



# Scheduling Workshop

## February 4, 2008

# Agenda

**8:00am**

8:20am

8:25am

9:20am

9:50am

**10:00am**

10:15am

11:15pm

11:30am

**12:00pm**

12:30pm

1:15pm

1:25pm

1:30pm

1:40pm

**2:15pm**

2:30pm

3:30pm

4:10pm

## **BREAKFAST**

Welcome & Introduction

BC Power System

Available Transfer Capability

Transmission Services

## **BREAK**

Long-Term Transmission Scheduling

Scheduling Tools and OASIS

Reserving Transmission

## **LUNCH**

Scheduling Energy

Interruptions and Curtailments

Loss Compensation Service

Settlement and Billing

Pre-schedule Displacements

## **BREAK**

Pre-schedule Displacements – Scenarios

Network Economy

Wrap up and Thank-You

Brenda Ambrosi

Rod Byrnell

Stephen Tran

Stephen Tran

Stephen Tran

Raj Hundal

Raj Hundal

Raj Hundal

Raj Hundal

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Raj Hundal

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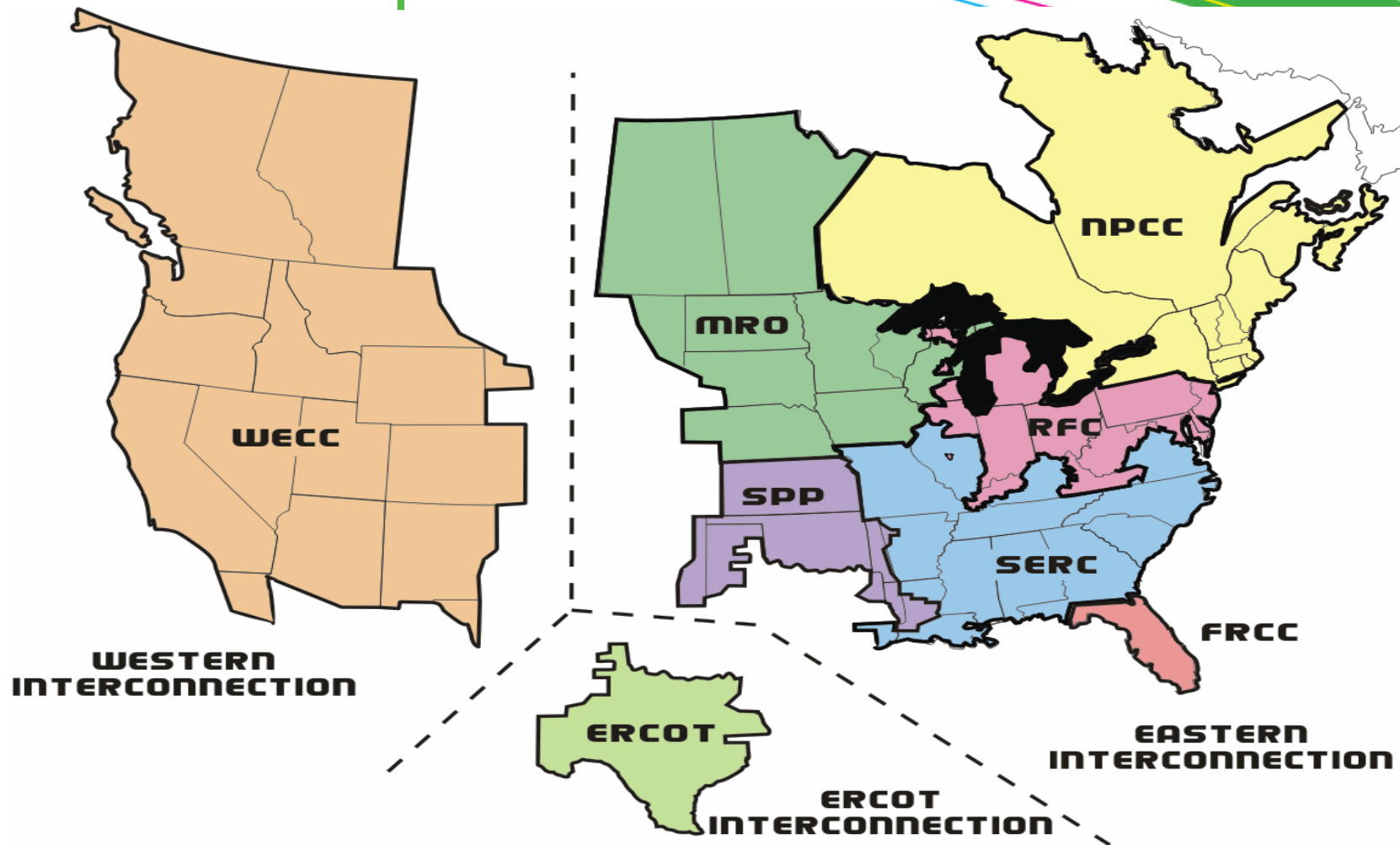
Brenda Ambrosi

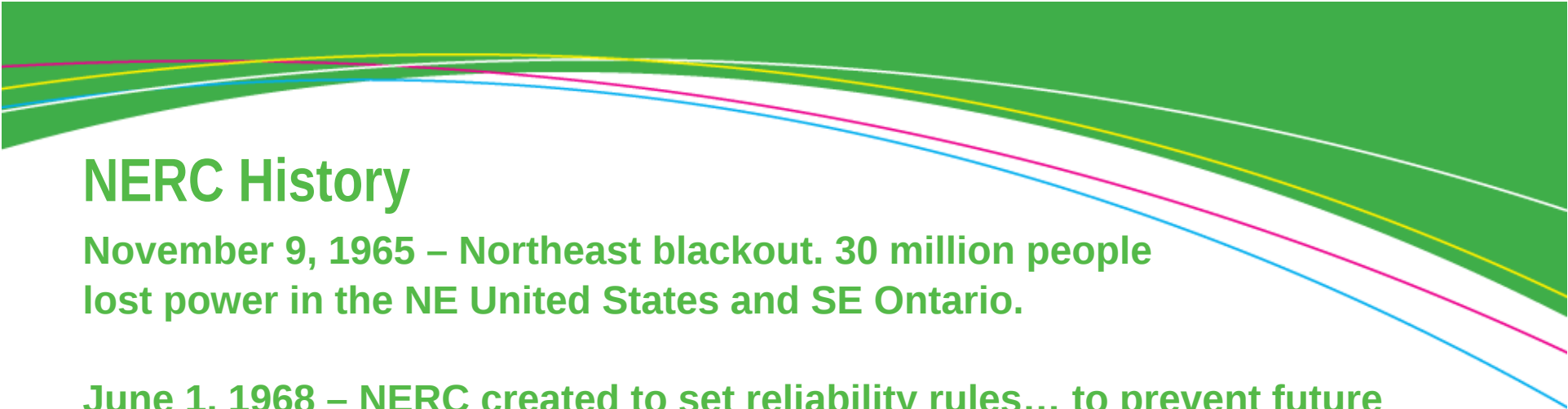
# BC Transmission System

- NERC / Western Interconnection
- BC Transmission System
- System Regions
- Balancing, Interchange, and Transmission
- Limits / Stability
- WECC Path Ratings
- Congestion Points
- WECC Operating Transfer Capability
- Total Transfer Capability
- Firm Total Transfer Capability
- Outages (Planned and Forced) – Impacts
- Transmission Reliability Margin
- Disturbances



# NERC Footprint





## NERC History

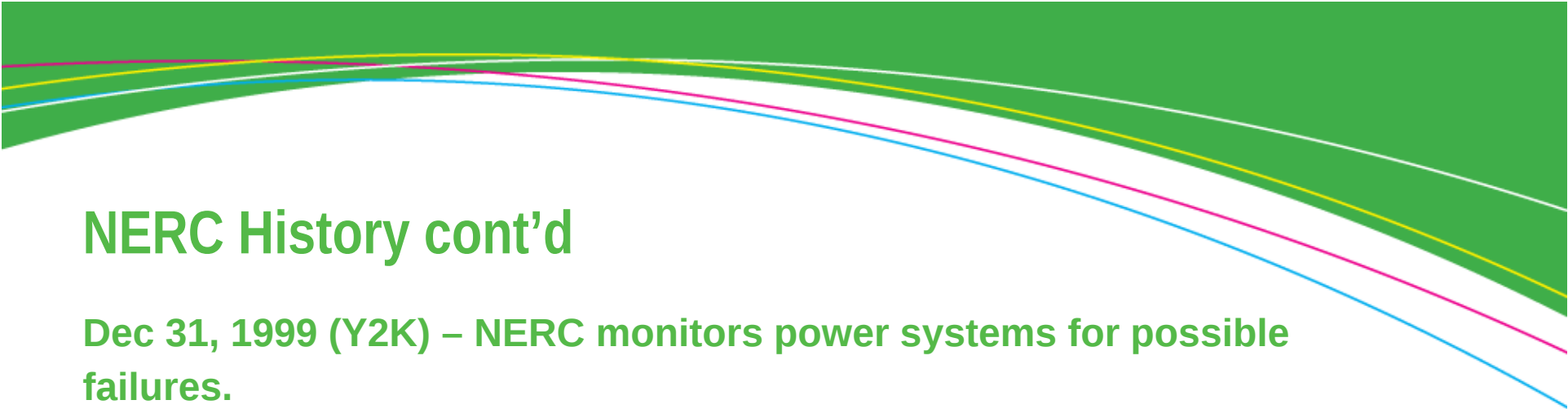
November 9, 1965 – Northeast blackout. 30 million people lost power in the NE United States and SE Ontario.

June 1, 1968 – NERC created to set reliability rules... to prevent future blackouts. Criteria and guides maintained and practiced voluntarily.

July 13-14, 1977 – Blackout in New York City occurs again.

1996 – Two major blackouts in the western United States prompts some WECC members to enter into agreements to pay fines if they violated certain reliability standards. BPA adopts practice not to operate their system in any unstudied condition.

1997 – NERC sets out to implement the blue-ribbon panel's recommendation of a self-regulatory reliability organization. NERC began work to convert planning guides into planning standards.



## NERC History cont'd

Dec 31, 1999 (Y2K) – NERC monitors power systems for possible failures.

August 14, 2003 – North America experiences worst blackout ever, 50 million people lost power in the NE and Midwest US and Ontario.

July 20, 2006 – FERC certified NERC as the “electric reliability organization” for the United States.

June 4, 2007 – Compliance with approved NERC Reliability Standards becomes mandatory and enforceable in the United States. Canadian Provinces working through their regulators to make Standards enforceable in each of their jurisdictions.

# Western Interconnection (WECC)

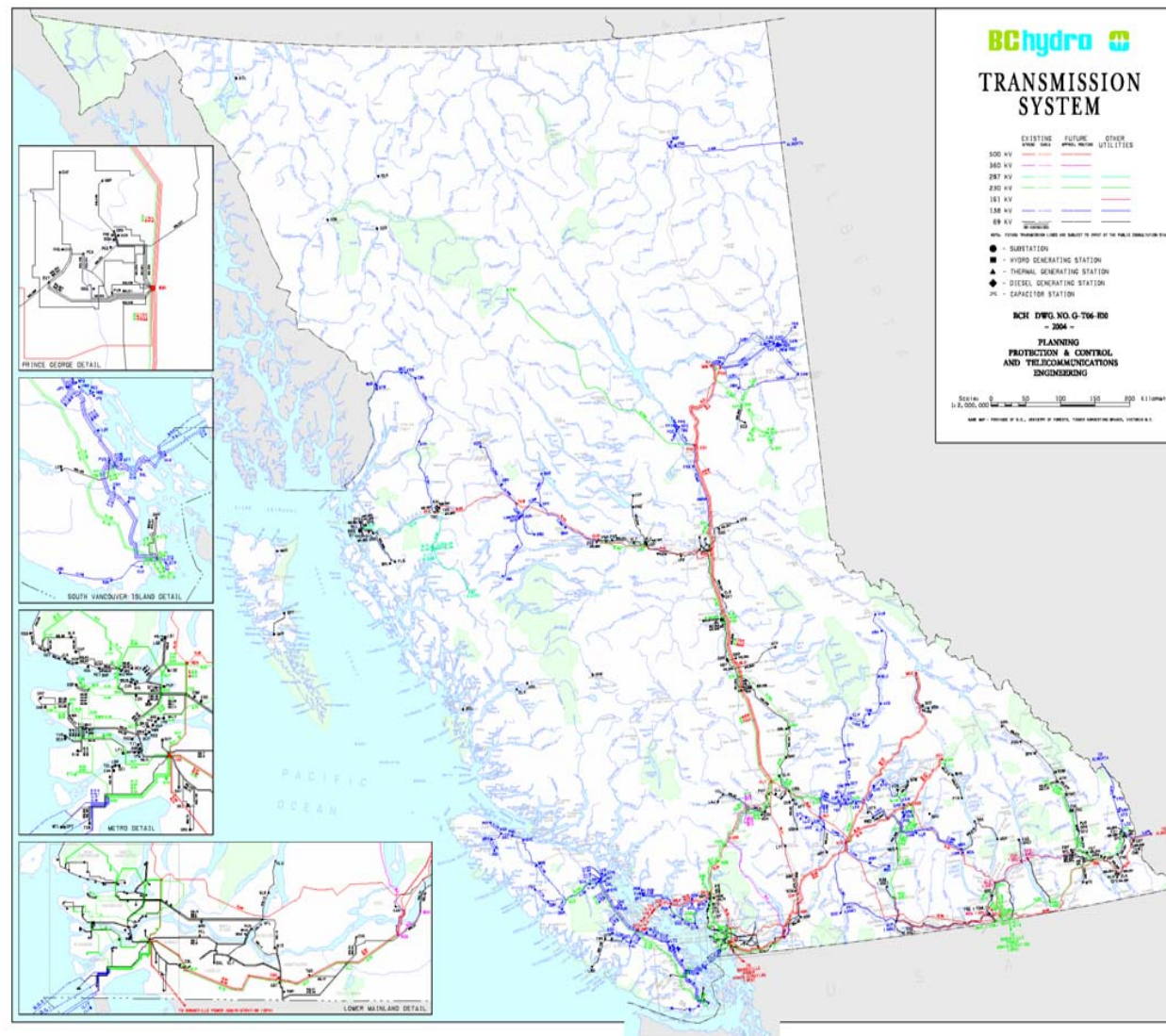
The Western Interconnection is a synchronous connection of interconnected utilities with the sole mandate of providing reliable service.

The Western Electricity Coordinating Council (WECC) is the regulatory body within NERC charged with ensuring this reliable service is provided.

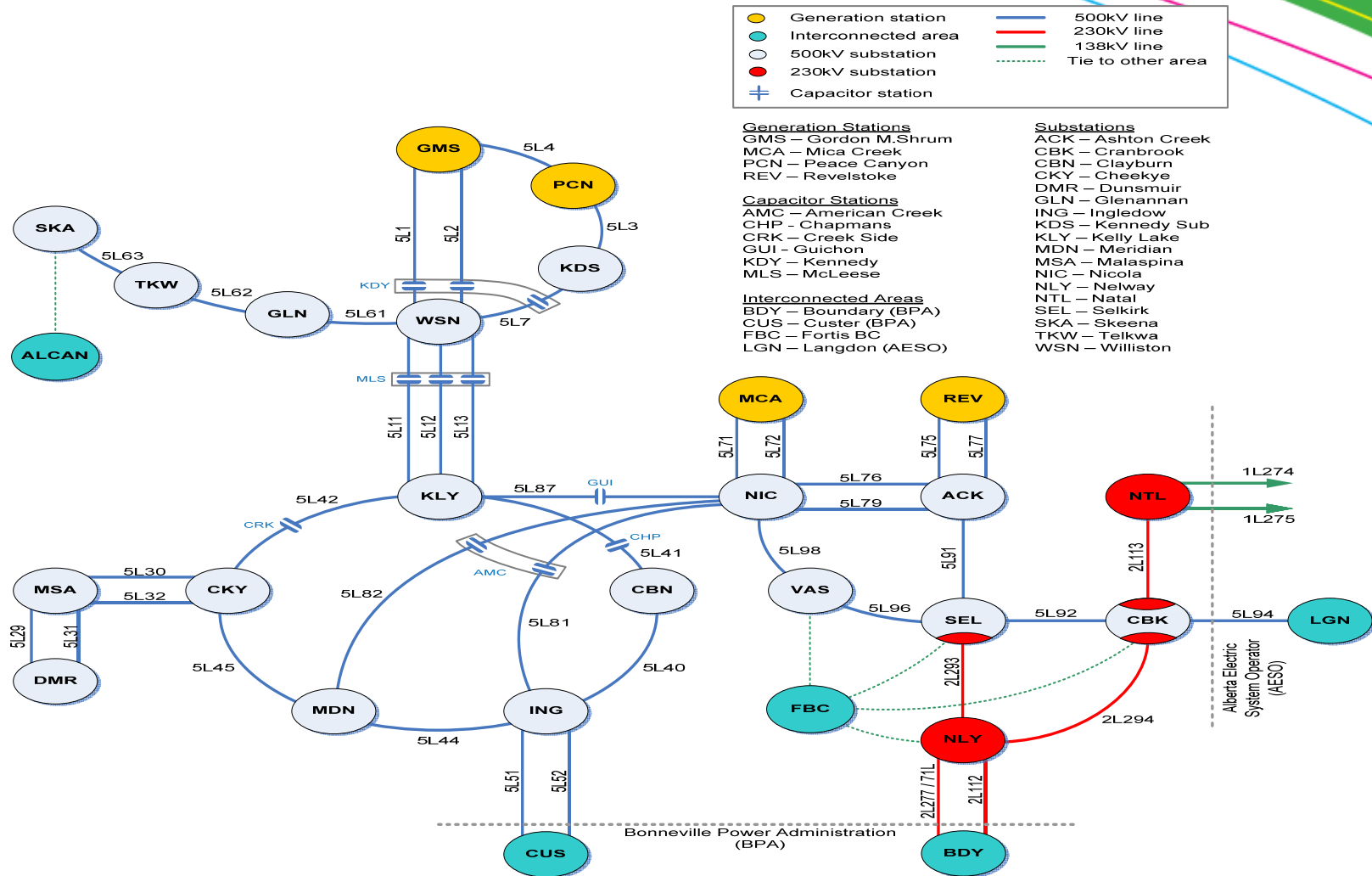
BCTC agrees to follow all Reliability Standards and operate the BC Power System to comply within all reliability rules.



# BC Transmission System



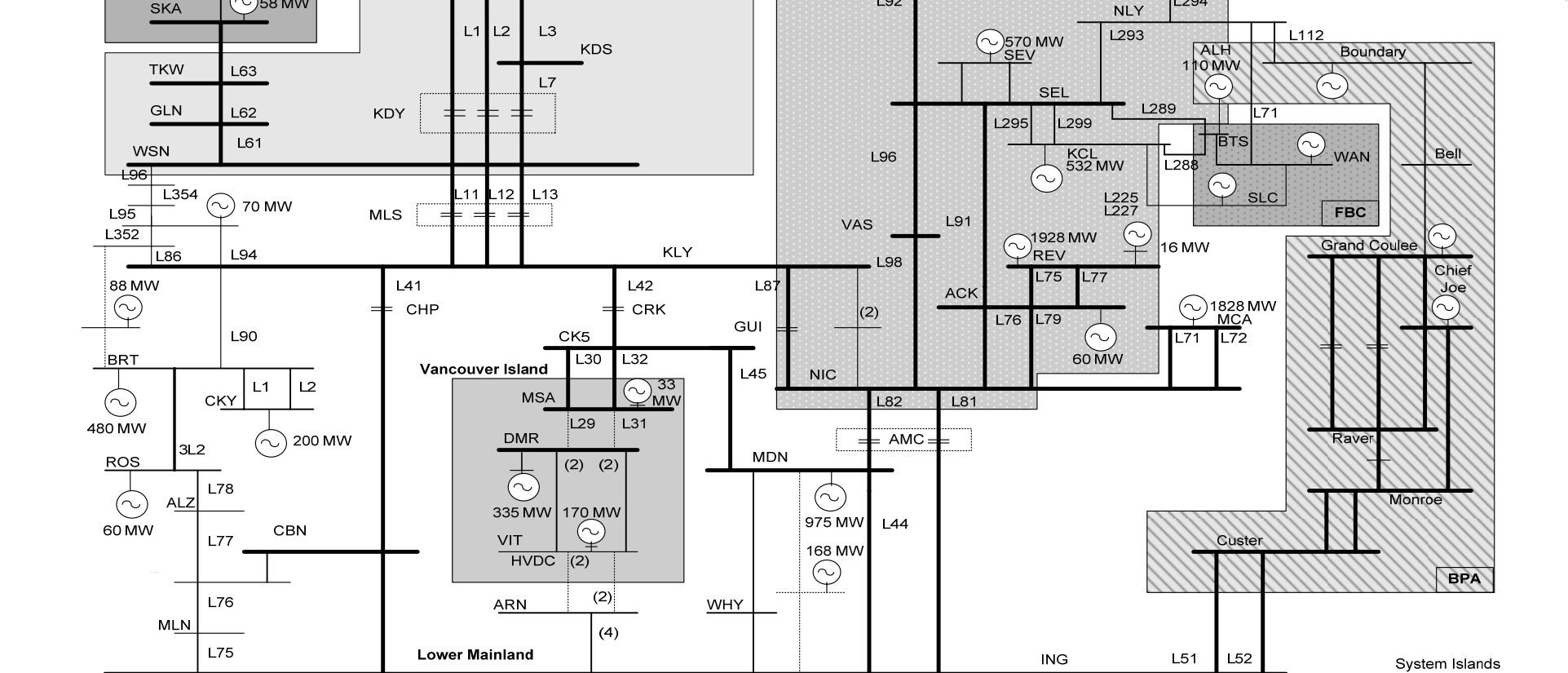
# BC Transmission System



# System Regions

The diagram illustrates the System Regions, which are interconnected power grids. The regions shown are:

- North Coast/Alcan:** Includes KMO (840 MW), KIT, and MIN.
- Peace River:** Includes GMS (2730 MW), MCM (110 MW), L4, and PCN (700 MW).
- Southern Interior:** Includes AESO, LGN, Pocatererra, Coleman, L274, L275, NTL, L113, L94, L103, L294, and CBK (4 MW).





## Balancing, Interchange and Transmission Operator

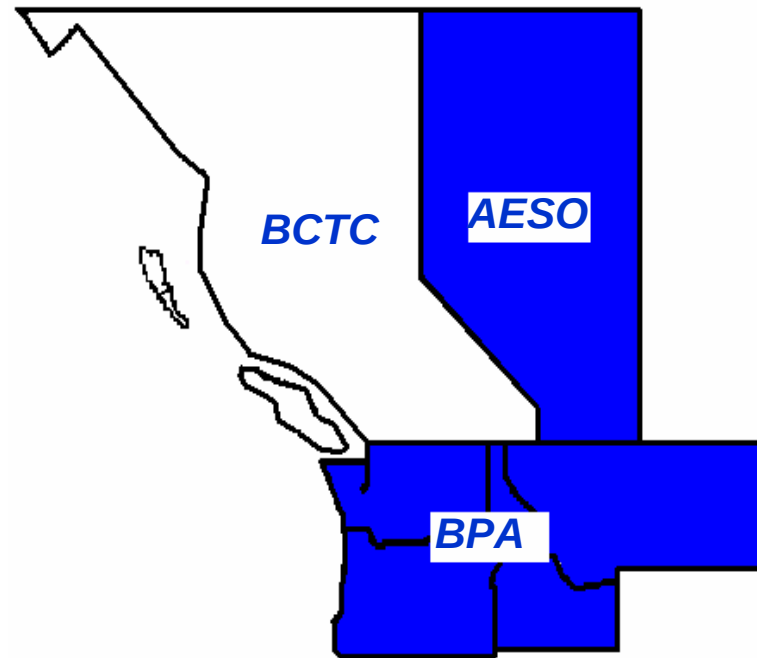
**BCTC is the Balancing, Interchange and Transmission operator for the entire British Columbia electrical grid**

- A Balancing Authority Area is defined as an electrical system bounded by interconnection metering and telemetry. A Balancing Authority controls it's generation to maintain it's interchange schedule while regulating interconnection frequency.

## Interties – Neighboring Balancing Authorities

The BCTC BA interties with the Alberta Electric System Operator (AESO) to the East.

The BCTC BA interties with the Bonneville Power Administration to the south.



