation Outage	0 kW				
<b>Total</b>	<b>10,000 kW</b>	<b>34,500 kW</b>	<b>11,875 kW</b>	<b>33,750 kW</b>	<b>6,250 kW</b>

## Generation Guidelines for **October 5, 2015**

Changes since the previous guidelines are in red.

### Notes / Objectives:

Balance reservoirs.

There is a spill advisory in place for Cat Arm. The advisory at Star Lake has been removed.

Maintain high generation at Cat Arm since the reservoir is at 96% of its MOL.

A request has been made to open a second gate at Victoria.

### 1. GENERATION PRIORITIES

<b>Granite Canal</b>	<b>Operate at Economic Low of 24 MW for 24 hours per day.</b> (Minimum of 12 hours per day is required as per SOSP-006.)
<b>Upper Salmon</b>	<b>Operate at Economic Low of 65 MW for 24 hours per day.</b>
<b>Bay d'Espoir</b>	<b>Operate to supply the balance of load.</b>
<b>Cat Arm</b>	<b>Operate two units at Economic Low of 60 MW.</b>
<b>Hinds Lake</b>	<b>Operate at Economic Low of 60 MW for 18 hours per day.</b>
<b>Paradise River</b>	Plant is operating normally.
<b>Star Lake</b>	Plant is operating normally. A spill advisory has been issued.
<b>Exploits Generation</b>	Flows and generation are returning to normal.
<b>Non-Utility (Wind)</b>	St Lawrence: All 9 units in operation, production will vary. Fermeuse: All 9 units in operation, production will vary.
<b>Deer Lake Power</b>	Operating normally.

### Avalon and Holyrood Guidelines

<b>Holyrood Unit - Status</b>	Unit 1 - Off Unit 2 - Off Unit 3 - 70 MW
<b>Holyrood Unit - Avalon Load Thresholds and Comments</b>	Three-unit operation > 730 MW Two-unit operation > 570 MW One-unit operation > 325 MM
<b>Other Avalon related Generation</b>	When Avalon Load forecasts indicate a



need to operate Holyrood units or operate units at greater than minimum, ECC should request NP to maximize hydraulic generation on the Avalon.

**2. PRIORITY OF GENERATION SHUTDOWN OR LOAD REDUCTION -**

<b>1</b>	<b>Reduce Bay d'Espoir to one small unit and Unit 7</b>
<b>2</b>	<b>Reduce Bay d'Espoir to two small units and Unit 7 in sync condense</b>
<b>3</b>	<b>Shut down Hinds Lake respecting hours above.</b>
<b>4</b>	<b>Reduce Cat Arm units to 30 MW.</b>
<b>5</b>	<b>Shut down one unit at Cat Arm.</b>
<b>6</b>	

**\*\*** Note: Maintain West Coast voltages at acceptable levels (i.e. BBK below 246 KV) while respecting reliability, security and efficiency throughout the system.

As examples:

- Lower unit voltages while adhering to the current generator scheduling guideline and generator capability limits (this may include requests to NUGs and/or customer owned generation).
- Remove TL233 from service, while adhering to the single worst case contingency for the West Coast.
- Operate an extra unit at Bay d'Espoir to increase the overall MVAR absorption capability of the system.
- Hinds Lake Operation as required for West Coast Voltage issues.

**3. UNDERFREQUENCY LOAD SHEDDING**

**Follow the maximum unit loading with respect to the Underfrequency Load Shedding Limit guidelines.** When there are reports of lightning or other activity which may cause a trip of TL247 or TL248 the load on TL247 should be reduced to comply with the Underfrequency Load Shedding Limit guideline. Similarly, the load on TL234 should be reduced for troubles in the Upper Salmon area.

**4. HYDROLOGY**

**Victoria Control** Currently there is one gate open at the Victoria Control Structure. A request to open a second gate at Victoria has been made.

Operation of the gates will be possible during outage using the emergency mechanism.

<b>Burnt Pond</b>	Gates at Burnt are closed.
<b>Granite Bypass</b>	Bypass Gates are closed.
<b>Ebbe Control</b>	Operate as required to keep Meelpaeg at or below MOL and to keep Upper Salmon Intake in its normal operating range of 245.8 m and 246.8 m.
<b>North Salmon</b>	Spilling at North Salmon if reservoir level goes above 247.31 m. Gates should be opened in approximately 0.5 m increments until an opening of 2.0 m is achieved. Spill until reservoir reduces to 247.25 m.
<b>West Salmon</b>	Spill at West Salmon Dam if Cold Spring Pond elevation is above 247.31 m. Stop spilling when elevation reduces below 247.31 m. Spill at West Salmon Dam if the intake level is consistently above 246.85 m (based on manual/actual readings).
<b>Upper Salmon</b>	<del>If spill is imminent at either Great Burnt Lake or Cold Spring Pond, Upper Salmon should be operated Fixed at 88 MW. Guidance will be provided from System Operations if this is required.</del>
<b>Long Pond</b>	Spill gates are closed. Spill at Salmon River Spillway if water level in Long Pond goes above 182.73 m. Open with stepped openings. Keep reservoir below 182.75 m.
<b>Hinds Lake</b>	Spill gates are closed.
<b>Fisheries Compensation</b>	The requirement for monitoring flows at White Bear has ended. Annual monitoring of Grey River continues till October 31st. Release of water at Pudops is required if flows drop below target levels. Reference System Operations Standard Procedure 002 for further information.

## 5. CUSTOMER REQUIREMENTS

	Kruger Corner Brook	North Atlantic Come by Chance	Teck Resources Duck Pond	Vale	Praxair
Power On Order	8,000 kW	29,500 kW	9,500 kW	27,000 kW	5,200 kW
Available Interruptible	2,000 kW	5,000 kW	2,375 kW	6,750 kW	1,300 kW
Generation Outage	0 kW				
Total	10,000 kW	34,500 kW	11,875 kW	33,750 kW	6,500 kW

## Generation Guidelines for **October 13, 2015**

Changes since the previous guidelines are in red.

### Notes / Objectives:

Balance reservoirs.

The spill advisory for Cat Arm will be removed today, but high generation should continue to attempt to draw the reservoir down further.

Hinds Lake is sufficiently low prior to the upcoming outage so generation there can be reduced.

**Please note the schedule below for Victoria gate openings to facilitate the ongoing rehabilitation work.**

### 1. GENERATION PRIORITIES

Granite Canal	Operate at Economic Low of 24 MW for 24 hours per day until Thursday October 15. Starting Thursday afternoon, Operate at Economic Low of 28 MW for 24 hours per day (starting Friday October 16 Granite must be operated between 28 MW and 41 MW for 24 hours per day as per SOSP-006.)
Upper Salmon	Operate at Economic Low of 65 MW for 24 hours per day.
Bay d'Espoir	Operate to supply the balance of load.
Cat Arm	Operate two units at Economic Low of 60 MW.
Hinds Lake	Operate at Economic Low of 60 MW for 10 hours per day.
Paradise River	Plant is operating normally.
Star Lake	Plant is operating normally.
Exploits Generation	Flows and generation are returning to normal.
Non-Utility (Wind)	St Lawrence: All 9 units in operation, production will vary. Fermeuse: All 9 units in operation, production will vary.
Deer Lake Power	Operating normally.

### Avalon and Holyrood Guidelines

Holyrood Unit - Status	Unit 1 - Off Unit 2 - 70 MW Unit 3 - ABNO
------------------------	---

<b>Holyrood Unit - Avalon Load Thresholds and Comments</b>	Three-unit operation > 730 MW Two-unit operation > 570 MW One-unit operation > 325 MM
<b>Other Avalon related Generation</b>	When Avalon Load forecasts indicate a need to operate Holyrood units or operate units at greater than minimum, ECC should request NP to maximize hydraulic generation on the Avalon.

## 2. PRIORITY OF GENERATION SHUTDOWN OR LOAD REDUCTION -

1	<b>Reduce Bay d'Espoir to one small unit and Unit 7</b>
2	<b>Reduce Bay d'Espoir to two small units and Unit 7 in sync condense</b>
3	<b>Shut down Hinds Lake respecting hours above.</b>
4	<b>Reduce Cat Arm units to 30 MW.</b>
5	<b>Shut down one unit at Cat Arm.</b>
6	
**	<p>Note: Maintain West Coast voltages at acceptable levels (i.e. BBK below 246 KV) while respecting reliability, security and efficiency throughout the system.</p> <p>As examples:</p> <ul style="list-style-type: none"> <li>- Lower unit voltages while adhering to the current generator scheduling guideline and generator capability limits (this may include requests to NUGs and/or customer owned generation).</li> <li>- Remove TL233 from service, while adhering to the single worst case contingency for the West Coast.</li> <li>- Operate an extra unit at Bay d'Espoir to increase the overall MVAR absorption capability of the system.</li> <li>- Hinds Lake Operation as required for West Coast Voltage issues.</li> </ul>

## 3. UNDERFREQUENCY LOAD SHEDDING

**Follow the maximum unit loading with respect to the Underfrequency Load Shedding Limit guidelines.** When there are reports of lightning or other activity which may cause a trip of TL247 or TL248 the load on TL247 should be reduced to comply with the Underfrequency Load Shedding Limit guideline. Similarly, the load on TL234 should be reduced for troubles in the Upper Salmon area.