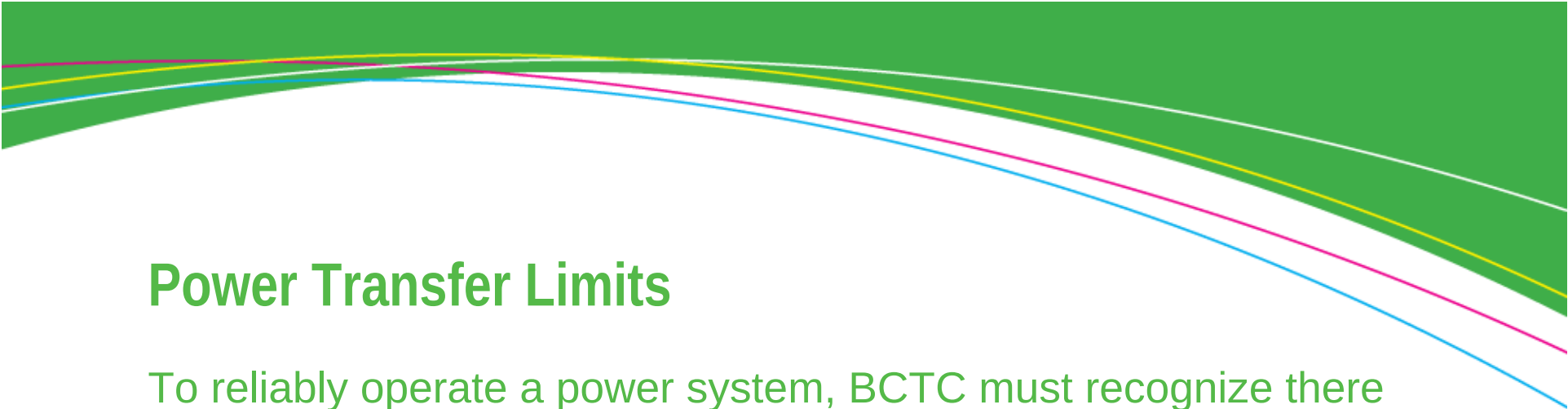


## What is a Transmission Provider?

**BCTC is the Transmission Provider for the BC electrical grid**

- Transmission Provider is defined as the utility that owns, controls or operates facilities used for the transmission of electric energy and provides transmission service under the Tariff

**Fortis BC is the Transmission Provider for the Fortis portion of the BC electrical grid**

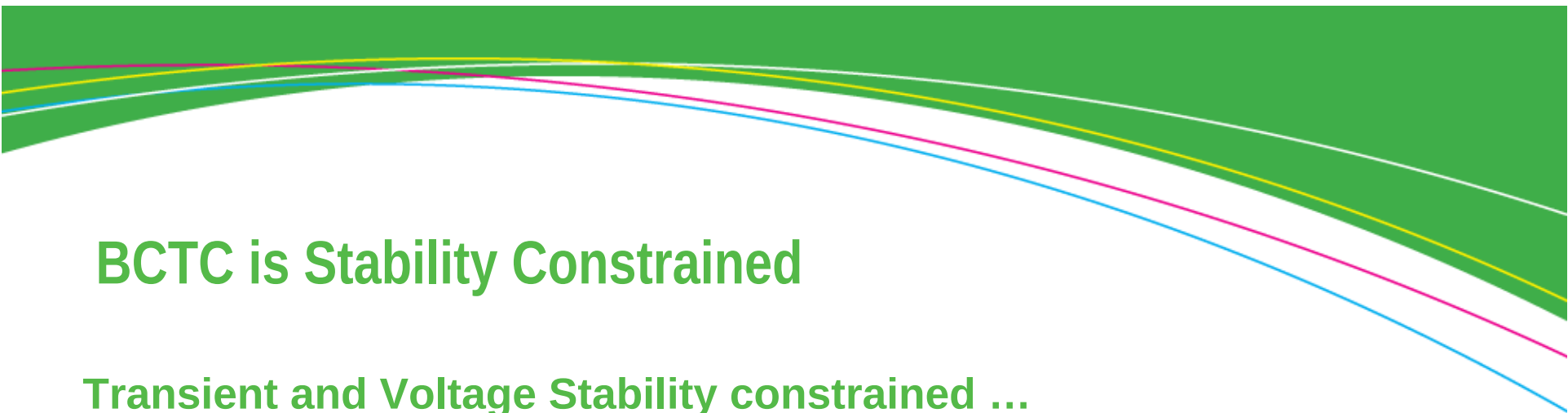


## Power Transfer Limits

To reliably operate a power system, BCTC must recognize there are power flow limits or power transfer limits. The limits are applied to the generation and transmission of active (MW) and reactive power (MVAR) in the system.

The limits are usually divided into three broad categories:

- Thermal – thermal capability of power system equipment
- Stability – imposed to ensure that system torque and power angles remain controllable
- Voltage – imposed to ensure that system voltage levels are not subjected to prolonged deviations



## BCTC is Stability Constrained

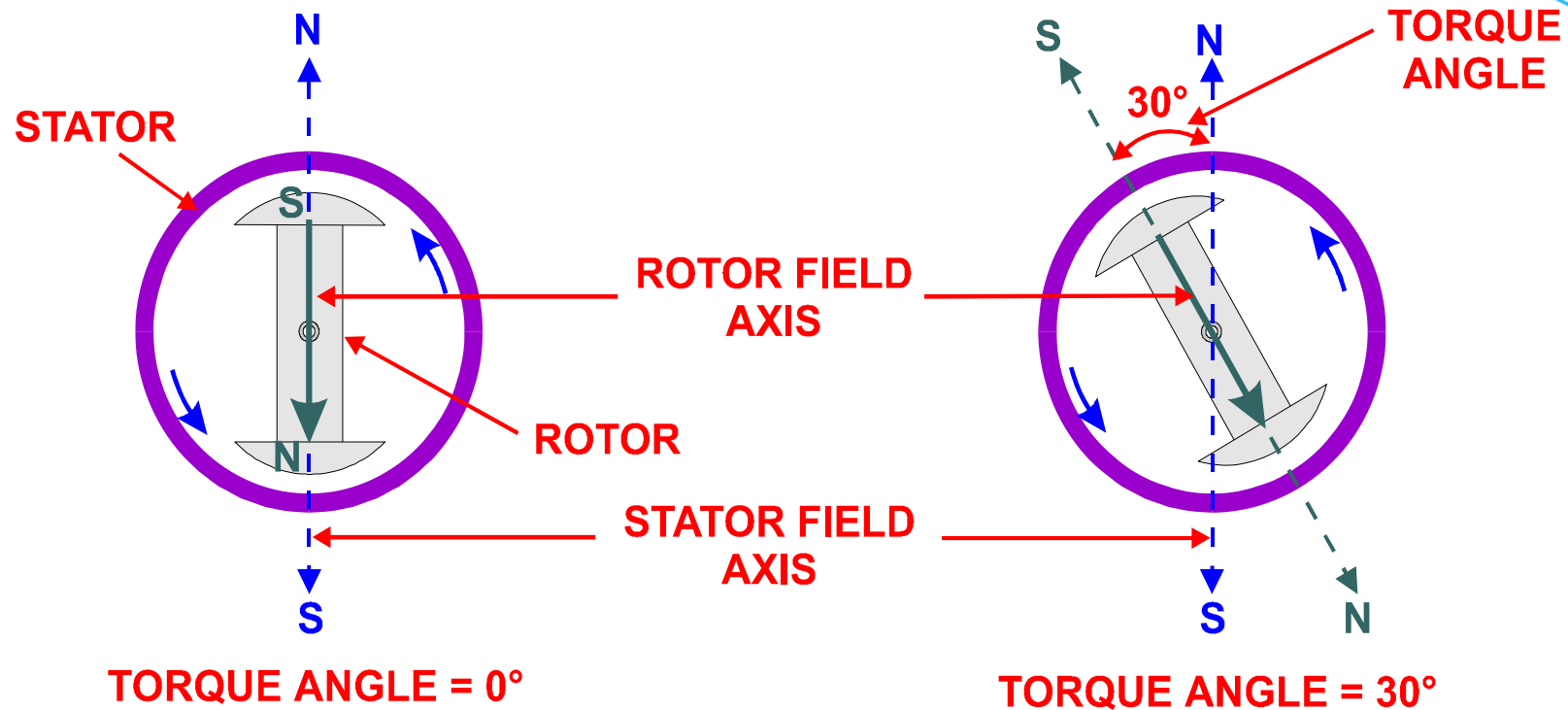
Transient and Voltage Stability constrained ...

What is Transient Stability?

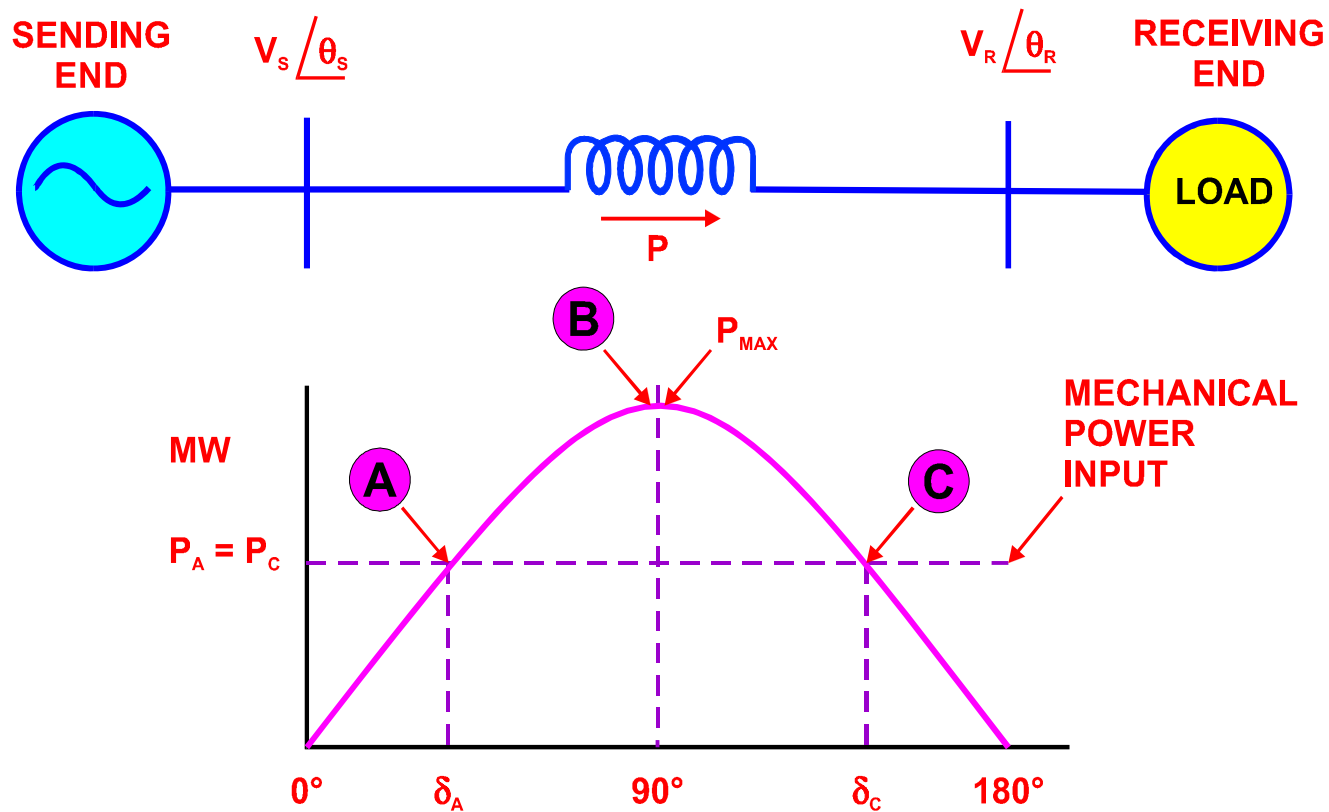
Ability of the power system to remain in synchronism following a major disturbance

- Disturbance can cause damaging stress to generators.
- Changing system conditions may increase or decrease unit susceptibility to instability when a disturbance occurs.
- If the system is already stressed the loss of a transmission element or a generator could cause instability.

# Generator Torque Angle

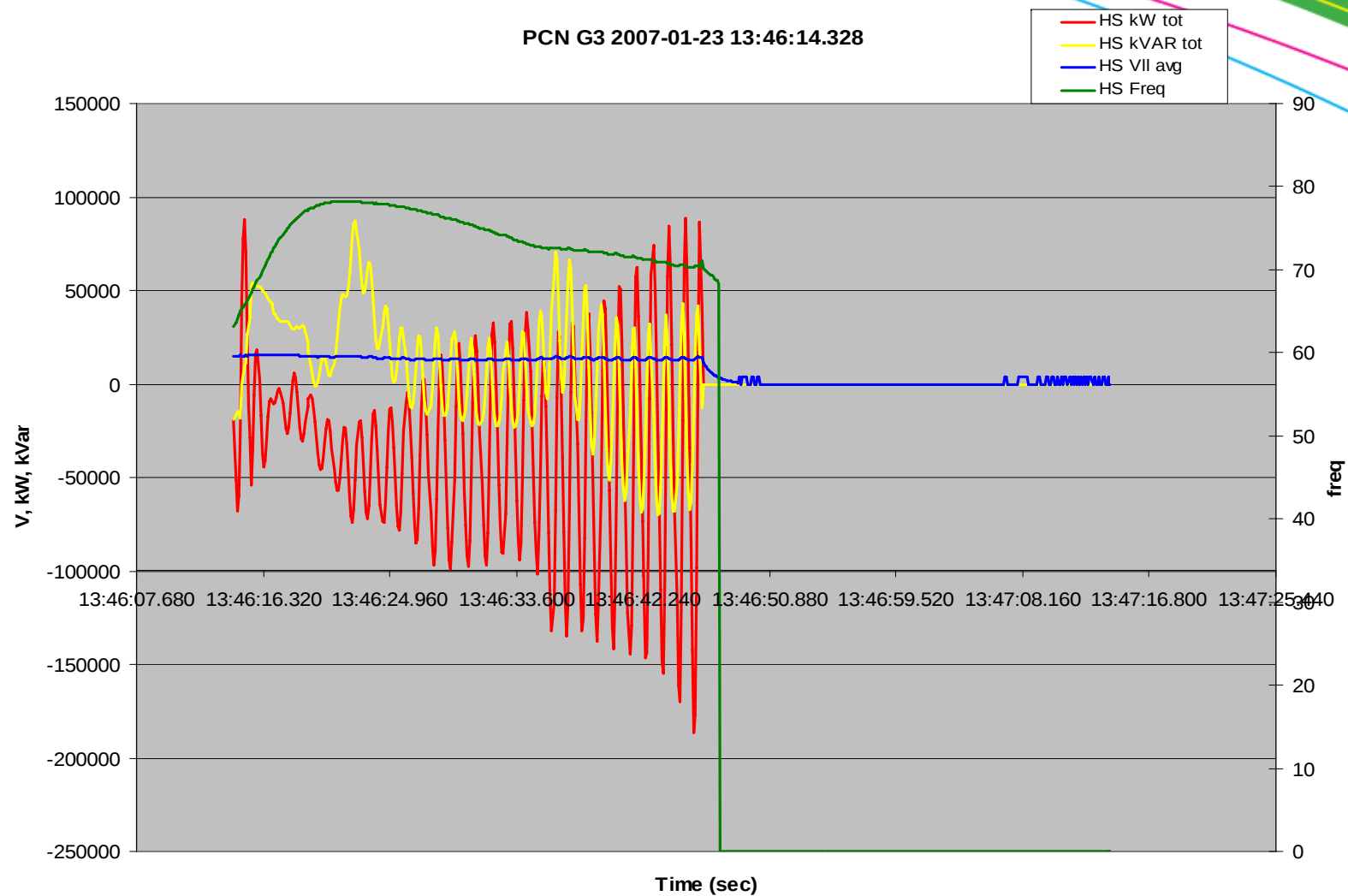


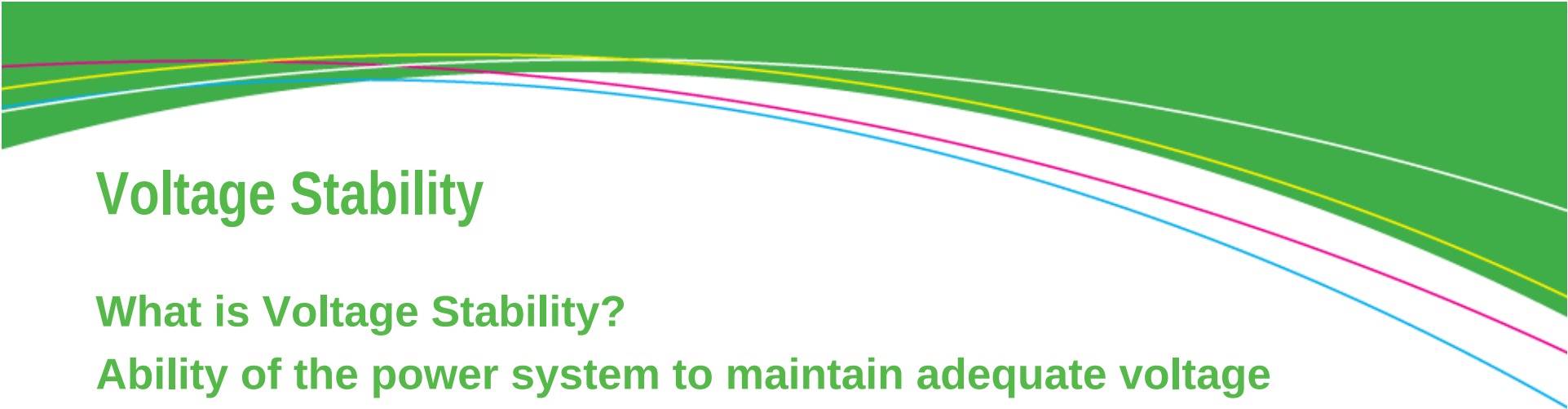
# Power Transfer Limits



# Instability in Generators

PCN G3 2007-01-23 13:46:14.328





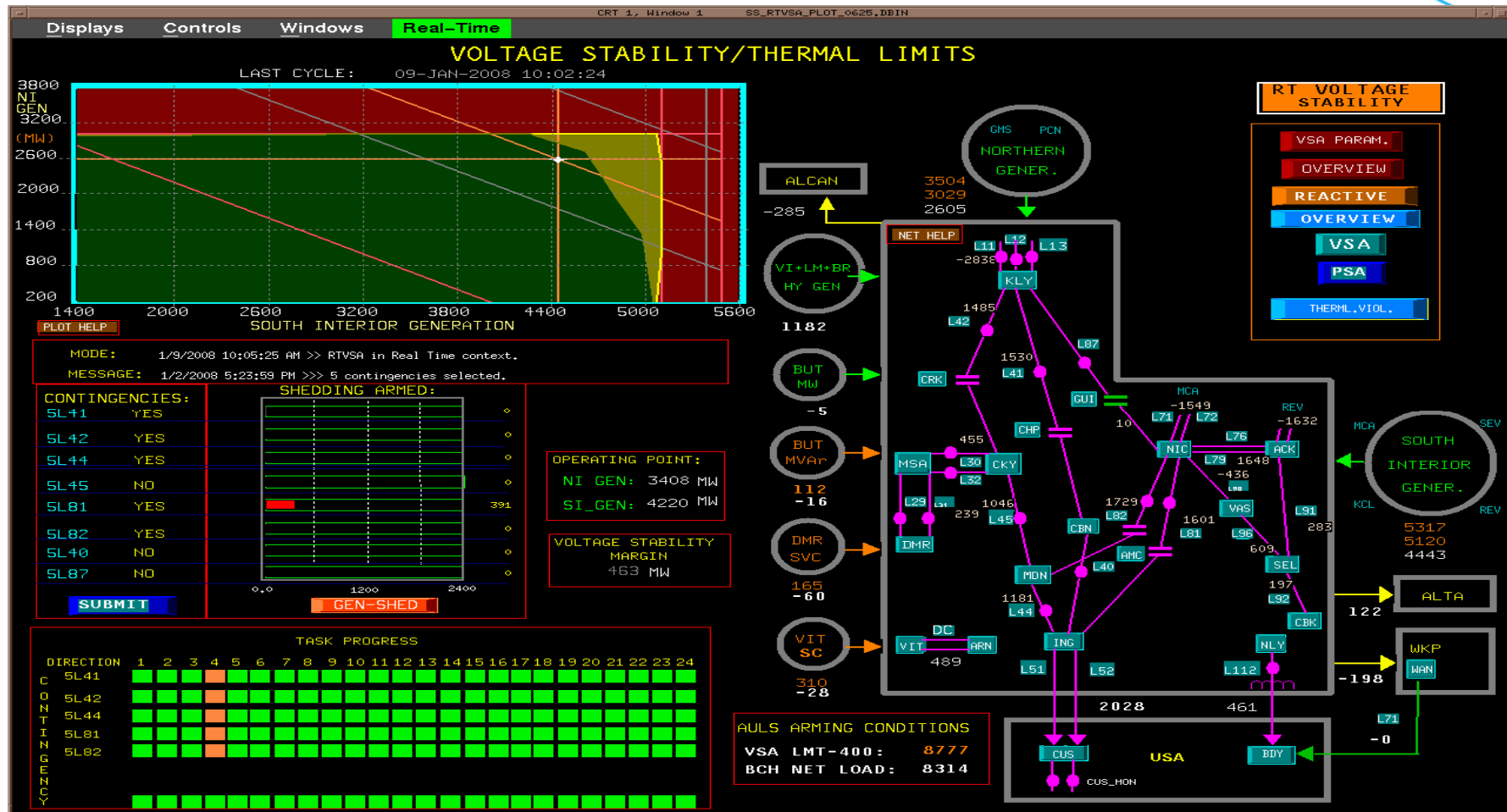
# Voltage Stability

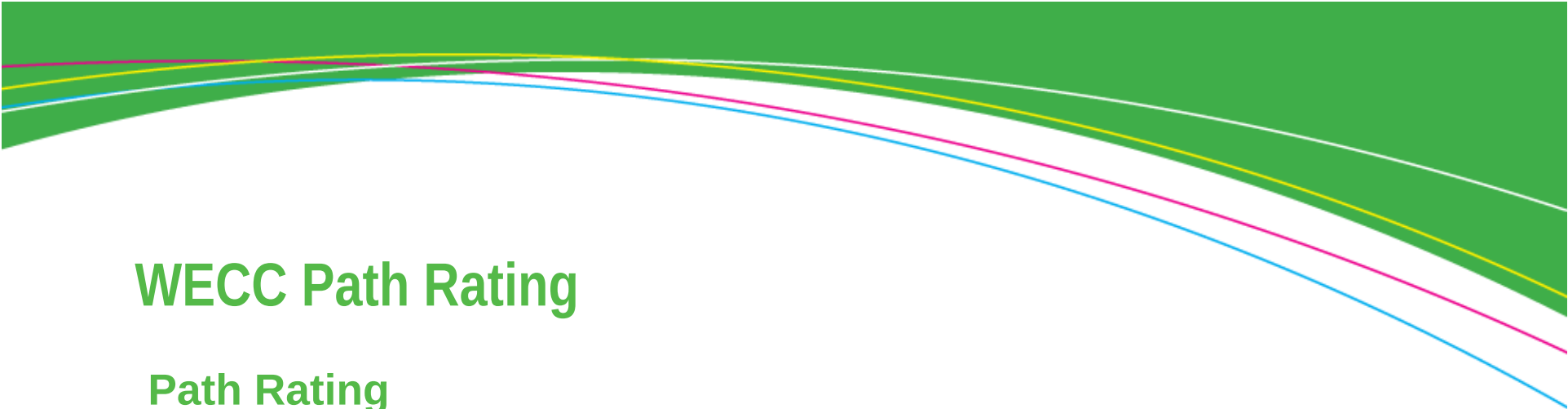
## What is Voltage Stability?

**Ability of the power system to maintain adequate voltage magnitude**

- In a voltage stable system both power and voltage are controllable.
- In a voltage unstable system the Operator has lost control of both power transfer and voltage magnitudes.
- Reactive power required by loads cannot be maintained. Motor loads on the system will stall, the voltage decay becomes rapid and part of the system will collapse. The west coast of the Pacific NW is voltage stability constrained.

# BCTC Real-time Voltage Stability Analysis





# WECC Path Rating

## Path Rating

- The maximum path rating in MW that has been demonstrated to the WECC through study results or actual operation, whichever is greater. This rating is the maximum that can be demonstrated to flow under realistic and optimistic conditions, which can be demonstrated to meet the appropriate reliability criteria.

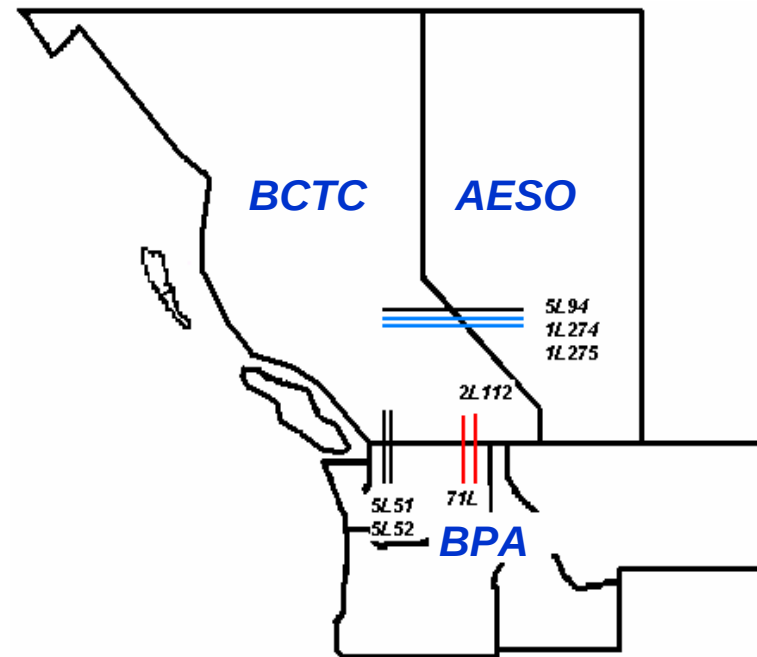
## WECC Path Ratings

### Path Rating for path 1 is:

- 1200 MW BC>AB
- 1000 MW AB>BC

### Path Rating for path 3 is:

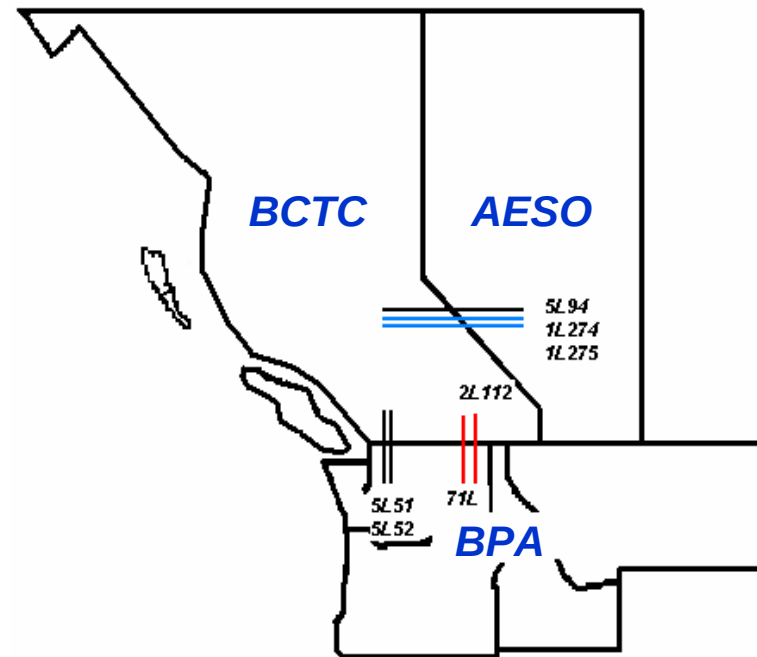
- 3150 MW BC>US
- 2000 MW US>BC



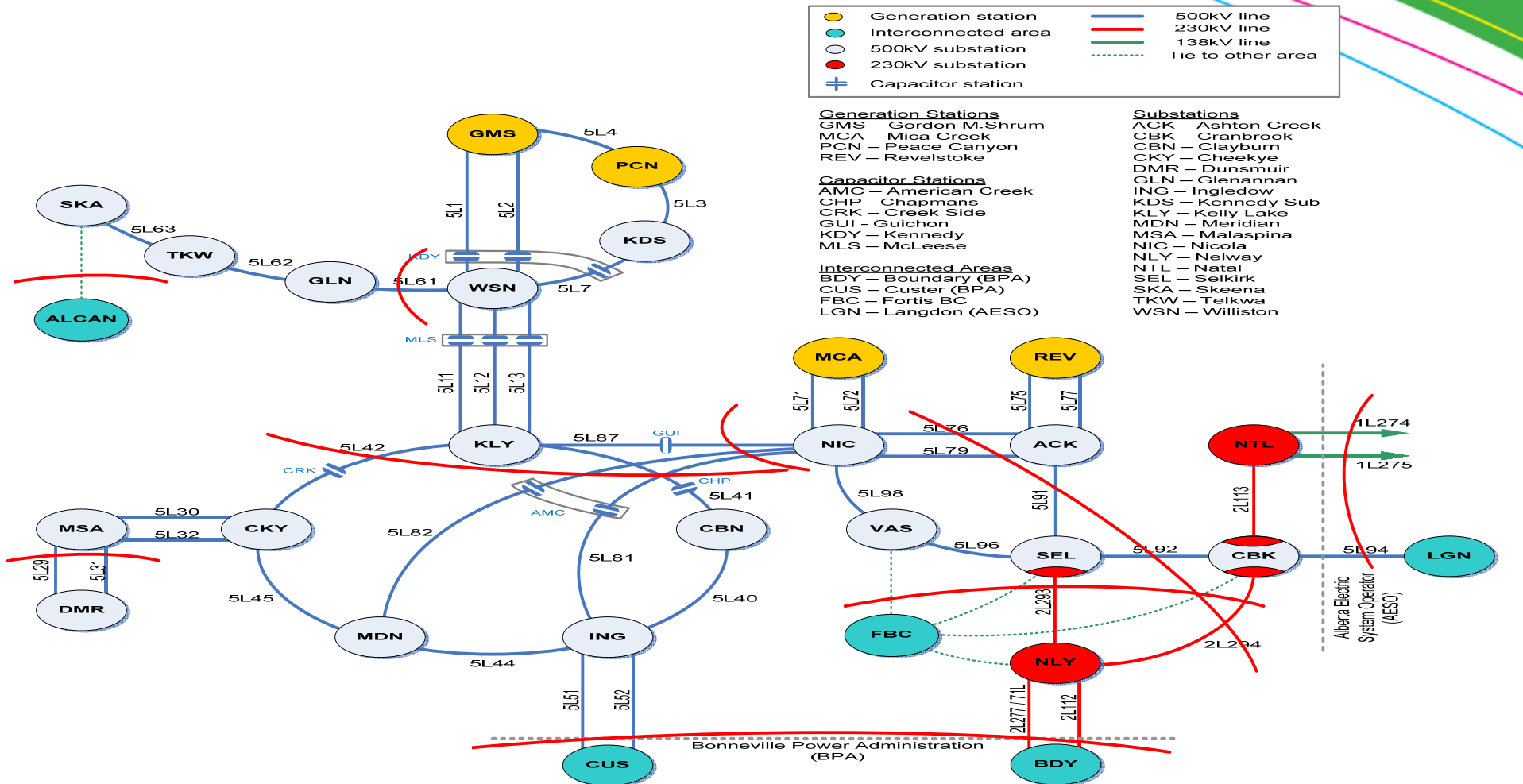
## How Do We Interconnect?

**Path 1 (Alberta intertie)**  
consists of 5L94, 1L274, and  
1L275.

**Path 3 (BPA intertie)** consists  
of 5L51/52, 2L112 and  
FortisBC, Teck-Cominco,  
Columbia Power Corporation  
-2L227 / 71L

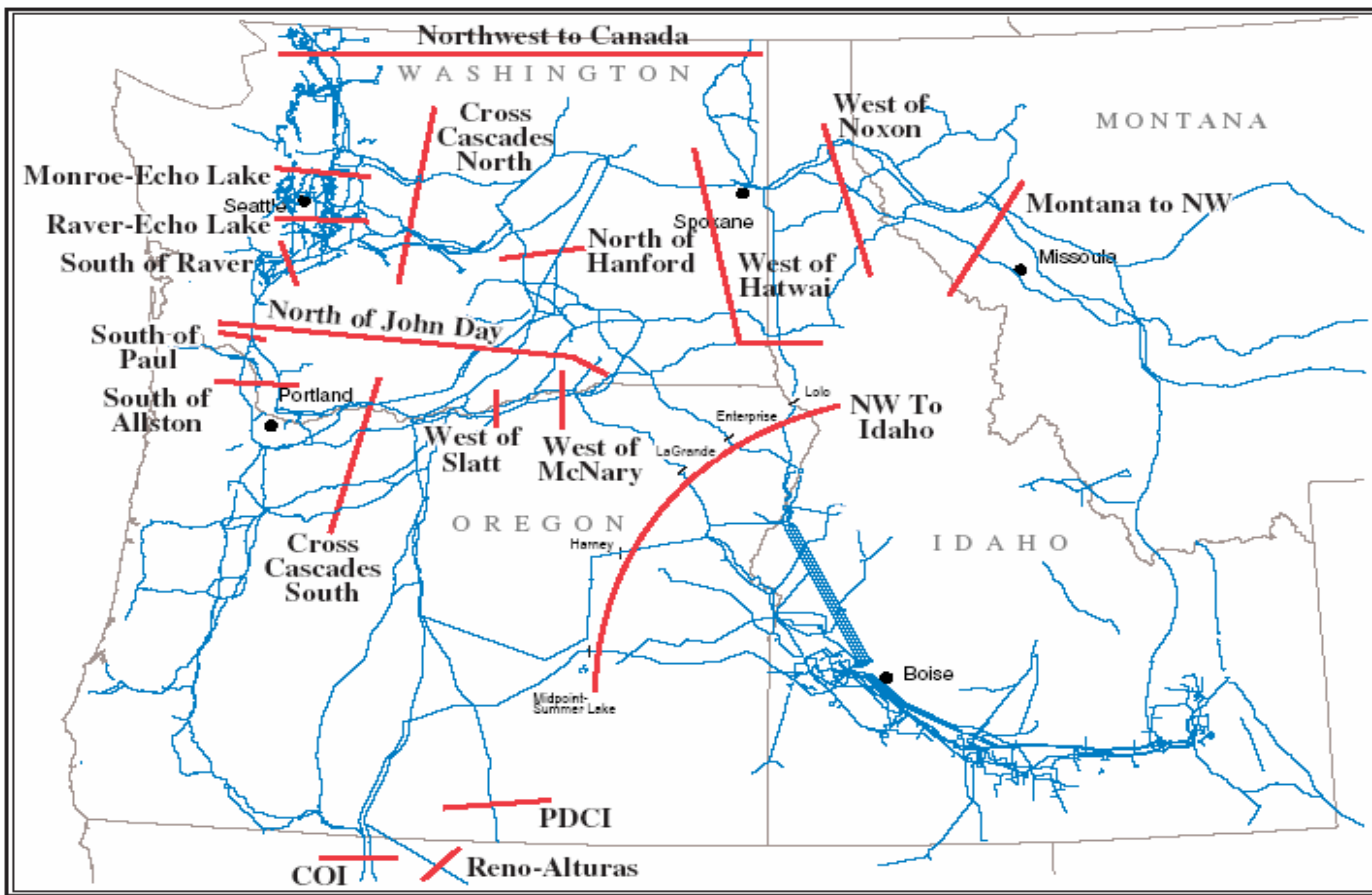


# BCTC Constrained paths



## NW Constrained paths

### NW Constrained Paths





## Transfer Capability (NERC)

The measure of the ability of interconnected electric systems to move or transfer power *in a reliable manner* from one area to another over all transmission lines (or paths) between those areas under specified system conditions.

- The units of transfer capability are in terms of electric power, generally expressed in megawatts (MW).
- The transfer capability from “Area A” to “Area B” is *not* generally equal to the transfer capability from “Area B” to “Area A.”



## Operating Transfer Capability (OTC)

WECC defines (through a NERC Standard) what OTC is in the west and lists the Paths this applies to.

Actual power flow and net scheduled power flow over an interconnection or transfer path shall be maintained within Operating Transfer Capability Limits (“OTC”). The OTC is the maximum amount of actual power that can be transferred over direct or parallel transmission elements comprising:

- An interconnection from one Transmission Operator area to another Transmission Operator area; or
- A transfer path within a Transmission Operator area.

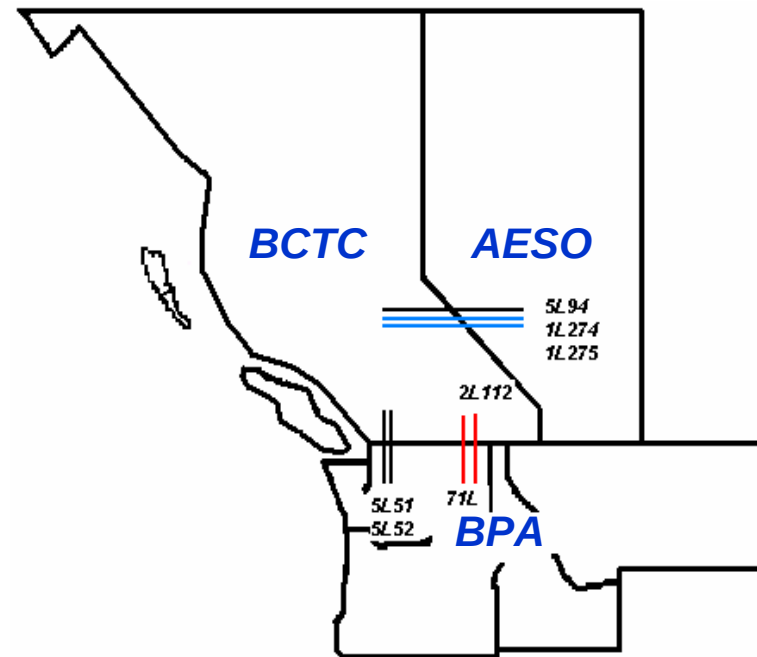
## WECC Approved OTC's

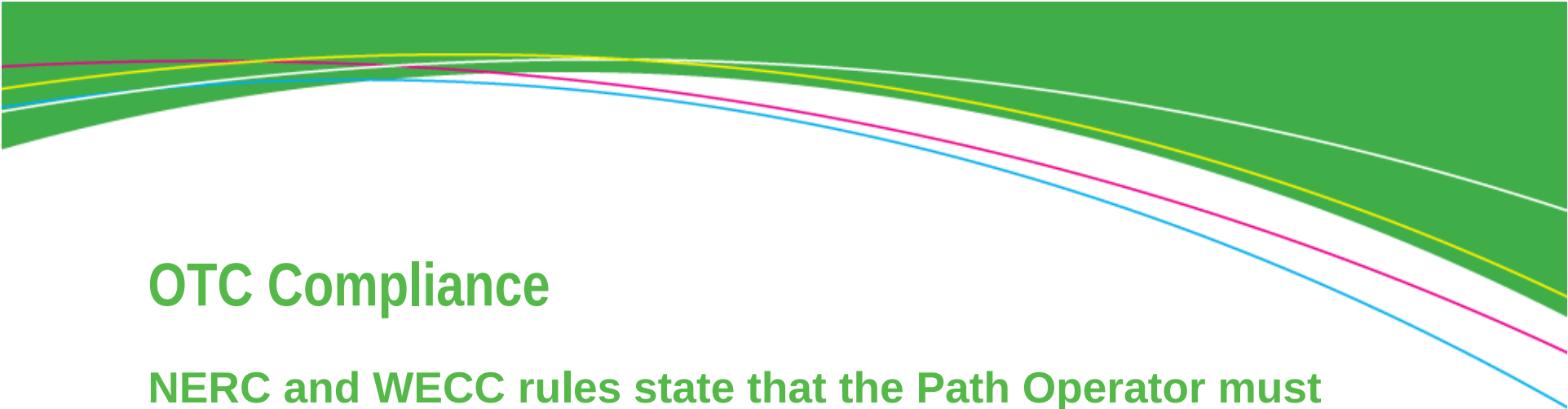
Maximum approved OTC rating  
for path 1 is:

- 1160 MW BC>AB
- 1000 MW AB>BC

Maximum approved OTC rating  
for path 3 is:

- 3150 MW BC>US
- 2000 MW US>BC





## OTC Compliance

**NERC and WECC rules state that the Path Operator must ensure that actual transfers stay below the OTC limit**

- AESO is designated as the Path Operator for Path 1
- BCTC is designated as the Path Operator for Path 3

**Whenever actual transfer exceeds OTC the path operator must reduce the actual transfer. WECC RMS requires that OTC must not be exceeded for more than**

- 20 minutes for a stability constrained path (all BCTC paths)
- 30 minutes for a thermally constrained path

# Ensuring OTC Compliance

To ensure compliance with OTC criteria, BCTC establishes TTCs that never exceed the OTC.

Displays Controls Windows **Real-Time** CRT 1, Window 1 SCC\_AGC\_OTC AGC\_RMS,DBIN

WECC RELIABILITY MANAGEMENT SYSTEM  
OPERATING TRANSFER CAPABILITY (OTC) MONITORING ON INTERTIES

PAGE 1 OF 2

**AGC OTC CONTROL** **ON**  
MAX FREQUENCY DEVIATION 0.50 HZ  
MAX ACE VALUE 275 MW

| PATH NAME                               | TYPE      | MANUAL | VSA                         | TSR                          | TSS                              | OTC  | SCHED TRANSFER | ACTUAL TRANSFER |
|-----------------------------------------|-----------|--------|-----------------------------|------------------------------|----------------------------------|------|----------------|-----------------|
|                                         |           |        | USE VSA LIMITS<br><b>NO</b> | USE TSR LIMITS<br><b>YES</b> |                                  |      |                |                 |
| BC-US PATH (5L51, 5L52, 2L112 AND 71L): |           |        |                             |                              | BCH<br>USE TSS LIMITS <b>YES</b> |      | - 51           | 35              |
| US TO BC OTC<br>(TRM = 50)              | STABILITY | 2000   | 2000                        | 2000                         | 2000                             | 2000 |                |                 |
|                                         | THERMAL   | 2000   | -----                       | -----                        |                                  | 2000 |                |                 |
| BC TO US OTC<br>(TRM = 50)              | STABILITY | 3150   | 3150                        | 2800                         | 2800                             | 2800 |                |                 |
|                                         | THERMAL   | 3150   | -----                       | -----                        |                                  | 3150 |                |                 |
| BC-ALBERTA PATH (5L94 AND NTL TIE):     |           |        |                             |                              | BCH<br>USE TSS LIMITS <b>YES</b> |      | 80             | 92              |
| ALBERTA TO BC OTC<br>(TRM = 65)         | STABILITY | 800    |                             | 700                          |                                  | 365  |                |                 |
|                                         | THERMAL   | 800    |                             | -----                        |                                  | 800  |                |                 |
| BC TO ALBERTA OTC<br>(TRM = 90)         | STABILITY | 850    |                             | 1160                         |                                  | 640  |                |                 |
|                                         | THERMAL   | 850    |                             | -----                        |                                  | 850  |                |                 |

TO IGNORE A 'THERMAL' LIMIT ENTER -1 IN THE MANUAL FIELD FOR THE LIMIT

Manual Entry

Next hr BCTC TTC AB TO BC 800

Next hr BCTC TTC BC TO AB 850

PLANT CNTL UNIT CNTL AGC INDEX OVERVIEW OVERVIEW SHEDDING ENA MENU

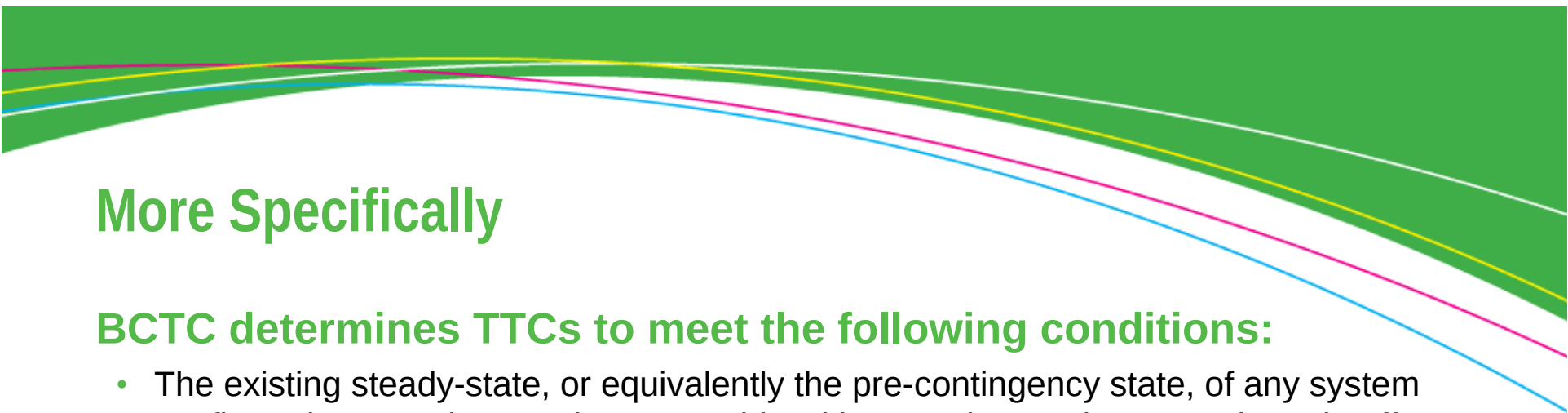


## Total Transfer Capability

**BCTC operates the system and computes TTC in accordance with the methodologies and criteria specified by NERC and WECC**

### **BCTCs definition of Total Transfer Capability (TTC):**

- The amount of electric power that can be moved or transferred reliably from one area to another area of the interconnected transmission systems by way of all transmission lines (or paths) between those areas under specified system conditions.

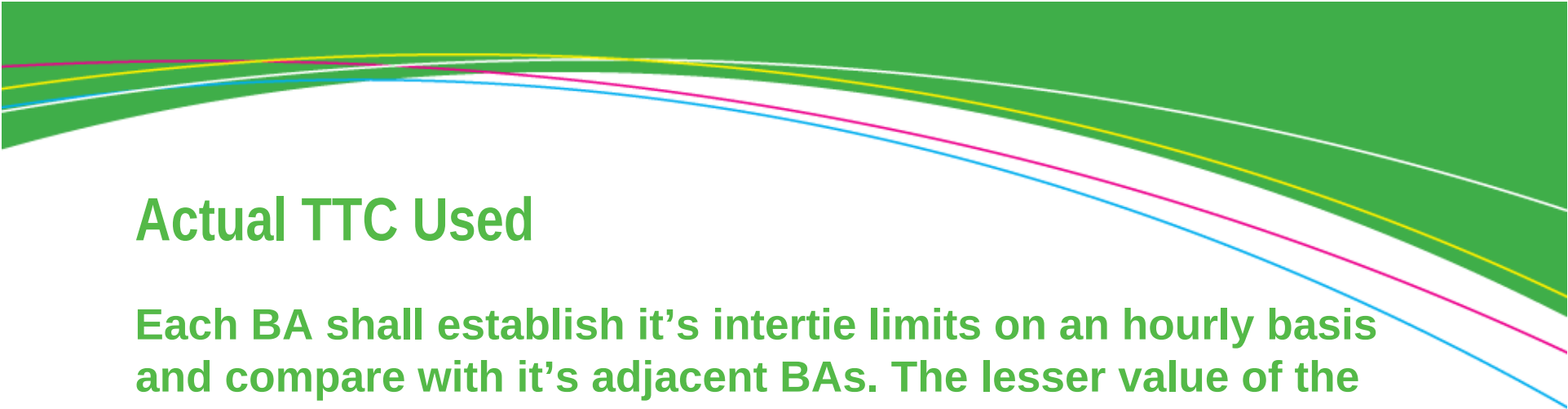


## More Specifically

### **BCTC determines TTCs to meet the following conditions:**

- The existing steady-state, or equivalently the pre-contingency state, of any system configuration must be steady state stable with normal operating procedures in effect. In addition, all system loading and voltages must be within normal limits.
- The network must be transiently stable after a single contingency event.
- The network must be steady state stable following a single contingency, prior to the time frame where control room operators are able to implement any system adjustments (typically 20 - 30 minutes).

**Transient and voltage stability as well as thermal limit constraints limit the capability of the system; therefore, TTC is the minimum of these constraints**



## Actual TTC Used

Each BA shall establish its intertie limits on an hourly basis and compare with its adjacent BAs. The lesser value of the two is used as the TTC for that hour.

This hourly TTC value sets the limit for the maximum amount of energy that can flow across a path in a given direction, thus it is used as the starting point for selling transmission services.

Future hours are always set and confirmed or adjusted to meet the above criteria.