## 4. HYDROLOGY

<b>Victoria Control</b>	Currently there are two gates open at the Victoria Control Structure. A request has been made to open one additional gate (three total). The following schedule should be followed during the ongoing rehab work:
-------------------------	---

	<p>Close gate #3 early on Oct 15 to allow for work on gates #3 and #4 (gates #1 and #2 to remain open)</p> <p>Open gate #3 and close gates #1 and #2 early on Oct 16 to allow for work on gates #1 and #2</p> <p>When work is complete on Oct 16 have two gates open until all gates must be closed prior to the work starting on Oct 19.</p>
<b>Burnt Pond</b>	Gates at Burnt are closed.
<b>Granite Bypass</b>	Bypass Gates are closed.
<b>Ebbe Control</b>	Operate as required to keep Meelpaeg at or below MOL and to keep Upper Salmon intake in its normal operating range of 245.8 m and 246.8 m.
<b>North Salmon</b>	Spilling at North Salmon if reservoir level goes above 247.31 m. Gates should be opened in approximately 0.5 m increments until an opening of 2.0 m is achieved. Spill until reservoir reduces to 247.25 m.
<b>West Salmon</b>	Spill at West Salmon Dam if Cold Spring Pond elevation is above 247.31 m. Stop spilling when elevation reduces below 247.31 m. Spill at West Salmon Dam if the intake level is consistently above 246.85 m (based on manual/actual readings).
<b>Upper Salmon</b>	<del>If spill is imminent at either Great Burnt Lake or Cold Spring Pond, Upper Salmon should be operated Fixed at 88 MW. Guidance will be provided from System Operations if this is required.</del>
<b>Long Pond</b>	Spill gates are closed. Spill at Salmon River Spillway if water level in Long Pond goes above 182.73 m. Open with stepped openings. Keep reservoir below 182.75 m.
<b>Hinds Lake</b>	Spill gates are closed.
<b>Fisheries Compensation</b>	Annual monitoring of Grey River continues till October 31st. Release of water at Pudops is required if flows drop below target levels. Reference System Operations Standard Procedure 002 for further information.

#### 5. CUSTOMER REQUIREMENTS

	Kruger Corner Brook	North Atlantic Come by Chance	Teck Resources Duck Pond	Vale	Praxair
Power On Order	8,000 kW	29,500 kW	9,500 kW	27,000 kW	5,200 kW
Available Interruptible	2,000 kW	5,000 kW	2,375 kW	6,750 kW	1,300 kW
Generation Outage	0 kW				
<b>Total</b>	<b>10,000 kW</b>	<b>34,500 kW</b>	<b>11,875 kW</b>	<b>33,750 kW</b>	<b>6,500 kW</b>

## Generation Guidelines for October 20, 2015

Changes since the previous guidelines are in red.

### Notes / Objectives:

Balance reservoirs.

Maximum generation to continue at Cat Arm while water level is high.

Hinds Lake is sufficiently low prior to the upcoming outage so generation there can be reduced.

Please note the schedule below for Victoria gate : gates are currently all closed to facilitate rehabilitation work, when the work is over 1 or 2 gates should be opened.

### 1. GENERATION PRIORITIES

<b>Granite Canal</b>	<b>Operate at Economic Low of 28 MW for 24 hours per day (until November 16 Granite must be operated between 28MW and 41MW for 24 hours per day as per SOSP-006.)</b>
<b>Upper Salmon</b>	<b>Operate at Economic Low of 65 MW for 24 hours per day.</b>
<b>Bay d'Espoir</b>	<b>Operate to supply the balance of load.</b>
<b>Cat Arm</b>	<b>Operate two units at Economic Low of 60 MW.</b>
<b>Hinds Lake</b>	<b>Operate at Economic Low of 60 MW only as required for system stability.</b>
<b>Paradise River</b>	Plant is operating normally.
<b>Star Lake</b>	Plant is operating normally.
<b>Exploits Generation</b>	Exploits Generation has been requested to reduce generation as allowed within its operational criteria.
<b>Non-Utility (Wind)</b>	St Lawrence: All 9 units in operation, production will vary. Fermeuse: All 9 units in operation, production will vary.
<b>Deer Lake Power</b>	Operating normally.