## TTC Coordination with AESO

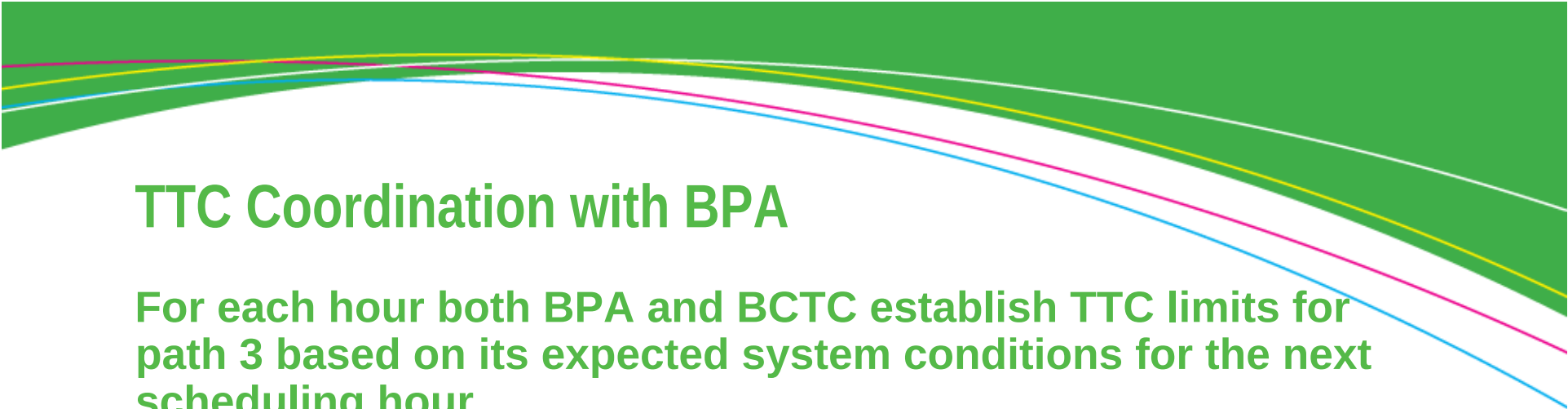
For each hour both AESO and BCTC establish TTC limits for path 1 based on its expected system conditions for the next scheduling hour

The TTC limits for various system configurations for path 1 from a BC perspective are listed in System Operating Order 7T-17, posted on the BCTC website at

[http://www.bctc.com/the\\_transmission\\_system/system\\_operating\\_orders/](http://www.bctc.com/the_transmission_system/system_operating_orders/)

- What are the limits for 5L91 oos?

The OTC limit is set equal to the TTC for compliance monitoring. (AESO provides real-time analysis while BCTC uses TTC calculator.)



## TTC Coordination with BPA

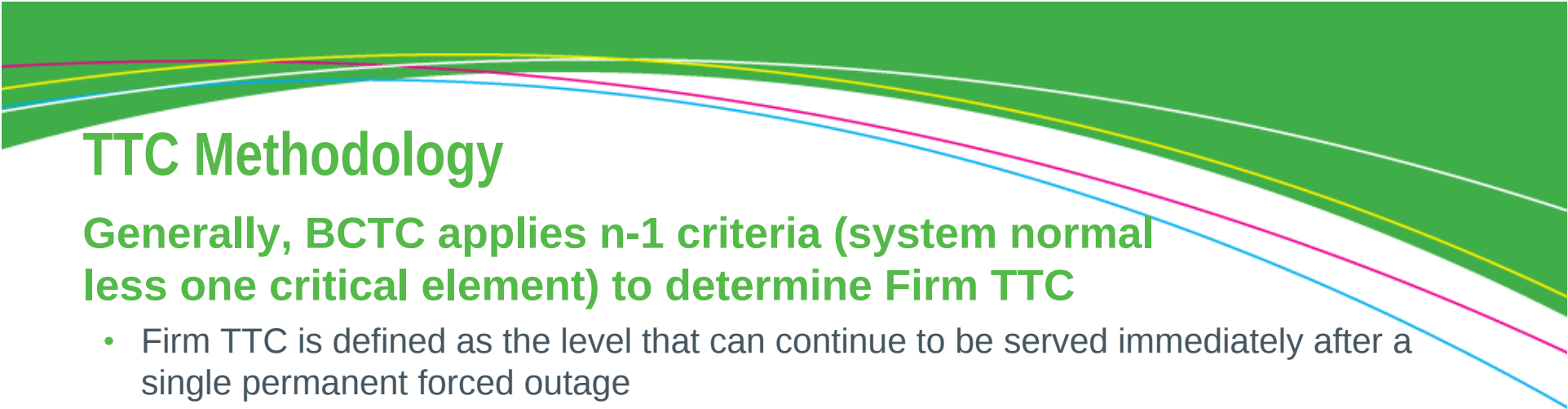
For each hour both BPA and BCTC establish TTC limits for path 3 based on its expected system conditions for the next scheduling hour

The TTC limits for various system configurations for path 3 from a BC perspective are listed in System Operating Order 7T-18, posted on the BCTC website at

[http://www.bctc.com/the\\_transmission\\_system/system\\_operating\\_orders/](http://www.bctc.com/the_transmission_system/system_operating_orders/)

- What are the limits for 5L41 oos?

The OTC limit is set equal to the TTC for compliance monitoring. (BPA uses nomograms while BCTC uses TTC calculator.)



## TTC Methodology

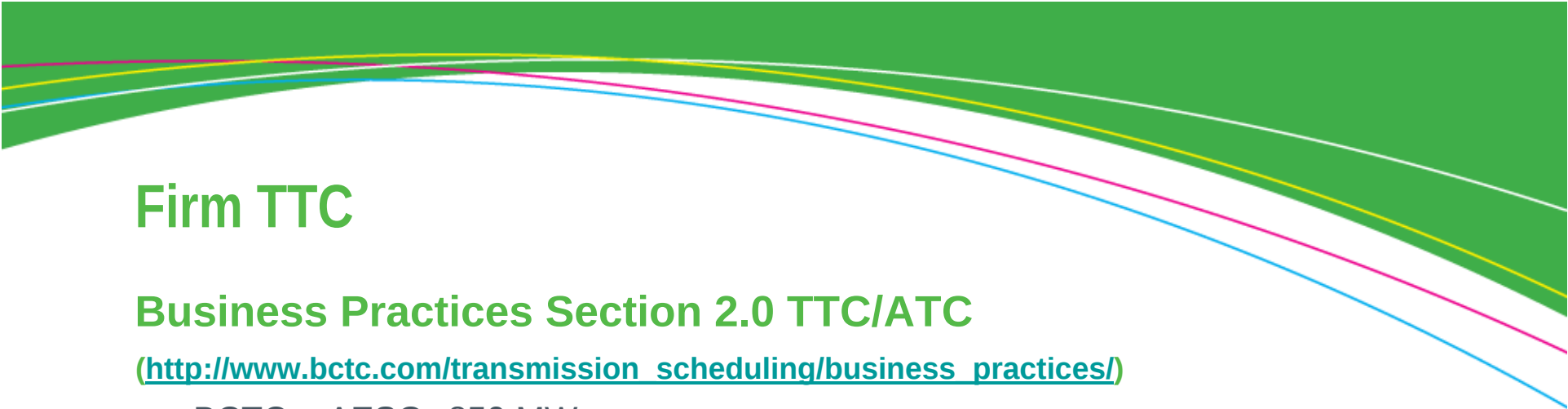
Generally, BCTC applies n-1 criteria (system normal less one critical element) to determine Firm TTC

- Firm TTC is defined as the level that can continue to be served immediately after a single permanent forced outage

This requirement applies to the system with all facilities in service during all transfer conditions

In addition, the system with one element out of service during lighter transfers should be able to accommodate Firm TTC (RAS permitted)

Nominal Firm TTCs can be found in the Business Practices for each intertie



## Firm TTC

### Business Practices Section 2.0 TTC/ATC

[\(http://www.bctc.com/transmission\\_scheduling/business\\_practices/\)](http://www.bctc.com/transmission_scheduling/business_practices/)

- BCTC > AESO: 850 MW
- AESO > BCTC: 450 MW
- BCTC > BPAT: 1930 MW
- LM > BPAT: 1930 MW
- BPAT > BCTC: 1930 MW

Other constraints may reduce transfer limits



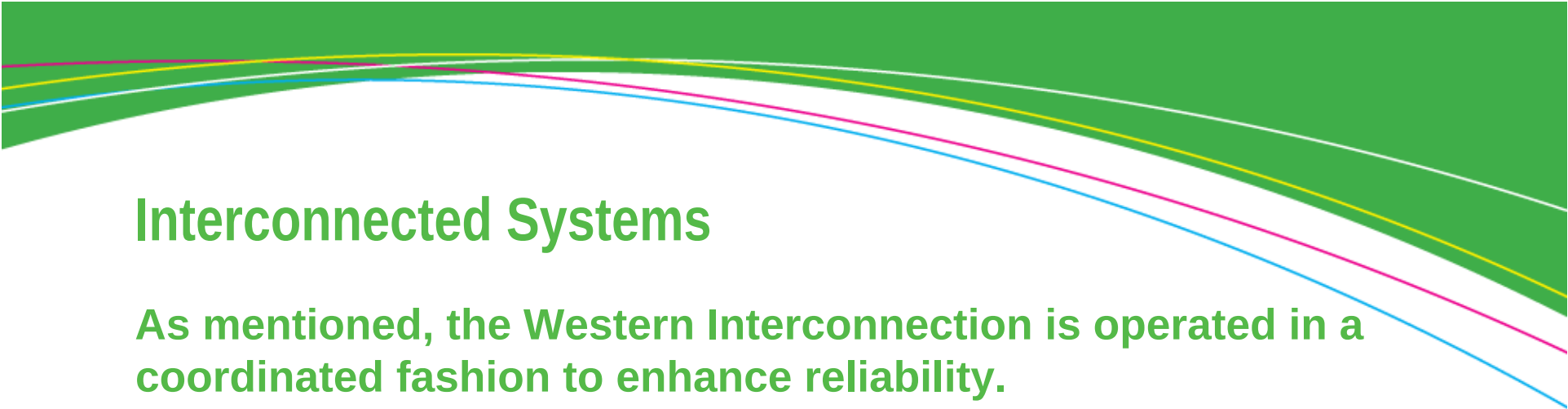
## Operations and Outages

### TTC may be different from “expected” due to:

- Operational issues - check bulletins and System Operating Orders
- Outages - check Forced and Current Outages Webpage and Annual Maintenance Plan ([http://www.bctc.com/the\\_transmission\\_system/system\\_outages/](http://www.bctc.com/the_transmission_system/system_outages/))

### Check other Balancing Authority issues

- Forced and current Transmission outages
- Planned Transmission outages (approved with 2 week window)
- Planned Transmission outages with annual maintenance plan



## Interconnected Systems

As mentioned, the Western Interconnection is operated in a coordinated fashion to enhance reliability.

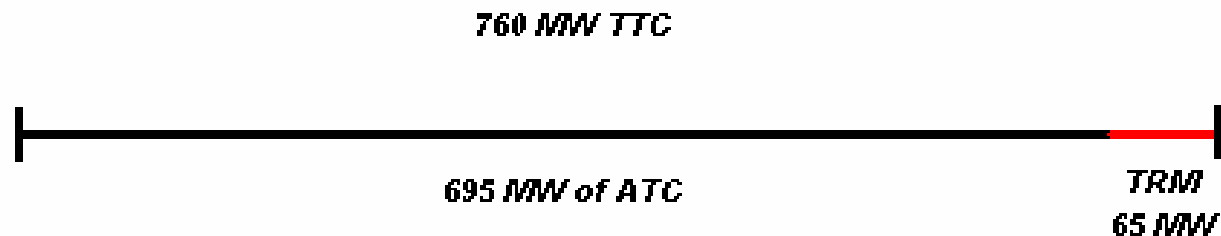
This type of coordinated operation can cause situations to arise where the actual energy flowing across a path exceeds the scheduled amount.

If operating near the OTC limit this type of situation can “push” the Balancing Authority into an OTC violation.

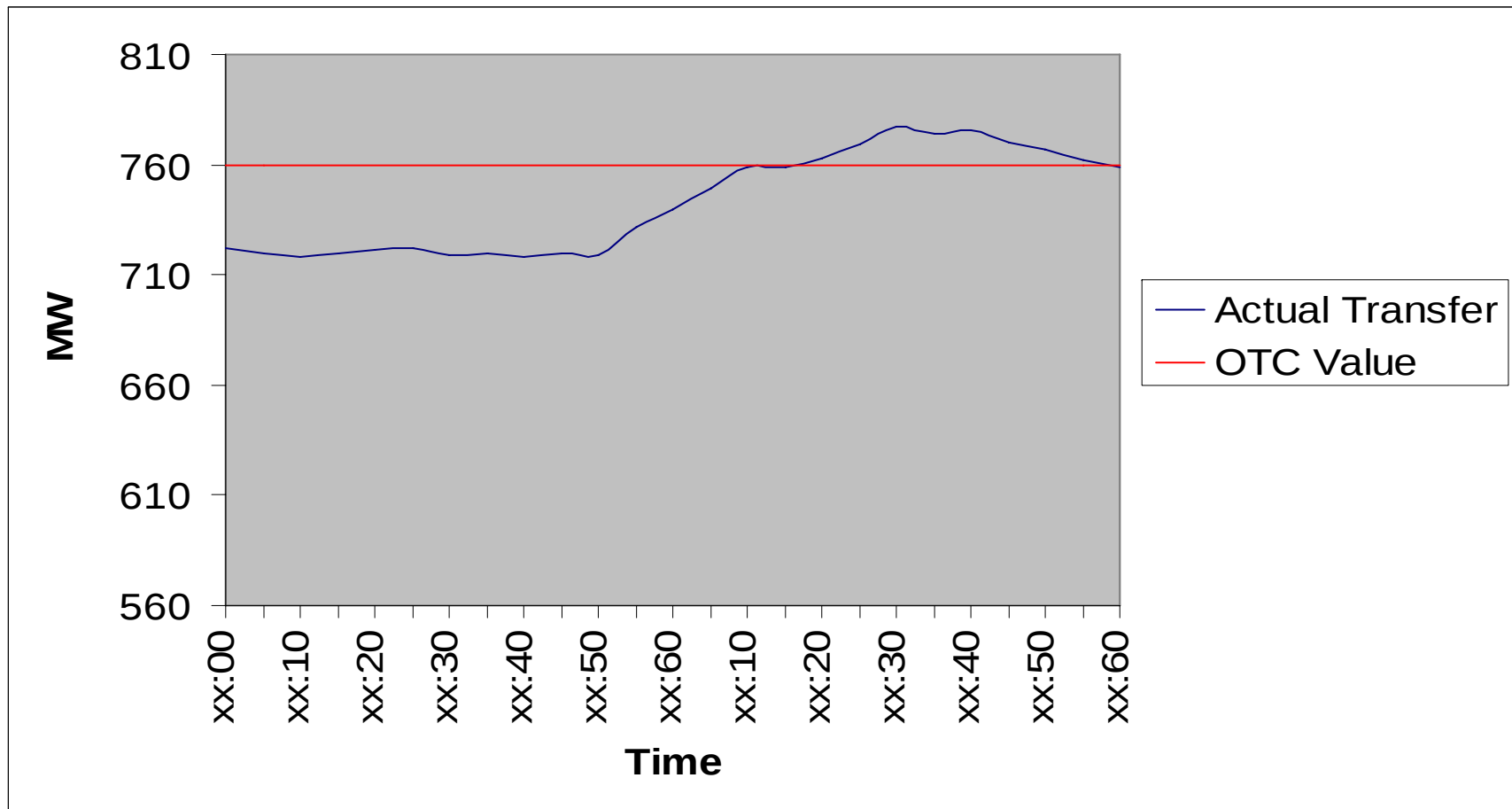
## Transmission Reliability Margin (TRM)

TRM is used to minimize these types of OTC violations by “setting aside” a reasonable amount of capability to handle common operating situations

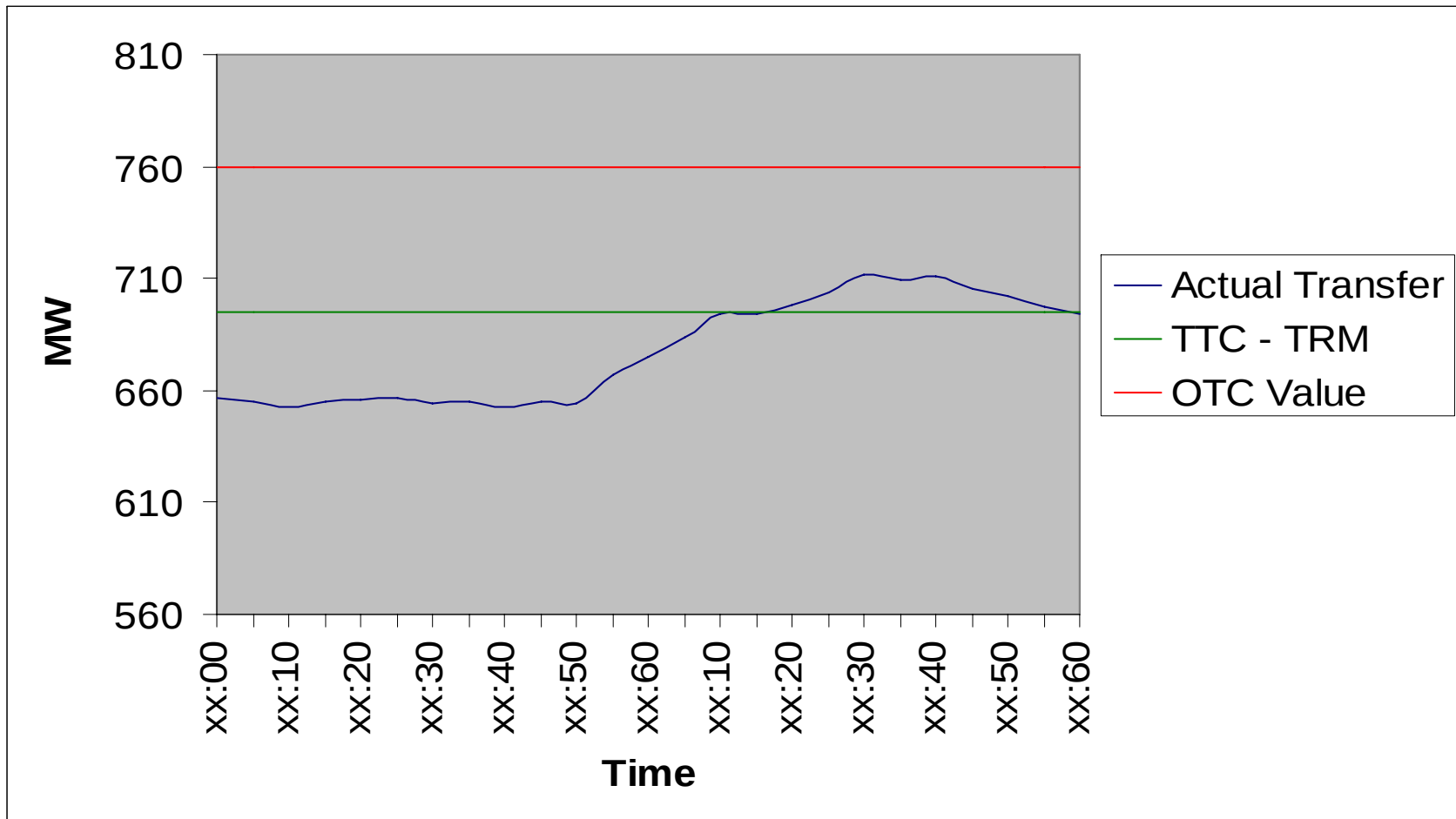
- TRM is defined as the amount of TTC necessary to ensure the interconnected transmission network is secure under a possible range of uncertainties in system conditions

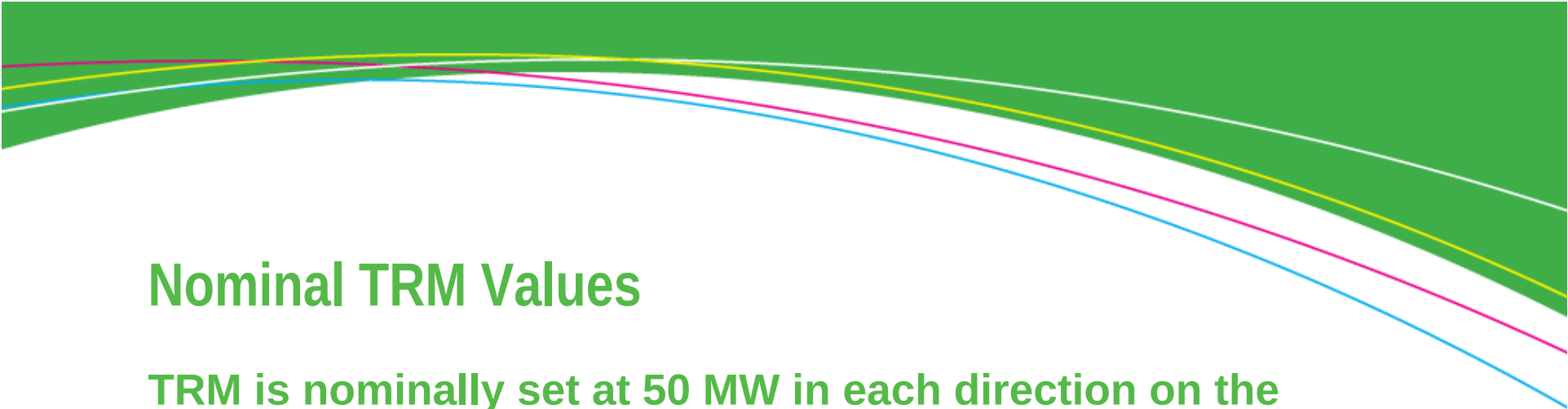


## Interconnected Operation no TRM



## Interconnected Operation with TRM





## Nominal TRM Values

TRM is nominally set at 50 MW in each direction on the intertie with BPA

TRM is nominally set at 65 MW in each direction on the intertie with AESO

# Disturbances





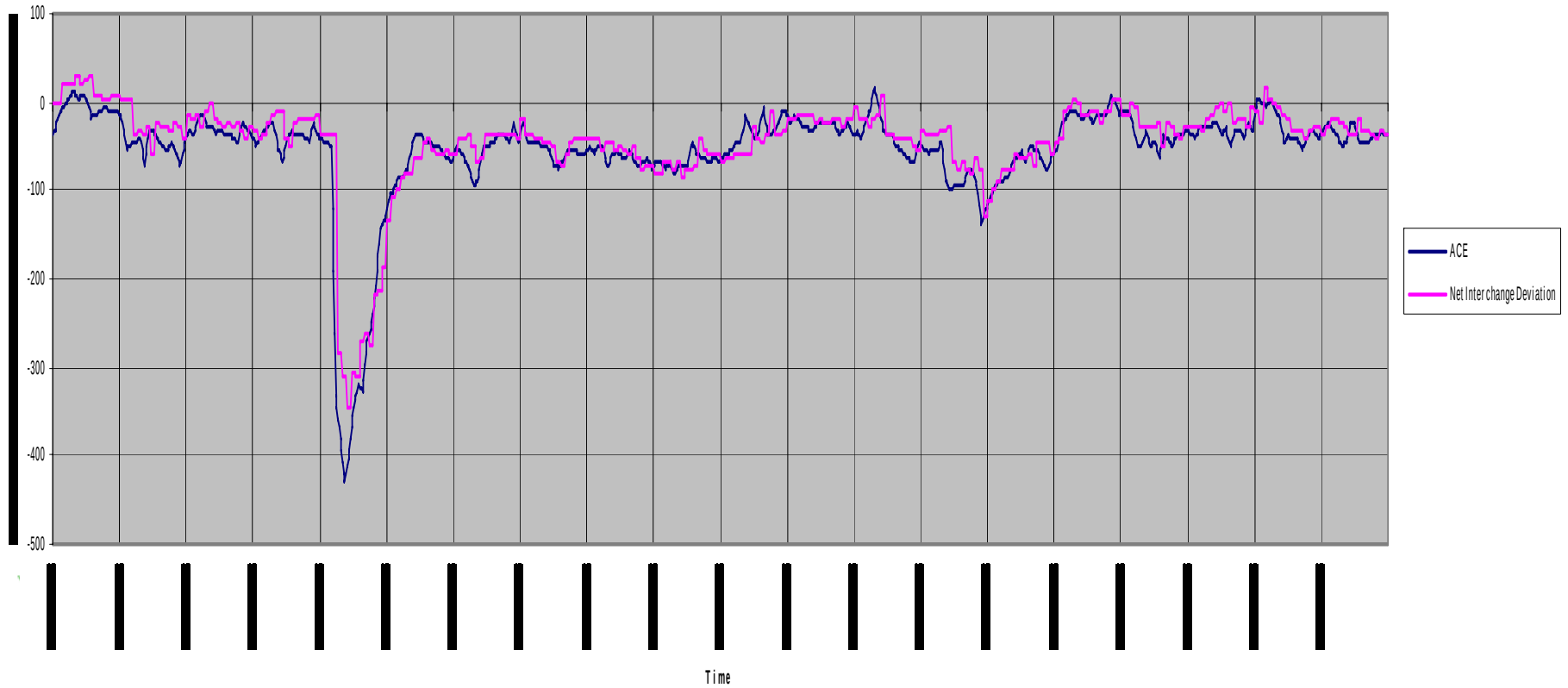
## Disturbance Criteria

**ACE** - The instantaneous difference between a Balancing Authority's net actual and scheduled interchange. Measures the ability to balance the generation requirements to load. ACE is kept as close to zero as possible.

**DCS** – Disturbance Criteria Standard. WECC requires a Balancing Authority return its ACE to pre-disturbance value or zero within 15 minutes following a disturbance.

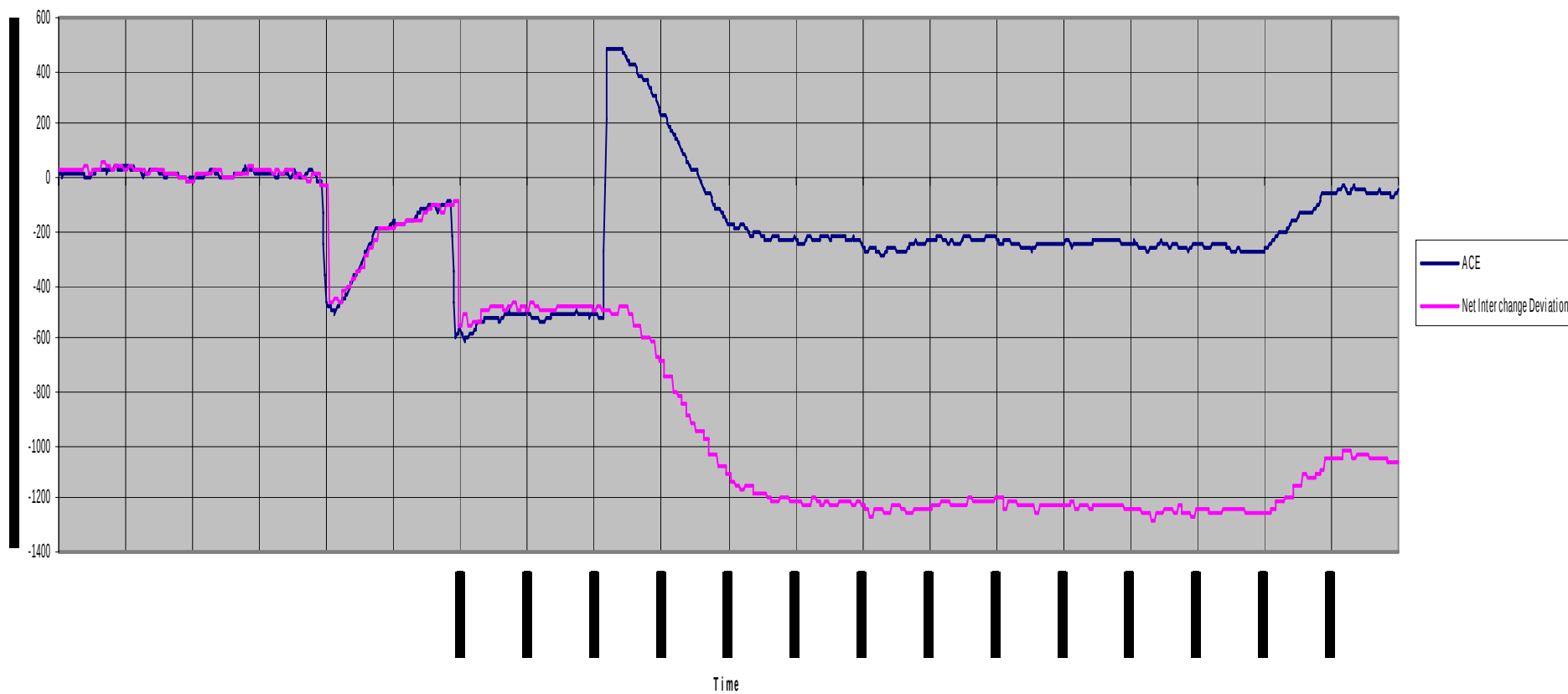
# Loss of a 400 MW generator

ACE and Net Interchange Deviation Chart

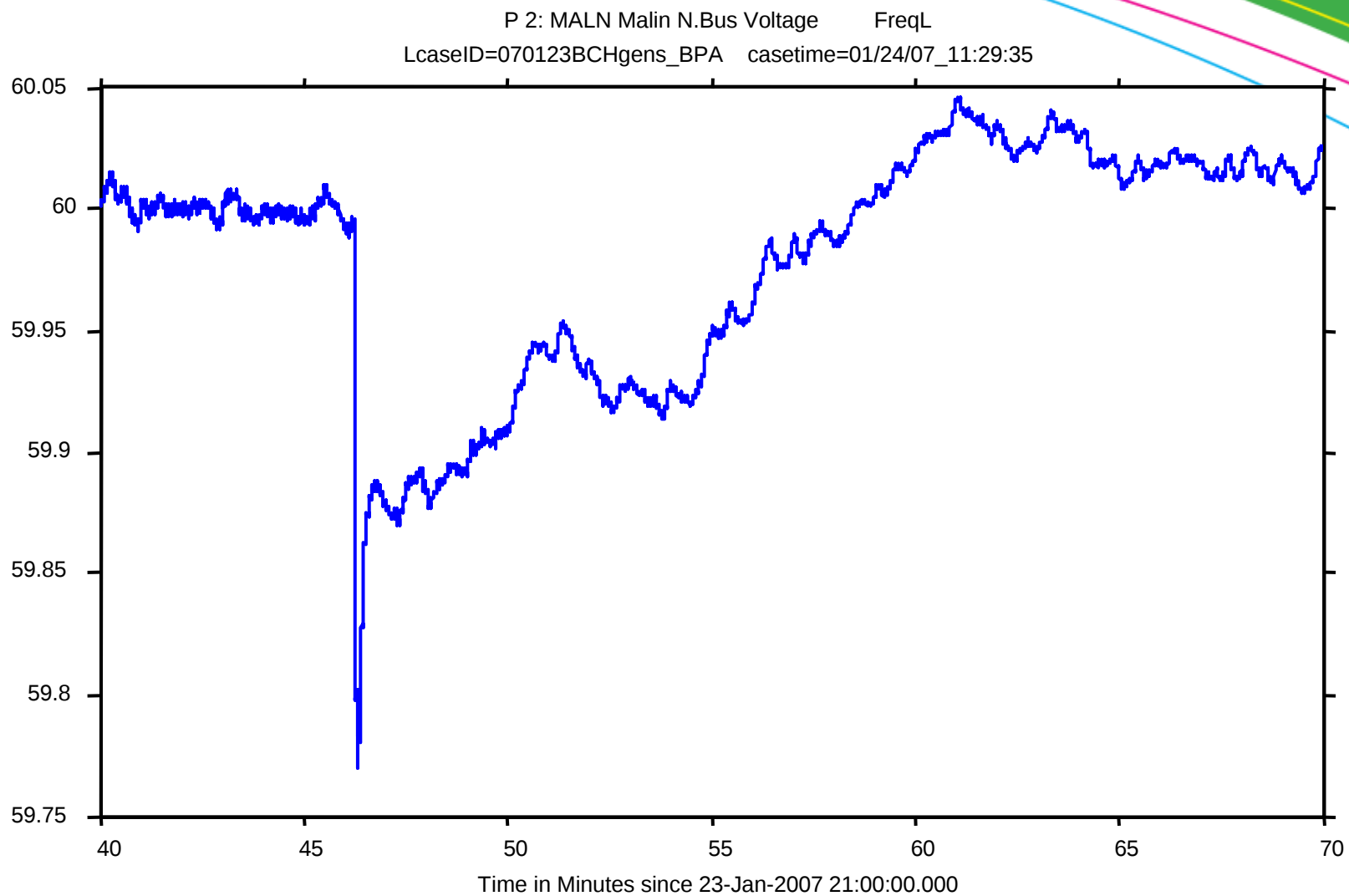


# Loss of 450 MW, then 450 MW again

ACE and Net Interchange Deviation Chart



# Frequency in a disturbance



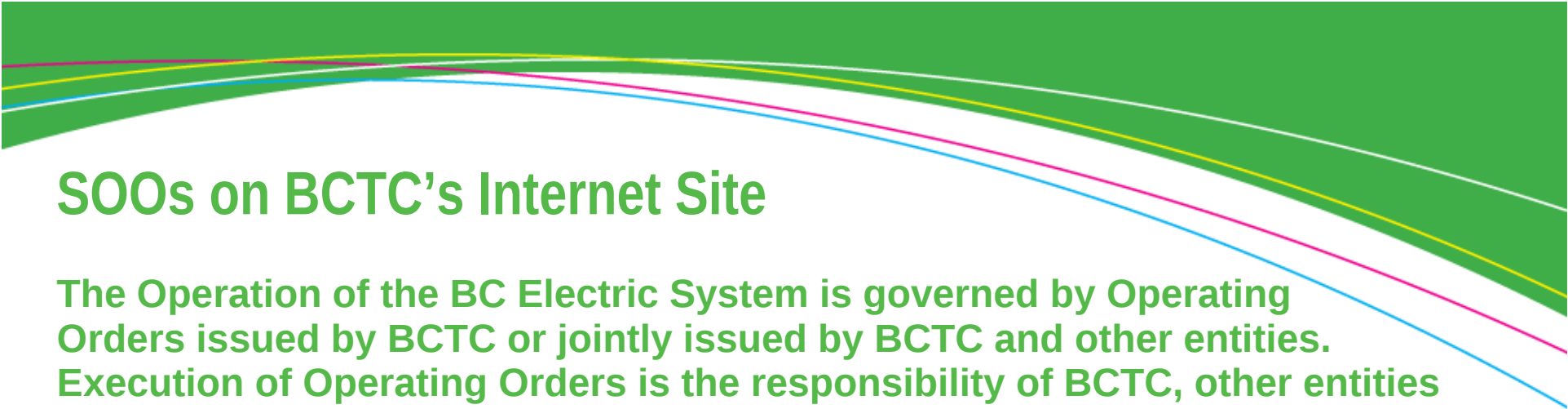


## System Operating Orders (SOO)

BCTC defines how it will operate the BC Power system by Operating Orders (SOOs). (BPA uses Standing Instructions while AESO uses Operating Policies and Procedures (OPPs)).

Planning studies are transferred to SOOs to define limits. Protection operations (automatic operations) are captured in SOOs. Equipment limitations are captured in SOOs and LOOs.

BCTC reviews operations with all participants to ensure coordinated efforts are maintained. All of this defines how BCTC requires its Power System Dispatchers (and others) to operate the BC Power System.



## SOOs on BCTC's Internet Site

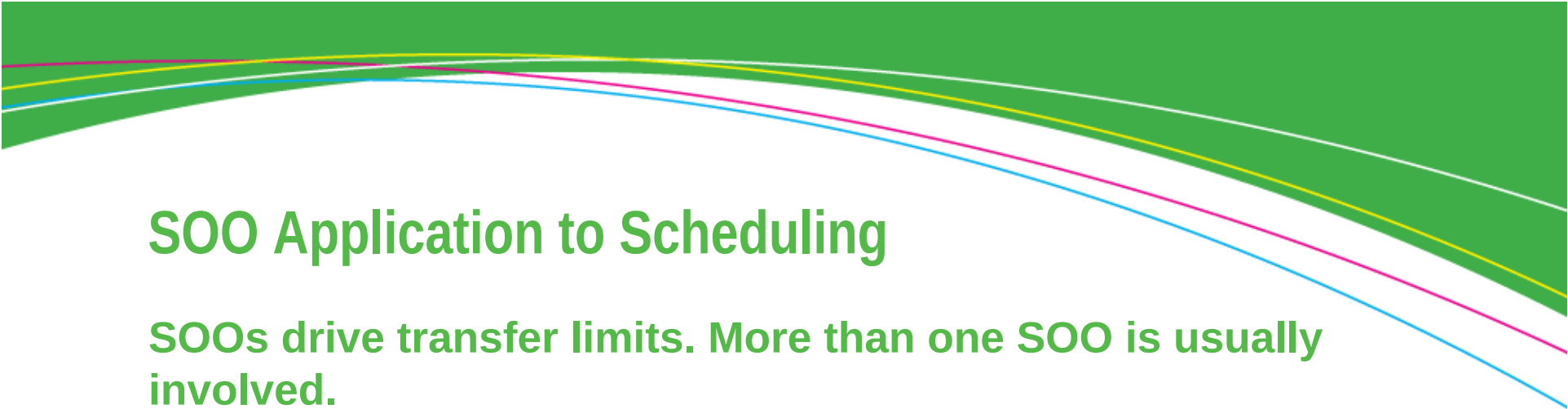
The Operation of the BC Electric System is governed by Operating Orders issued by BCTC or jointly issued by BCTC and other entities. Execution of Operating Orders is the responsibility of BCTC, other entities as specified and its service providers.

System Operating Orders (SOOs), Distribution Operating Orders (DOOs) and Local Operating Orders (LOOs) specify operation of the BC integrated electric system within the operating criteria specified by BCTC.

### SOOs listed on the website

([http://www.bctc.com/the\\_transmission\\_system/system\\_operating\\_orders/](http://www.bctc.com/the_transmission_system/system_operating_orders/))

- 100 series – Policies
- 600 series – Emergency
- 700 series – Composite Network



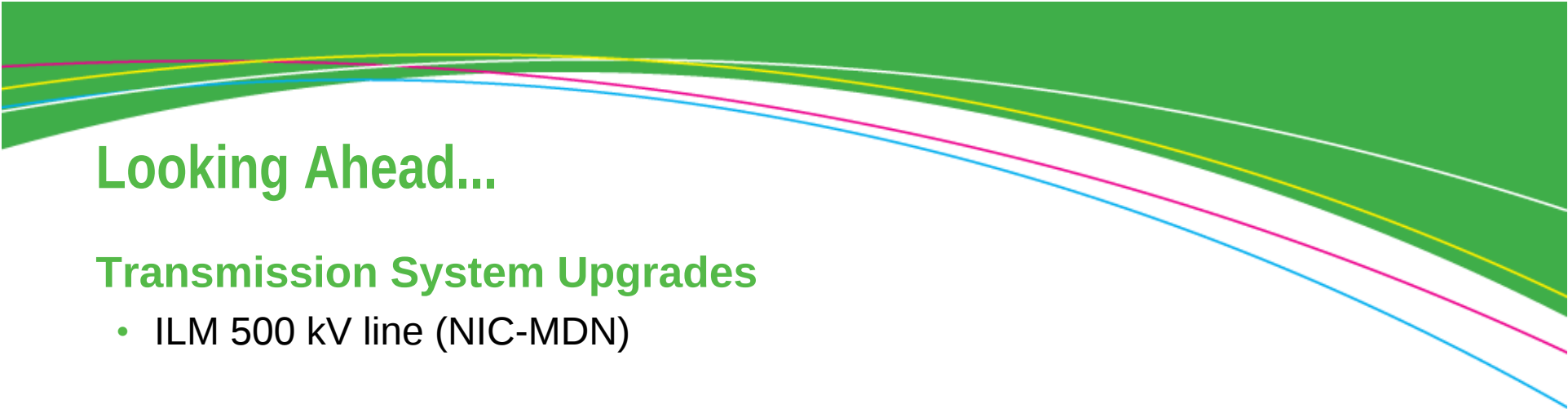
## SOO Application to Scheduling

SOOs drive transfer limits. More than one SOO is usually involved.

For example:

- SOO 7T-17, Alberta path (7T-33, 7T-34, 7T-12, 7T-50, 7T-64)
- SOO 7T-18, US path (7T-40, 7T-13, 7T-33, 7T-34, 7T-12, 7T-50, 7T-64)

SOO 7T-64 defines technical requirements to be met that define limits. Overall concept when operating is to meet minimum criteria as defined for all entities.



## Looking Ahead...

### Transmission System Upgrades

- ILM 500 kV line (NIC-MDN)

Sub-transmission additions to meet load and improve reliability

Wind generation

### SCMP (System Control Modernization Project)

- Five Control Centers amalgamated into one with a dedicated backup center

New constraints?

## Current System Control Center



## New Control Center

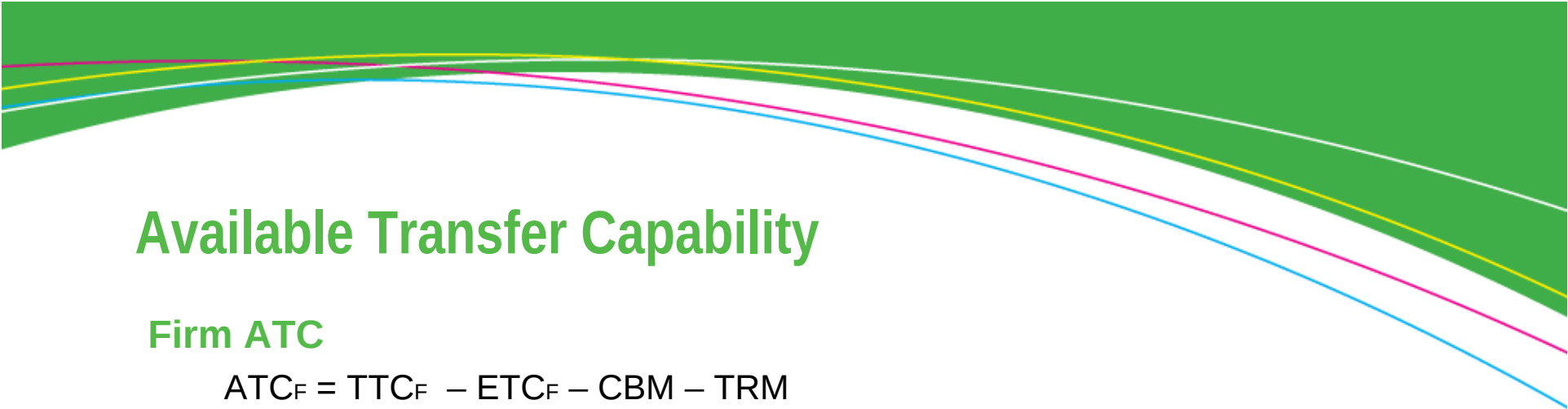


# New Control Center



## Available Transfer Capability (ATC)





# Available Transfer Capability

## Firm ATC

$$ATC_F = TTC_F - ETC_F - CBM - TRM$$

Where,

$ETC_F$  : Firm Existing Transfer Commitments

$CBM$  : Capacity Benefit Margin

$TRM$ : Transmission Reliability Margin

## For example: LM – BPAT

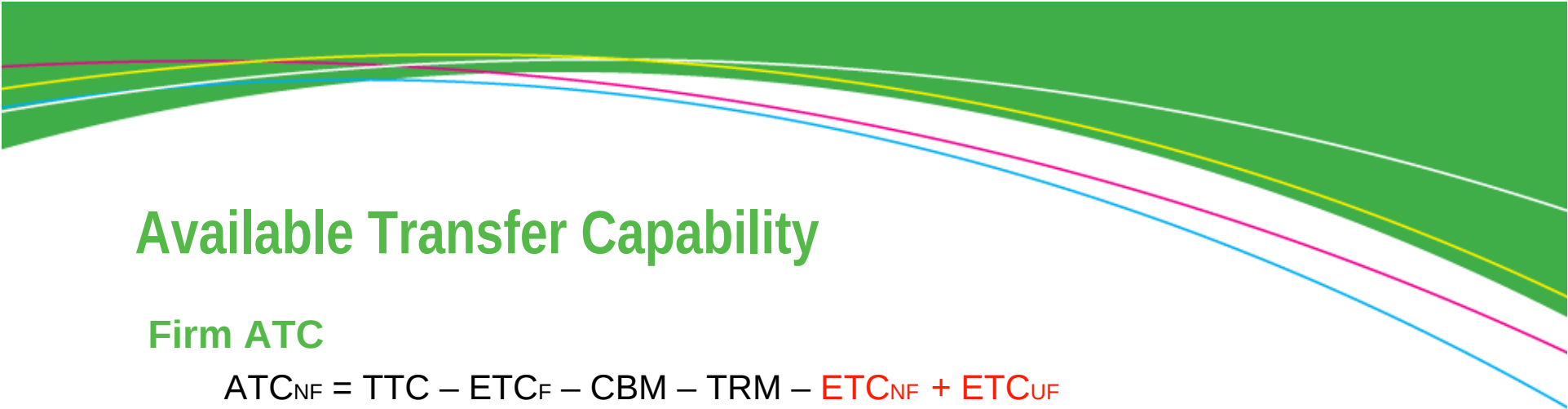
$$TTC_F = 1930$$

$$ETC_F = 230 + 370 = 600$$

$$TRM = 50$$

$CBM = 0$ ; then,

$$ATC_F = 1930 - 600 - 0 - 50 = 1280$$



# Available Transfer Capability

## Firm ATC

$$ATC_{NF} = TTC - ETC_F - CBM - TRM - ETC_{NF} + ETC_{UF}$$

Where,

$ETC_{NF}$  : Non-firm Existing Transfer Commitments

$ETC_{UF}$  : Unscheduled Firm Existing Transfer Commitments

## For example: LM – BPAT

$$TTC = 3150$$

$$ETC_F = 230 + 370 = 600; TRM = 50; CBM = 0;$$

$$ETC_{NF} = 100$$

$$ETC_{UF} = 350$$

Then,

$$ATC_{NF} = 3150 - 600 - 0 - 50 - 100 + 350 = 2750$$



# Available Transfer Capability

## NERC Proposals

### Standards

#### MOD – 001

##### Available Transfer Capability

- ATC umbrella standard
- Choose methodologies

#### MOD – 004

##### Capacity Benefit Margin

- For LSEs to meet generation capacity adequacy requirement

#### MOD – 008

##### TM Reliability Margin

- Reasons
- Amounts

### ATC Methodologies

#### MOD – 028

##### Area Interchange

- Incremental TTC
- TTC
- $ATC = TTC \text{ less } CU$

#### MOD – 029

##### Rated System Path

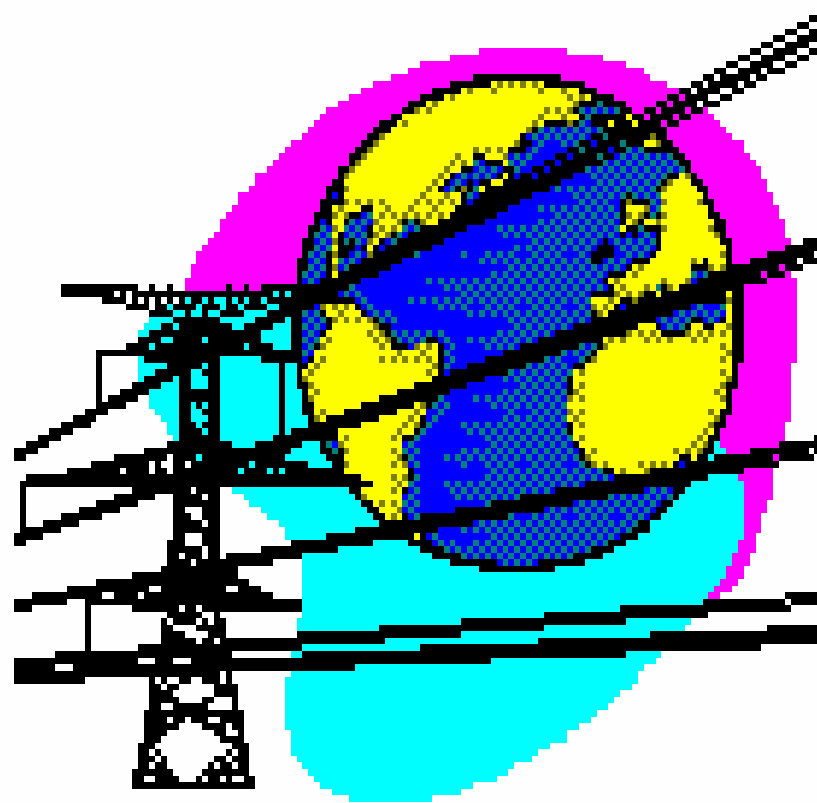
- Initial TTC
- $ATC = TTC \text{ less } CU$

#### MOD – 030

##### Flowgate

- Flowgate Facilities
- TFC & AFC
- AFC to ATC

# Transmission Services



# Market Operations

**Market Operations is the department within BCTC that provides:**

- Transmission Services:
  - Network Integration Transmission Services (multiple POD/POR)
  - Point-to-Point (single POD/POR)
- Interconnection Services:
  - Interconnection Studies
  - Interconnection Requirements
  - Construction & Interconnection
- These services are provided under OATT
- Clarified by Business Practices