### Avalon and Holyrood Guidelines

<b>Holyrood Unit - Status</b>	Unit 1 - Off Unit 2 - 70 MW Unit 3 - ABNO. Unit 3 has been requested on for October 23 & 24.
<b>Holyrood Unit - Avalon Load Thresholds and Comments</b>	Three-unit operation > 730 MW Two-unit operation > 570 MW

	One-unit operation > 325 MM
<b>Other Avalon related Generation</b>	When Avalon Load forecasts indicate a need to operate Holyrood units or operate units at greater than minimum, ECC should request NP to maximize hydraulic generation on the Avalon.

## 2. PRIORITY OF GENERATION SHUTDOWN OR LOAD REDUCTION -

1	Shut down Hinds Lake
2	Reduce Bay d'Espoir to one small unit and Unit 7
3	Reduce Bay d'Espoir to two small units and Unit 7 in sync condense
4	Reduce Cat Arm units to 30 MW
5	Shut down one unit at Cat Arm
6	
**	Note: Maintain West Coast voltages at acceptable levels (i.e. BBK below 246 KV) while respecting reliability, security and efficiency throughout the system.  As examples: <ul style="list-style-type: none"> <li>• Lower unit voltages while adhering to the current generator scheduling guideline and generator capability limits (this may include requests to NUGs and/or customer owned generation).</li> <li>• Remove TL233 from service, while adhering to the single worst case contingency for the West Coast.</li> <li>• Operate an extra unit at Bay d'Espoir to increase the overall MVAR absorption capability of the system.</li> <li>• Hinds Lake Operation as required for West Coast Voltage Issues.</li> </ul>

## 3. UNDERFREQUENCY LOAD SHEDDING

**Follow the maximum unit loading with respect to the Underfrequency Load Shedding Limit guidelines.** When there are reports of lightning or other activity which may cause a trip of TL247 or TL248 the load on TL247 should be reduced to comply with the Underfrequency Load Shedding Limit guideline. Similarly, the load on TL234 should be reduced for troubles in the Upper Salmon area.

## 4. HYDROLOGY

<b>Victoria Control</b>	Currently all gates are closed at the Victoria Control Structure to facilitate rehab work. When work is complete at least one gate should be opened. Gates should be operated to keep Granite in the top half of its operating range 311.77 m - 311.92 m.
<b>Burnt Pond</b>	Gates at Burnt are closed.

<b>Granite Bypass</b>	Bypass Gates are closed.
<b>Ebbe Control</b>	Operate as required to keep Meelpaeg at or below MOL and to keep Upper Salmon intake in its normal operating range of 245.8 m and 246.8 m.
<b>North Salmon</b>	Spilling at North Salmon if reservoir level goes above 247.31 m. Gates should be opened in approximately 0.5 m increments until an opening of 2.0 m is achieved. Spill until reservoir reduces to 247.25 m.
<b>West Salmon</b>	Spill at West Salmon Dam if Cold Spring Pond elevation is above 247.31 m. Stop spilling when elevation reduces below 247.31 m. Spill at West Salmon Dam if the intake level is consistently above 246.85 m (based on manual/actual readings).
<b>Upper Salmon</b>	<del>If spill is imminent at either Great Burnt Lake or Cold Spring Pond, Upper Salmon should be operated Fixed at 88 MW. Guidance will be provided from System Operations if this is required.</del>
<b>Long Pond</b>	Spill gates are closed. Spill at Salmon River Spillway if water level in Long Pond goes above 182.73 m. Open with stepped openings. Keep reservoir below 182.75 m.
<b>Hinds Lake</b>	Spill gates are closed.
<b>Fisheries Compensation</b>	Annual monitoring of Grey River continues till October 31st. Release of water at Pudops is required if flows drop below target levels. Reference System Operations Standard Procedure 002 for further information.

##### 5. CUSTOMER REQUIREMENTS

	Kruger Corner Brook	North Atlantic Come by Chance	Teck Resources Duck Pond	Vale	Praxair
Power On Order	8,000 kW	29,500 kW	9,500 kW	27,000 kW	5,200 kW
Available Interruptible	2,000 kW	5,000 kW	2,375 kW	6,750 kW	1,300 kW
Generation Outage	0 kW				
Total	10,000 kW	34,500 kW	11,875 kW	33,750 kW	6,500 kW