## Network Integration Transmission Service

- Long-Term Firm
- Standard 10-year term
- PORs and PODs
- Load / Resource Balance

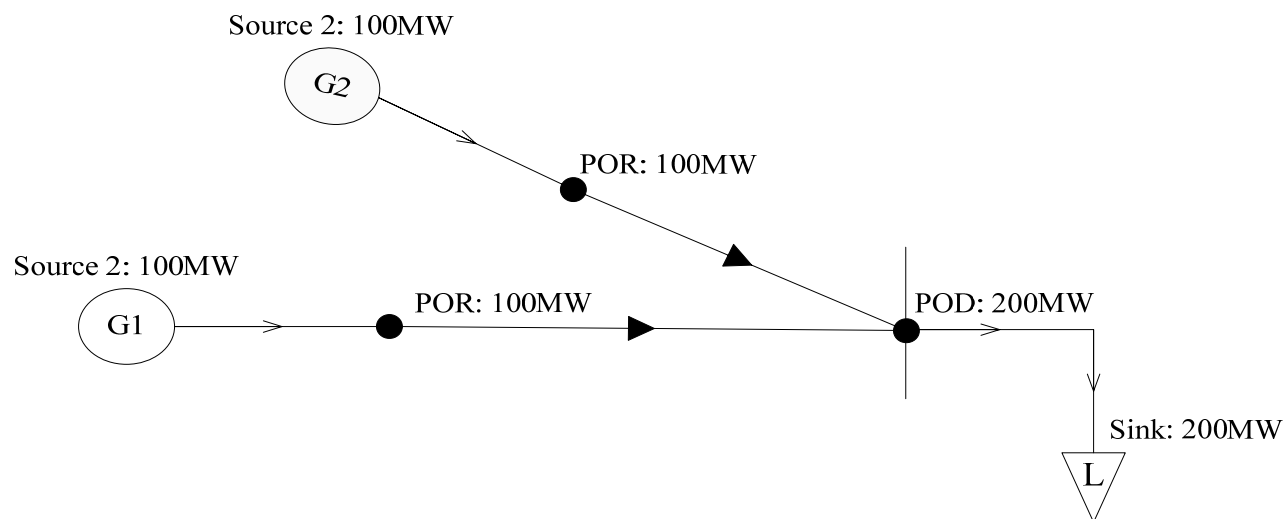


## Point-to-Point (PTP)

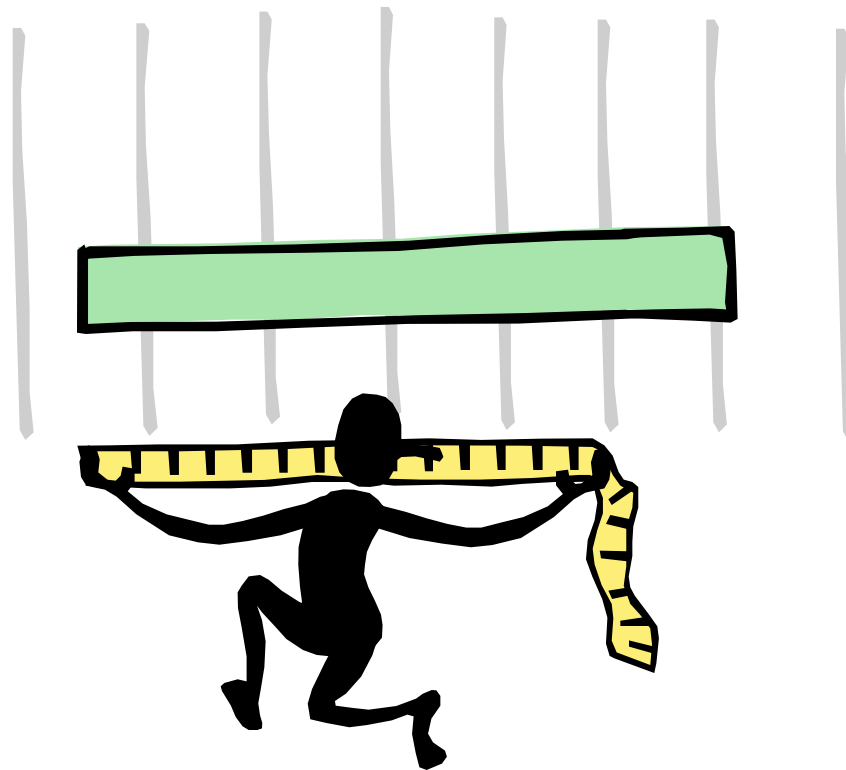
### PTP Transmission Service

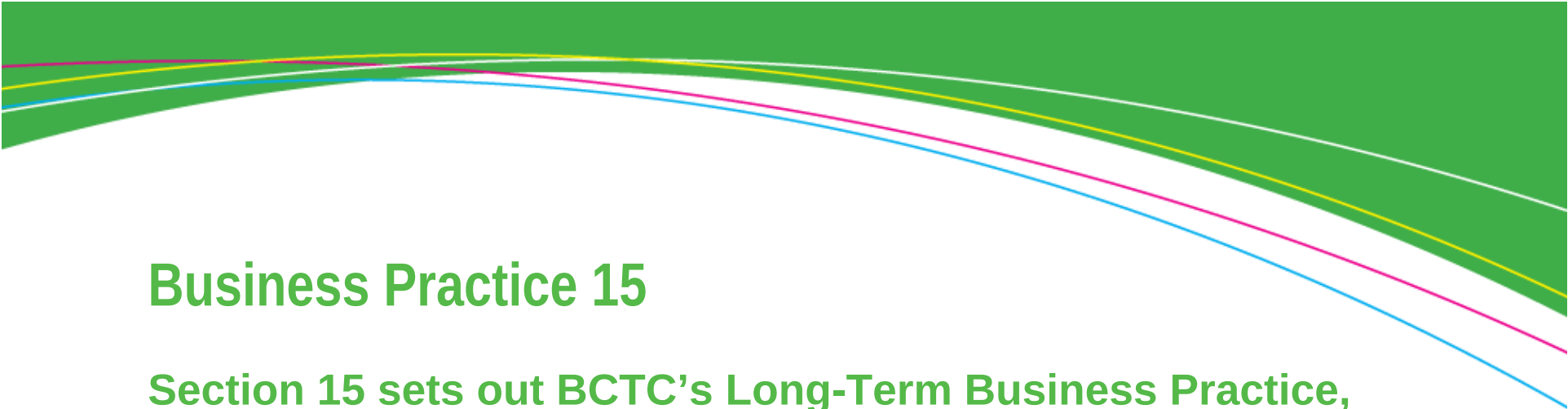
- PTP can be Firm (long- or short-term) or Non-Firm
- Short-Term Firm and Non-Firm
  - Less than 12 months
- Long-Term Firm
  - 12 months or longer
  - Rollover Rights
- Take-or-Pay based on reservation capacity
- POR and POD (Scheduling Points: may or may not be physical points)

# Point-to-Point



# Long-Term Transmission Scheduling



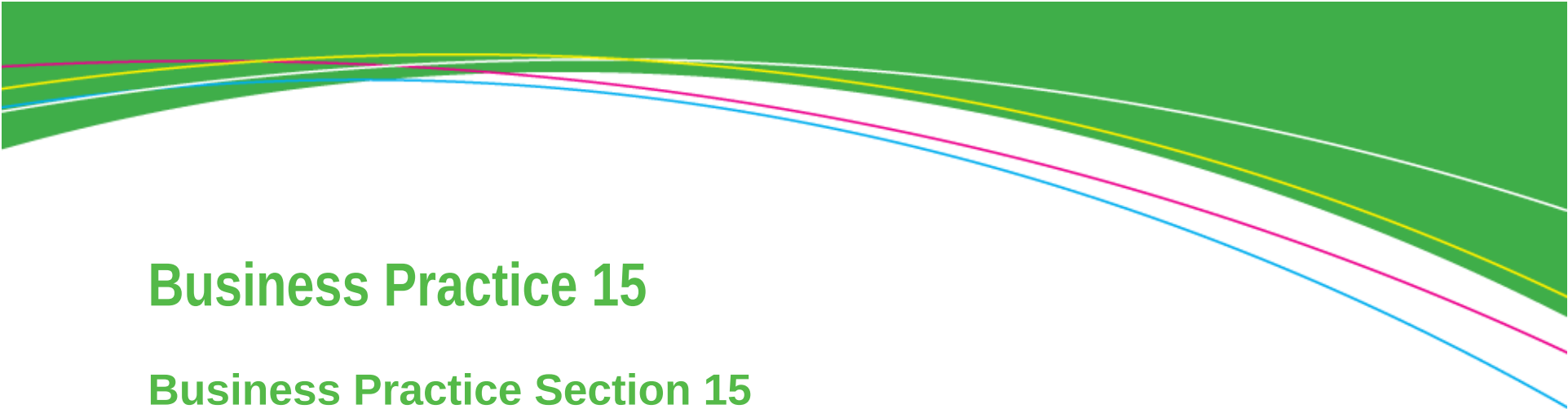


## Business Practice 15

**Section 15 sets out BCTC's Long-Term Business Practice, which is located on our website at**

<http://www.bctc.com/NR/rdonlyres/4EEFF805-EDA2-4975-89C5-FFEAA750BDB7/2046/2006Nov6Section15updated.pdf>

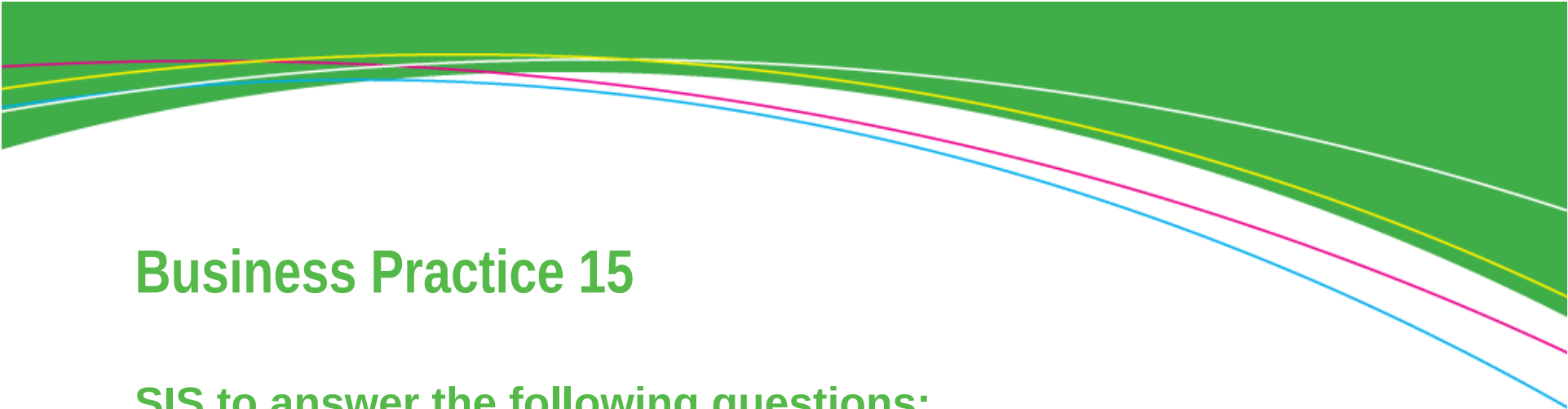
- BCTC will conduct a study to determine ATC and determine whether or not a System Impact Study (SIS) is required
- BCTC will offer one of the following:
  - Full service
  - Partial service and a SIS Agreement
  - Shaped Service and a SIS Agreement
  - A SIS Agreement



## Business Practice 15

### Business Practice Section 15

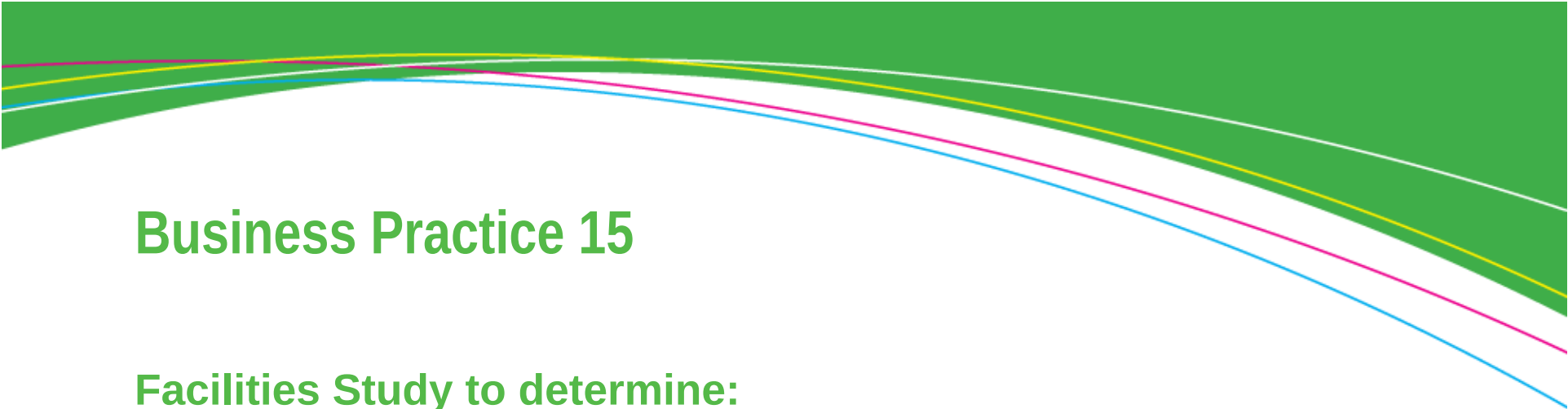
- Partial service and a SIS Agreement
  - Customer may execute either the agreement or both
  - If customer doesn't execute the partial service agreement, the request is deemed withdrawn
- Shaped service and a SIS Agreement
  - Customer may execute either the agreement or both
  - If customer doesn't execute the shaped service agreement, the request is deemed withdrawn



## Business Practice 15

**SIS to answer the following questions:**

- What new Network Upgrades are required to provide requested service in full?
- Are Re-dispatch options available?

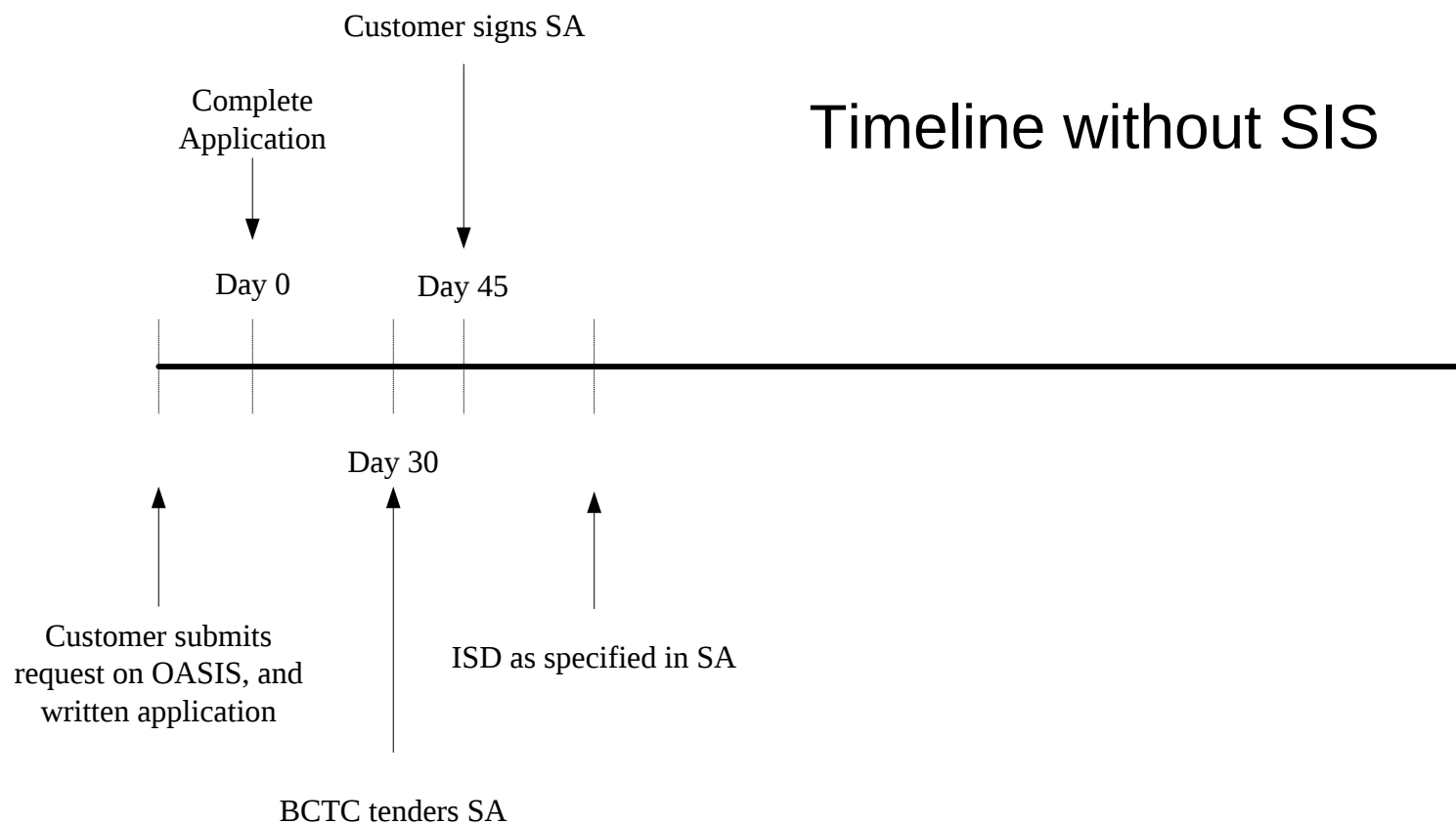


## Business Practice 15

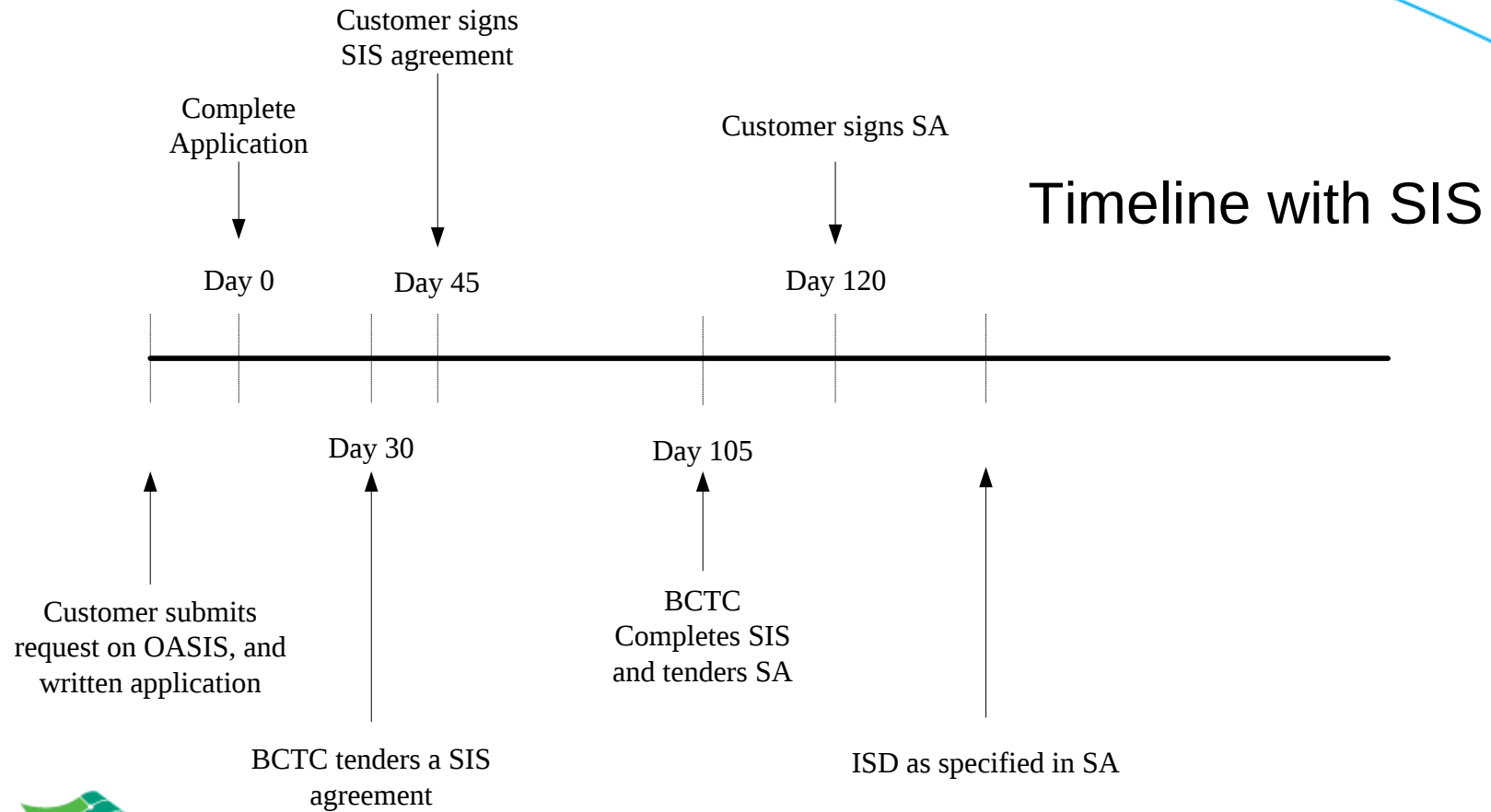
### Facilities Study to determine:

- Cost of Network Upgrades identified in SIS
- Customer's share of the costs
- Timelines

# Procedures and Timelines

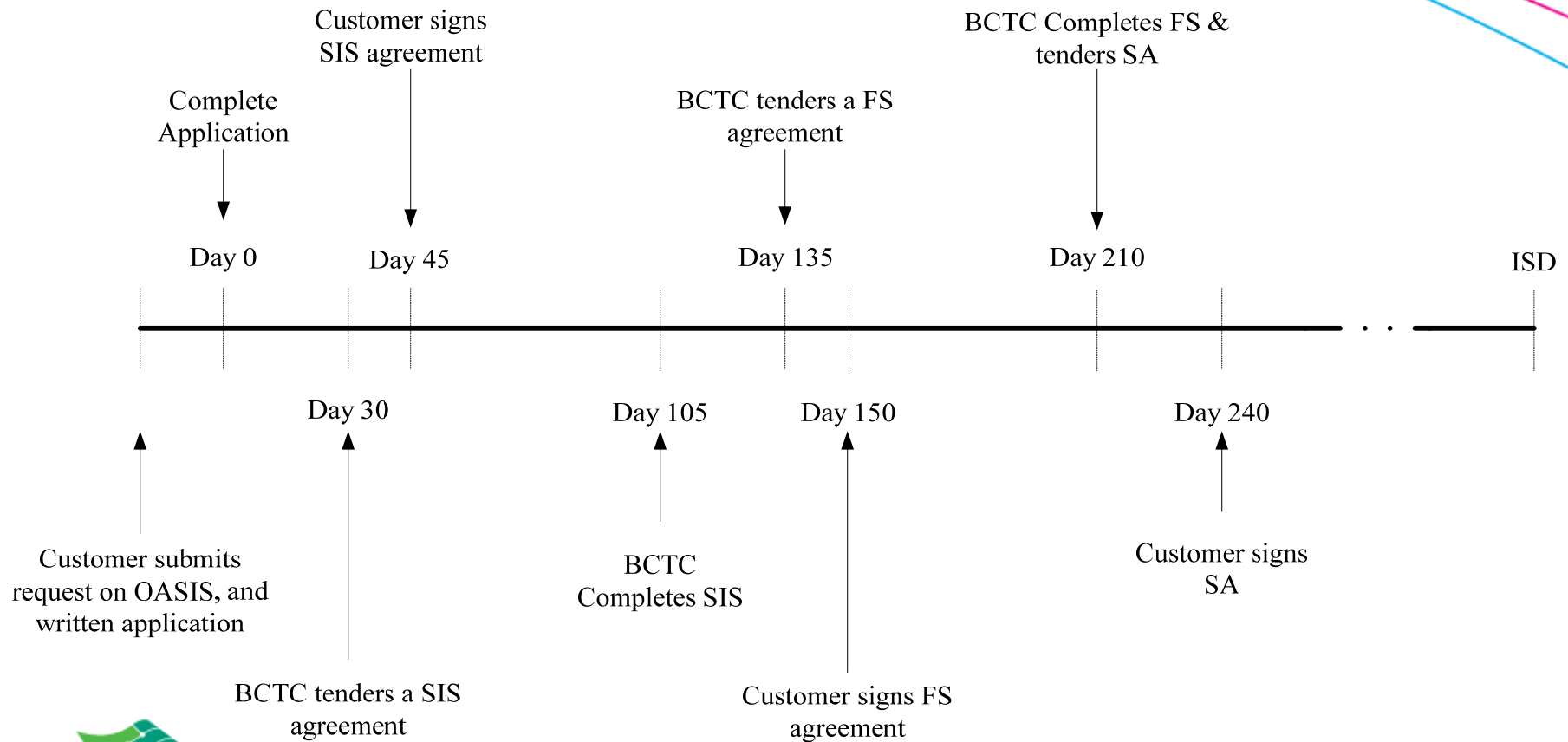


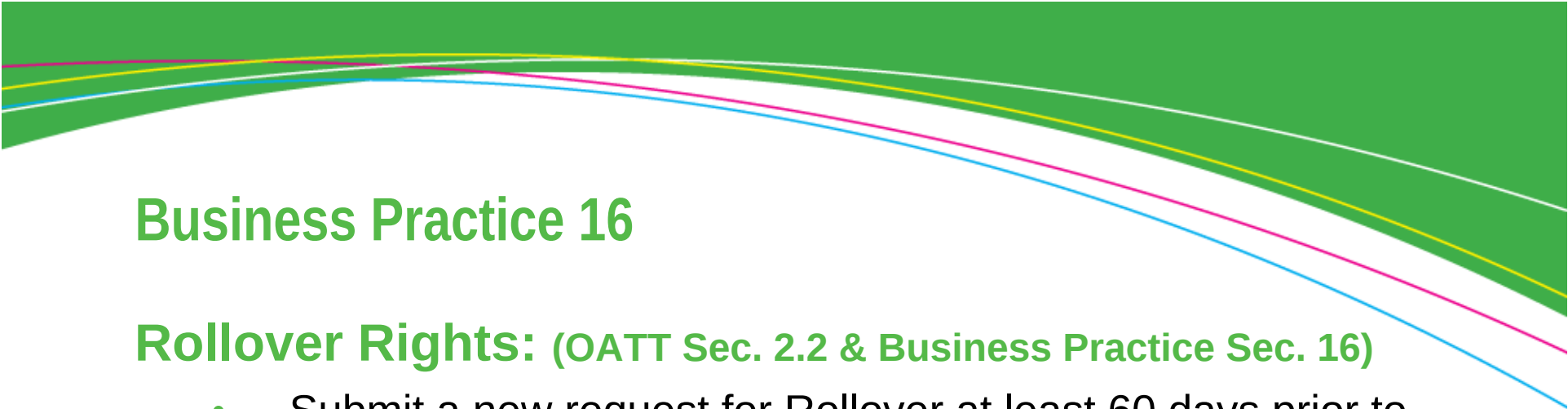
# Procedures and Timelines



# Procedures and Timelines

## Complete Timeline





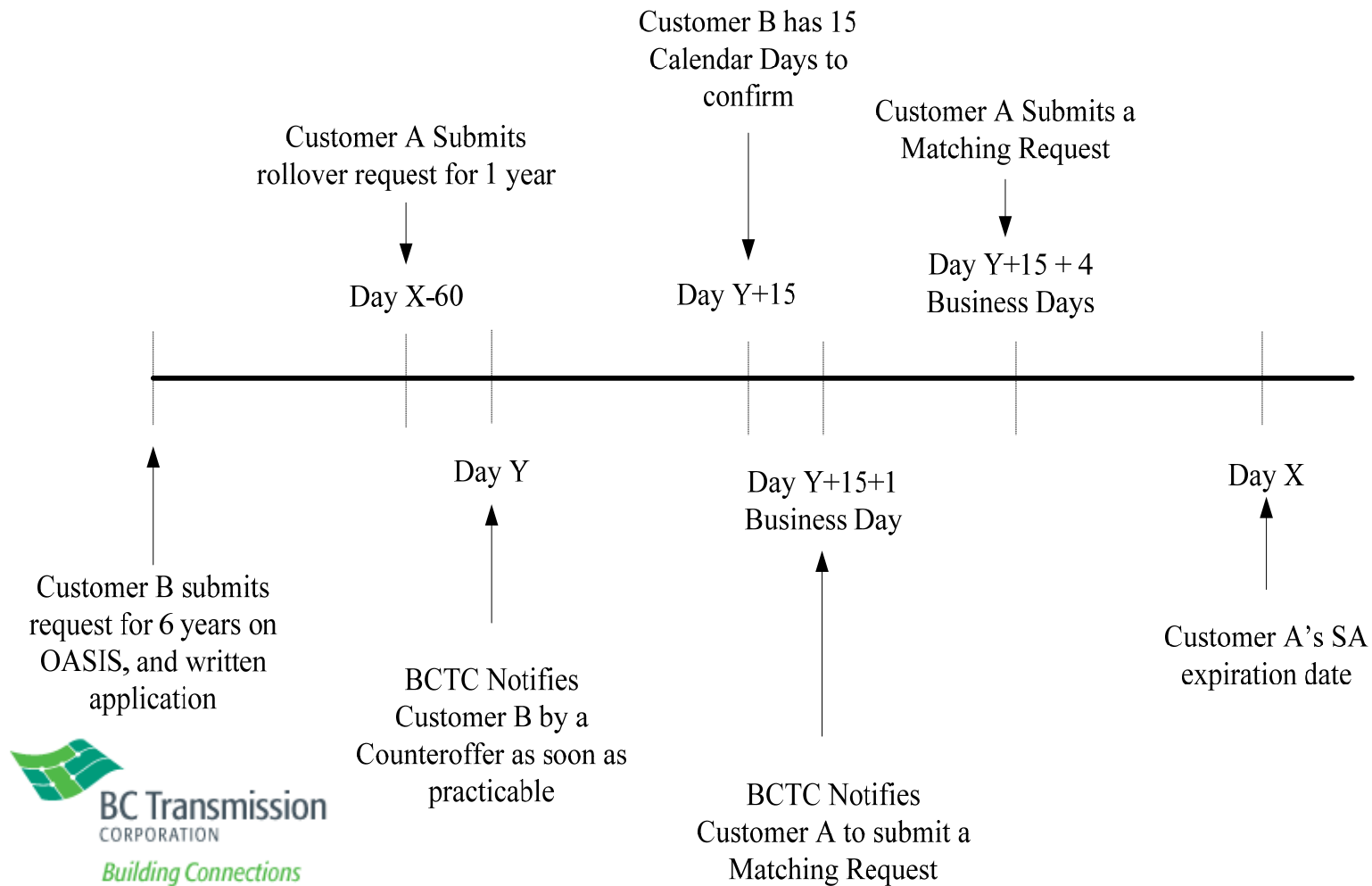
## Business Practice 16

### Rollover Rights: (OATT Sec. 2.2 & Business Practice Sec. 16)

- Submit a new request for Rollover at least 60 days prior to End Date (Rollover Request)
- Prior request for a longer term and for the same capacity (Competing Request)
- Both requests have the same Start Time
- Rollover Request has a Right of First Refusal (ROFR) to match term
- The last Rollover Request is required to match first

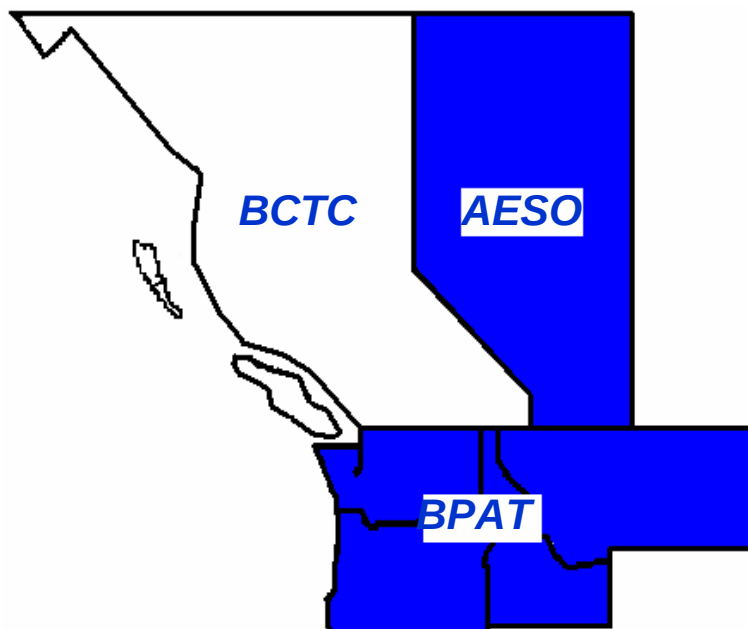
# Long-Term PTP

## Rollover Rights



## Business Practice 16

### Rollover Rights



#### Queue positions:

- 1  BCTC - AESO  
(New Request)
- 2  BPAT - BCTC  
(New Request)
- 3  BPAT - AESO  
(Rollover Request)

## Business Practice 16

### Rollover Rights:

#### Example 1:

- Customer A has a 1-year contract for 100 MW (1 Jan 07 End Date)
- There are 200 MW ATC
- Service Requests:

| Queue Postion | Customer | MW  | Start Date | End Date  | Term    | Type of Request |
|---------------|----------|-----|------------|-----------|---------|-----------------|
| 1             | B        | 200 | 01-Jan-07  | 01-Jan-12 | 5 years | New             |
| 2             | A        | 100 | 01-Jan-07  | 01-Jan-08 | 1 year  | Rollover        |

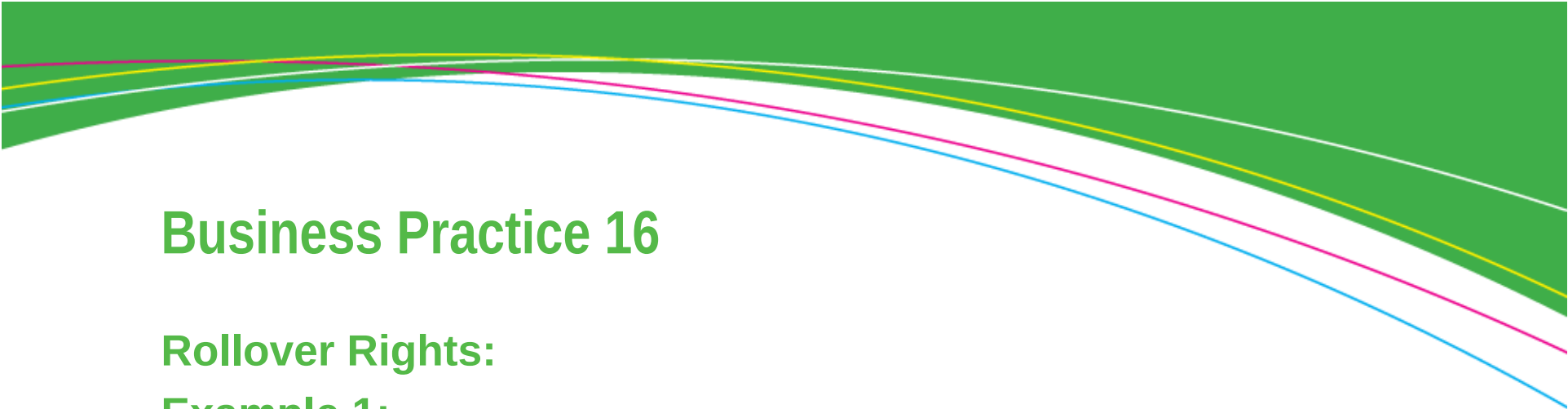


## Business Practice 16

### Rollover Rights:

#### Example 1:

- Based on queue positions:
  1. Customer B: 200 MW for 5 years
  2. Customer A: 0 MW



## Business Practice 16

### Rollover Rights:

#### Example 1:

- Based on Rollover Rights
  1. BCTC counteroffers Customer B (200 MW for 5 years)
  2. If Customer B confirms
  3. BCTC asks Customer A to match
  4. If Customer A matches:
    - Customer A: 100 MW for 5 years
    - Customer B: 100 MW for 5 years

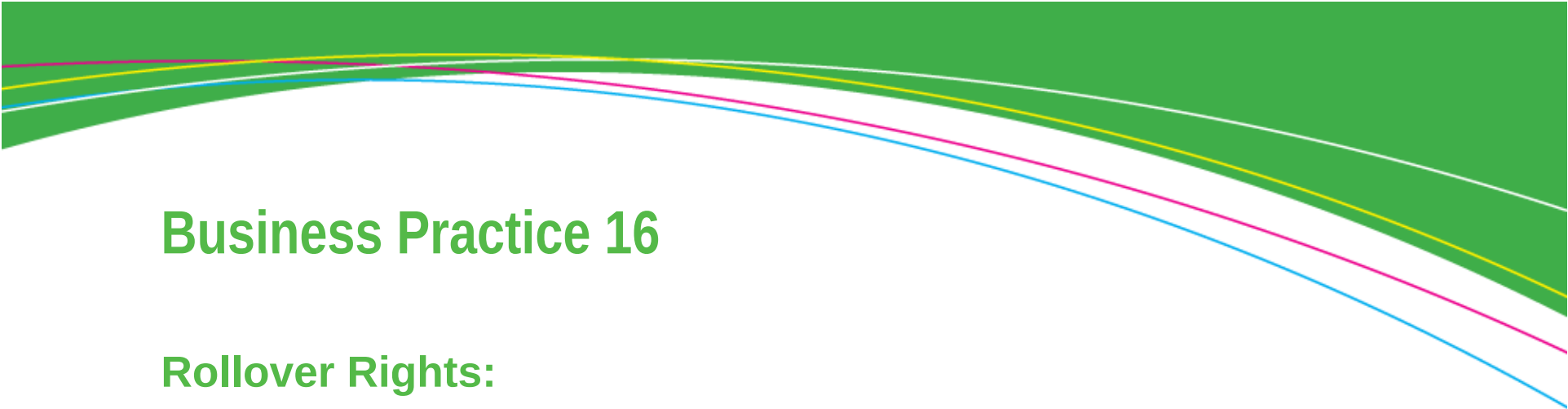
## Business Practice 16

### Rollover Rights:

#### Example 2:

- Customer A has a 1-year contract for 100 MW (1 Jan 07 End Date)
- Customer B has a 1-year contract for 100 MW (1 Jan 07 End Date)
- There are 200 MW ATC
- Service Requests:

| Queue Postion | Customer | MW  | Start Date | End Date  | Term    | Type of Request |
|---------------|----------|-----|------------|-----------|---------|-----------------|
| 1             | C        | 100 | 01-Jan-07  | 01-Jan-12 | 5 years | New             |
| 2             | A        | 100 | 01-Jan-07  | 01-Jan-08 | 1 year  | Rollover        |
| 3             | B        | 100 | 01-Jan-07  | 01-Jan-08 | 1 year  | Rollover        |

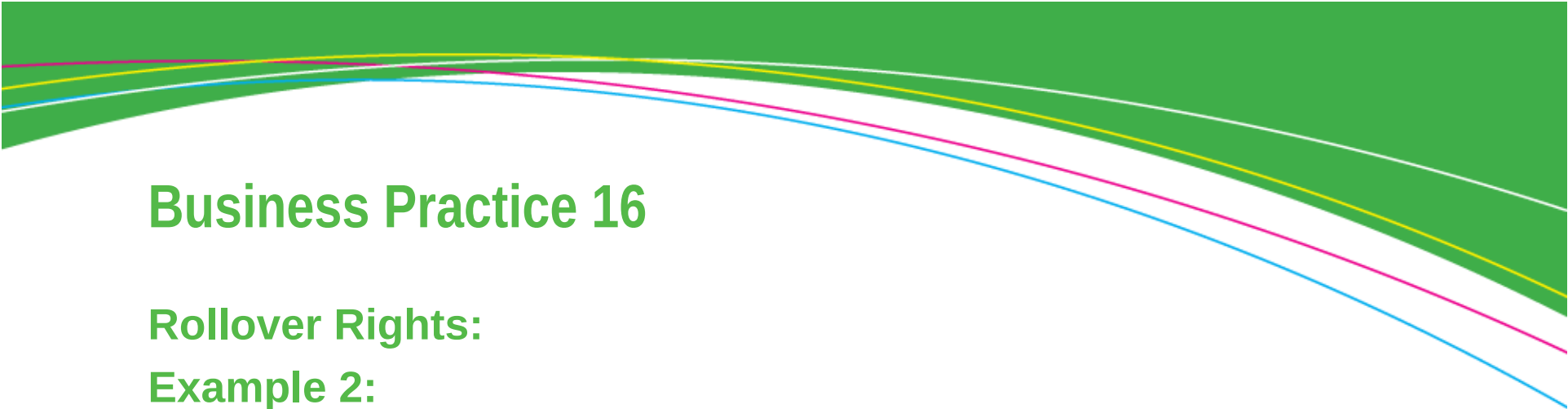


## Business Practice 16

### Rollover Rights:

#### Example 2:

- Based on queue positions:
  1. Customer C: 100 MW for 5 years
  2. Customer A: 100 MW for 1 years
  3. Customer B: 0 MW



## Business Practice 16

### Rollover Rights:

#### Example 2:

- Based on Rollover Rights, Customer B is asked to match first:
- If Customer B matches:
  - Customer B: 100 MW for 5 years
  - Customer A is asked to match next
- If Customer B refuses to match:
  - Customer A: 100 MW
  - Customer B: 0 MW
  - Customer C: 100 MW

## Business Practice 16

### Rollover Rights:

#### Example 3:

- Customer A has a 1-year contract for 100 MW (1 Jan 07 End Date)
- Customer B has a 1-year contract for 100 MW (1 Jan 07 End Date)
- There are 200 MW ATC
- Service Requests:

| Queue Postion | Customer | MW  | Start Date | End Date  | Term    | Type of Request |
|---------------|----------|-----|------------|-----------|---------|-----------------|
| 1             | C        | 200 | 01-Jan-07  | 01-Jan-12 | 5 years | New             |
| 2             | A        | 100 | 01-Jan-07  | 01-Jan-08 | 1 year  | Rollover        |
| 3             | B        | 100 | 01-Jan-07  | 01-Jan-08 | 1 year  | Rollover        |



## Business Practice 16

### Rollover Rights:

#### Example 3:

- Based on queue positions:
  1. Customer C: 200 MW for 5 years
  2. Customer A: 0 MW
  3. Customer B: 0 MW



## Business Practice 16

### Rollover Rights:

#### Example 3:

- Based on Rollover Rights, both Customer A and B are asked to match at the same time

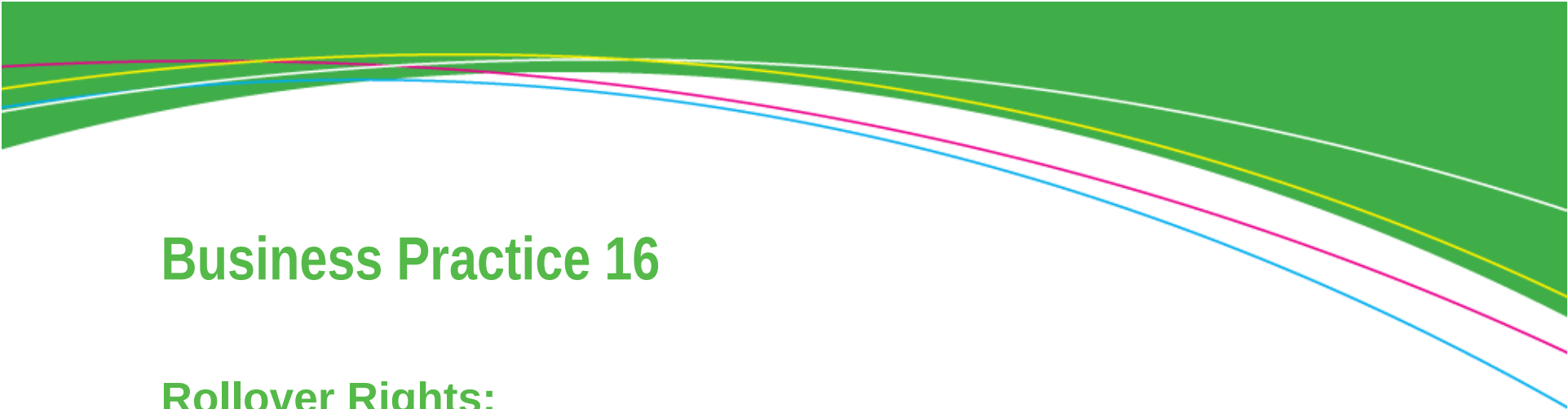
# Business Practice 16

## Rollover Rights:

### Example 4:

- Customer A has a 1-year contract for 100 MW (1 Jan 07 End Date)
- There are 100 MW ATC
- Service Requests:

| Queue Postion | Customer | MW  | Start Date | End Date  | Term    | Type of Request |
|---------------|----------|-----|------------|-----------|---------|-----------------|
| 1             | B        | 100 | 01-Jan-07  | 01-Jan-09 | 2 years | New             |
| 2             | C        | 100 | 01-Jan-07  | 01-Jan-12 | 5 years | New             |
| 3             | A        | 100 | 01-Jan-07  | 01-Jan-08 | 1 year  | Rollover        |



## Business Practice 16

### Rollover Rights:

#### Example 4:

- Based on queue positions:
  1. Customer B: 100 MW for 2 years
  2. Customer C: 0 MW
  3. Customer A: 0 MW



## Business Practice 16

### Rollover Rights:

#### Example 4:

- Based on Rollover Right, Customer A is asked to match a 2-year term for 100 MW
- If Customer A matches:
  1. Customer A: 100 MW for 2 years
  2. Customer B: 0 MW
  3. Customer C: 0 MW

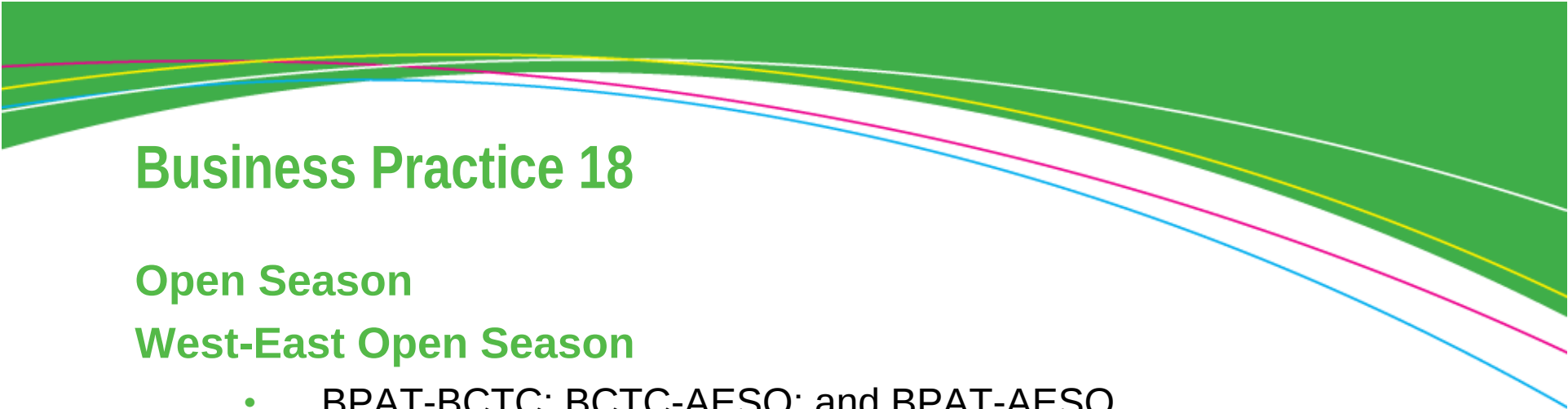


## Business Practice 16

### Rollover Rights:

#### Example 4:

- If Customer B fails to confirm BCTC's counteroffer:
  1. Customer B is out of the Competing Process
  2. BCTC counteroffers Customer C (100 MW for 5 years)
  3. Customer C confirms
  4. BCTC asks Customer A to match a 5-year term



## Business Practice 18

### Open Season

#### West-East Open Season

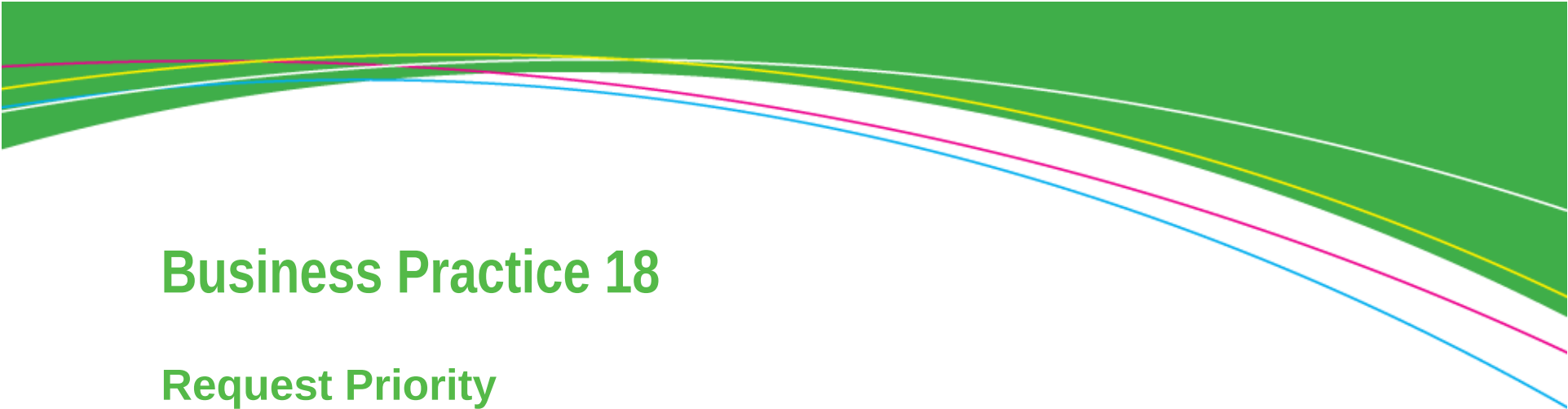
- BPAT-BCTC; BCTC-AESO; and BPAT-AESO

#### East-West Open Season

- AESO-BCTC; BCTC-BPAT; and AESO-BPAT

All transmission requests corresponding to Open Season paths within the window are deemed participating.

Prior requests may elect to participate

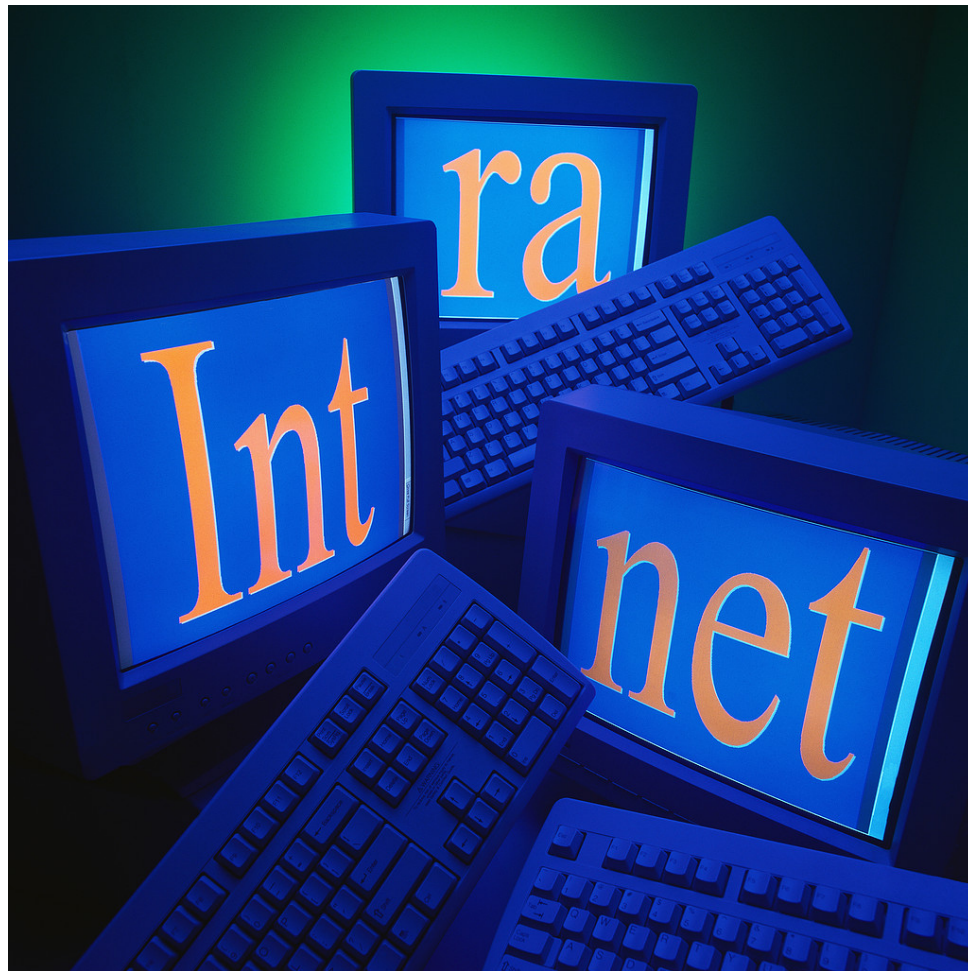


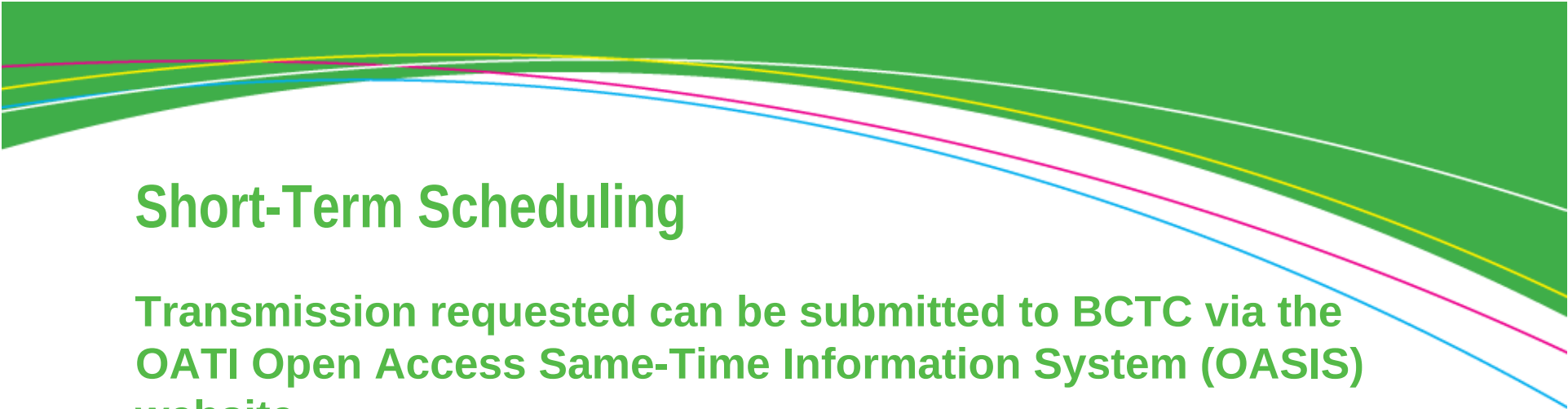
## Business Practice 18

### Request Priority

- First-come first-served wrt existing ATC
- Same priority for Network Upgrades
- Study costs allocated pro rata
- ATC created allocated pro-rata

## Scheduling Tools





## Short-Term Scheduling

Transmission requested can be submitted to BCTC via the OATI Open Access Same-Time Information System (OASIS) website.

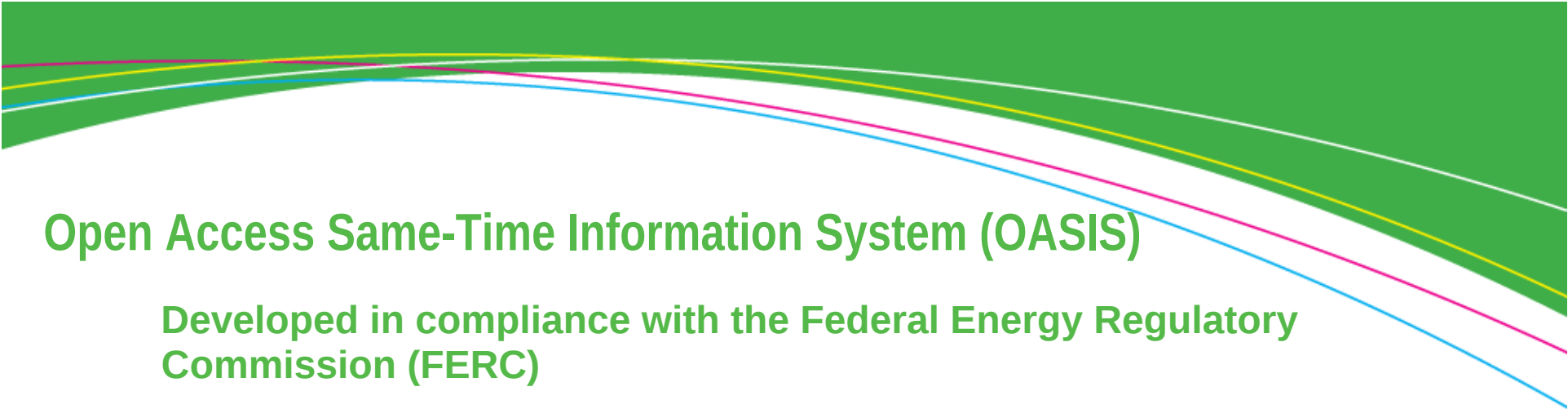
Once transmission is secured, energy schedules (eTag) can be submitted to BCTC via the OATI Energy Tagging System (ETS) website.

BCTC will process requests automatically through its Transmission Scheduling System (TSS) based on BCTC's OATT and Business Practices.

# Transmission Scheduling System (TSS)

**BCTC's TSS enables the management of OASIS requests and eTags. TSS is automated to implement our OATT and Business Practices. It also:**

- Processes a high volume of transmission and energy transactions
- Frequently calculates and posts TTC/ATC to OASIS
- Posts prices to OASIS
- Changes OASIS status (MATCHING, REBID, COUNTEROFFER, etc.)
- Changes eTag status
- Performs curtailments
- Performs displacements
- Provides audit trail of all transactions



## Open Access Same-Time Information System (OASIS)

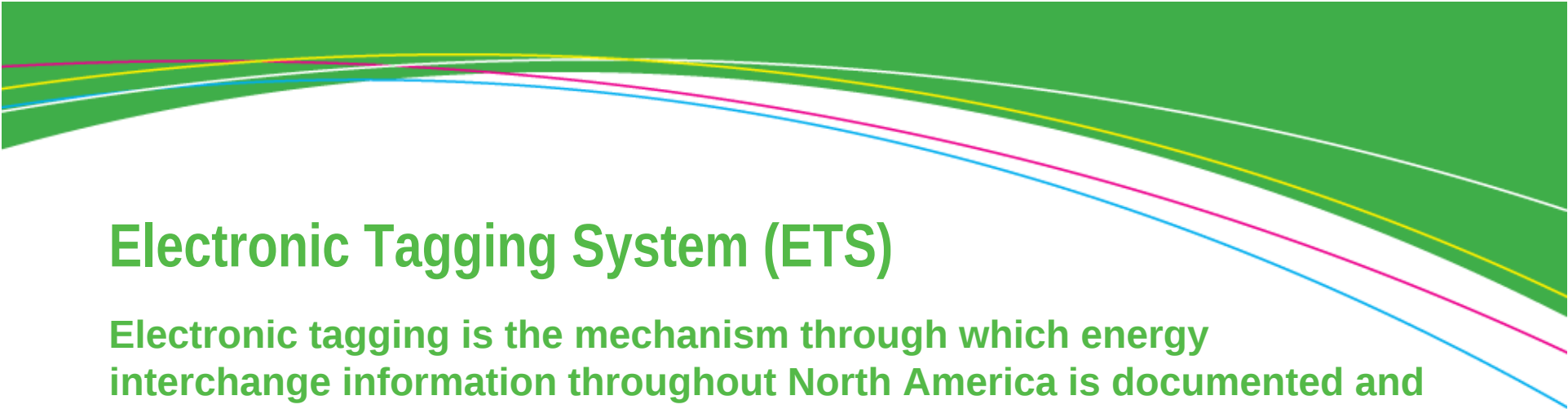
Developed in compliance with the Federal Energy Regulatory Commission (FERC)

Electronic bulletin board that enables customers to purchase transmission services on an open access non-discriminatory basis

Provides transparency and an audit trail

All requests by customers for transmission service must be submitted on OASIS

BCTC utilizes OASIS and TSS to provide transmission services to its customers



## Electronic Tagging System (ETS)

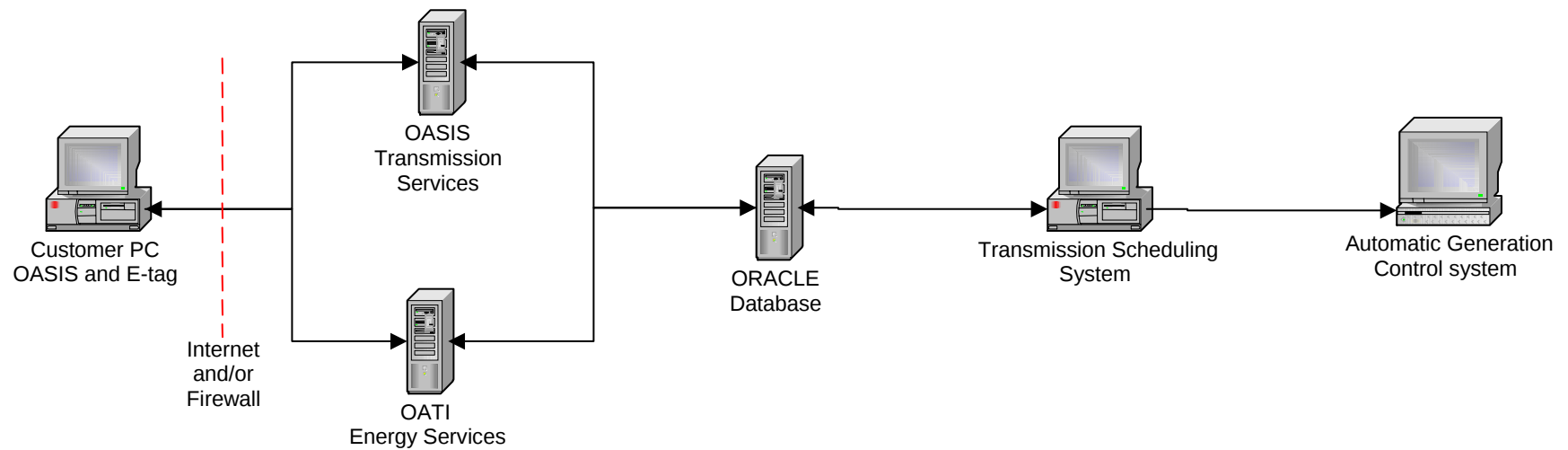
Electronic tagging is the mechanism through which energy interchange information throughout North America is documented and communicated between all market players and is an integral component of the energy market

eTagging is governed by the North American Electric Reliability Council (NERC) and was implemented in September 1999

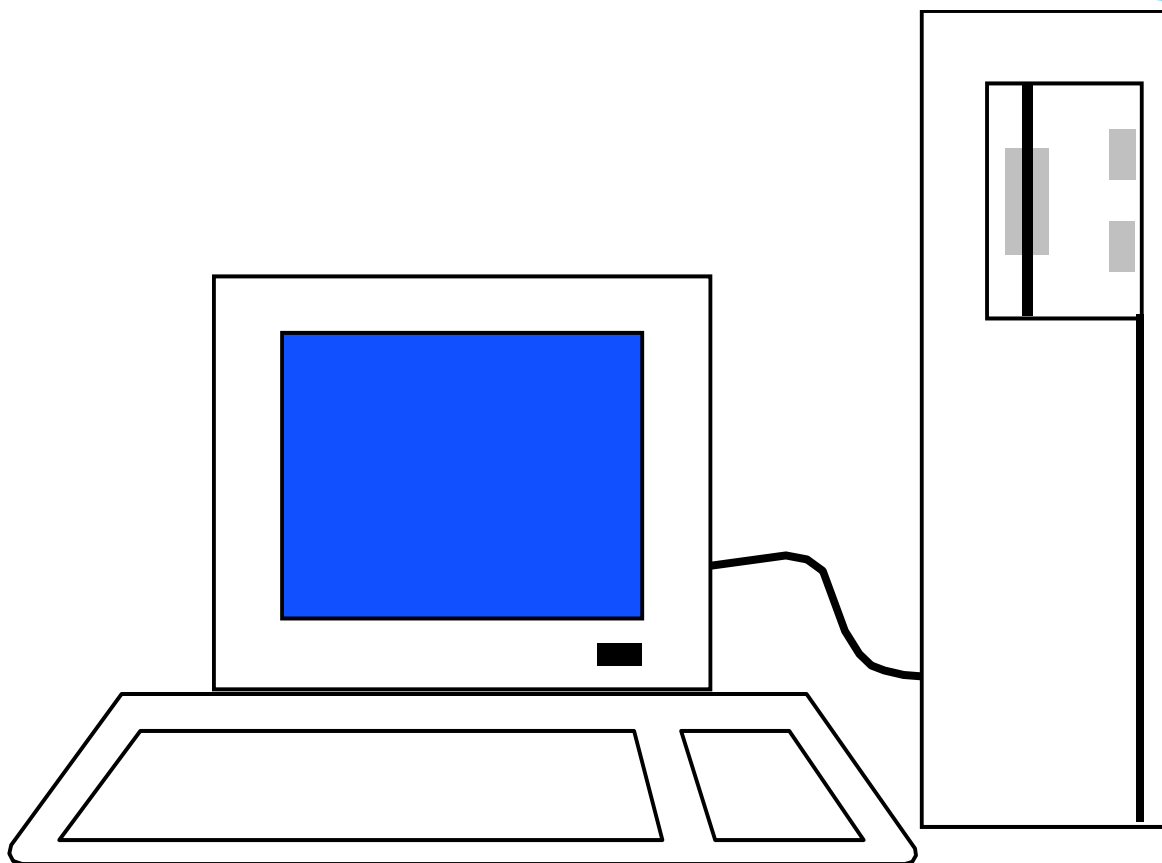
### ETS is used by majority of entities with NA

- Tough to accurately track schedules from source to sink
- Disconnect between the physical and non-physical market
- Because of this disconnect, the need to track deals from source to sink was born

# Scheduling Tools



OASIS



# OASIS Login

## BCTC subscribes to OATI for its OASIS services

- The URL for the production OASIS is <https://www.oatioasis.com>
- Click on “https://www.oatioasis.com”
- Click on Production Node Login

Registration | About

OATI webOASIS™ Production Node

**OATI** webOASIS  
Innovative Solutions for the Deregulated Energy Industry

©2001 OATI webOasis™ - Open Access Technology International, Inc. All Rights Reserved.

Production Node Login

**BC Transmission**  
CORPORATION  
*Building Connections*

## OASIS Login

Enter password and click “Login” – this accesses the digital certificate

OATI Innovative Solutions for the Deregulated Energy Industry

**webOASIS**

OATI webOASIS User Login

|                                      |                 |
|--------------------------------------|-----------------|
| User ID                              | BONNIE_MITCHELL |
| Password                             |                 |
| <input type="button" value="Login"/> |                 |

# OASIS Login

Click on wesTTrans.net icon

**Welcome to OASIS**

Company: BCTC  
User: BONNIE\_MITCHELL  
User Type: TP User  
Time of Login: November 06, 2006 17:11:58



**OASIS News**

**October 24th: OASIS Release 3.2.05**

As a reminder, OATI IT staff will be performing routine maintenance on network hardware components which will affect access to the OATI webOASIS on Tuesday October 24, 2006. There will be two brief periods the first of which is expected to last for up to 10 minutes from 2:05 – 2:15 AM CDT, and the second period of outage will occur from 2:35 to 2:50 AM CDT. If you have any questions or concerns, please contact the OATI Helpdesk at 763-201-2020 or support@oati.net.

**Previous OASIS Updates (10/11/2006)**

**OASIS Release 3.2.05**

# OASIS Login

EEMI\_Test2 (demo.oatioasis.com) - OASIS - Microsoft Internet Explorer provided by BCTC

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://demo.oatioasis.com/cgi-bin/webplus.dll?script=%2Fwoa%2Fwoa-main.wml&ppr=WestTrans Go Links

**OATI** Reservations Sys Data Offerings Resale Reductions Data Company Home Help Options Logout EEMI\_Test211-23 14:26 PDT  
Ancillary Offerings Security Deals Schedules Notices User Bulletin Auction EEMI Welcome to OATI OASIS

Select Provider BCTC

westtrans.net  
A Web-Based Regional Transmission Market

Active content removed Active content removed

Home | Participants | Transmission Map | Update | Registration | OASIS | Focus Group | Features | Contacts

Active content removed

\*\*\* Announcements \*\*\*

Latest News

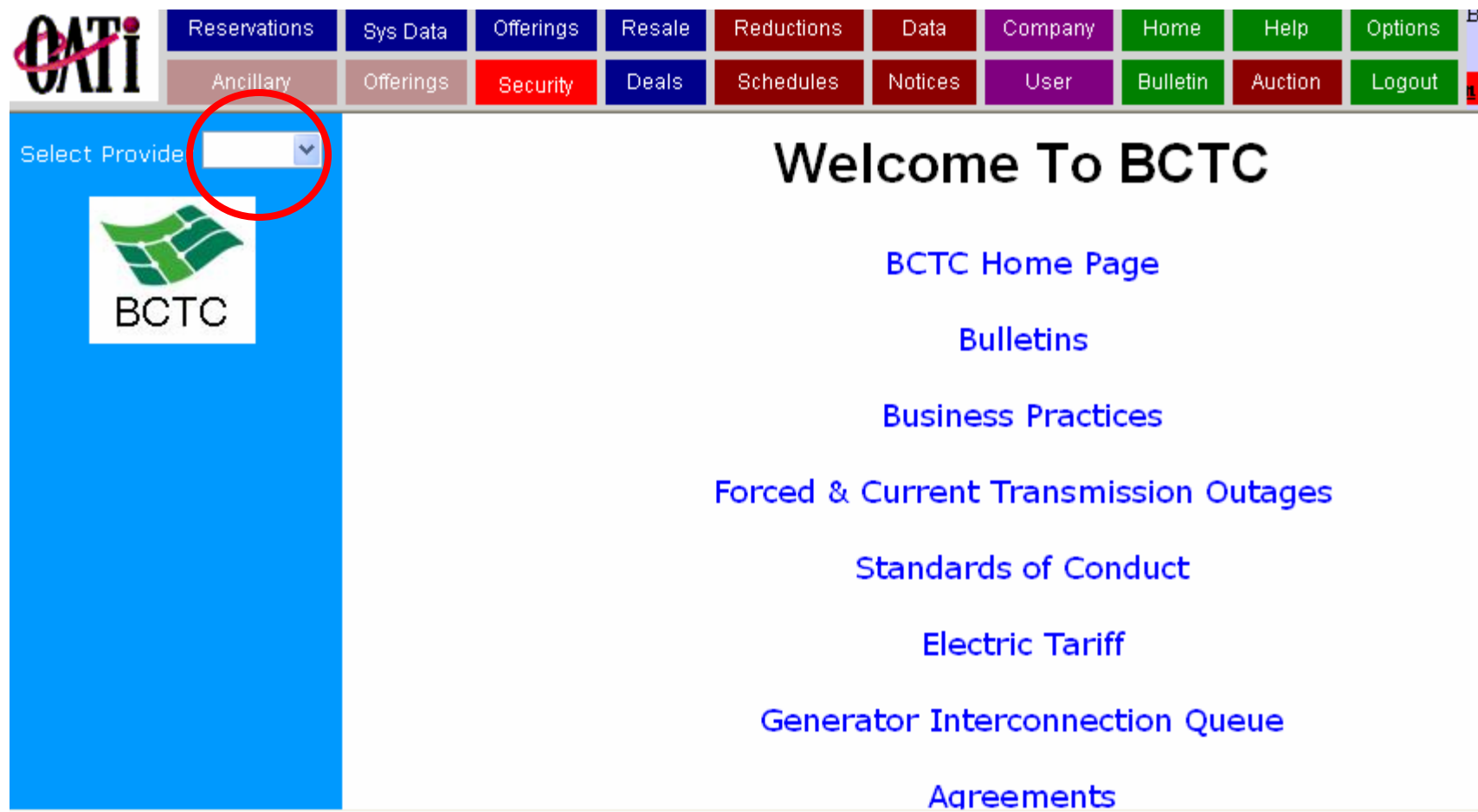
BCTC AECI BREC CLECO CLEC Duquesne Light DLCO EKPC OVEC PRPA SPC TSGT TVA

Done Internet

start Microsoft Office... Microsoft Excel - De... California ISO: Exe... EEMI\_Test2 (demo.... 1:26 PM

# BCTC OASIS Front Page

Select and click on BCTC in the “Select Provider” window



The screenshot displays the BCTC OASIS Front Page. At the top, there is a navigation bar with the following links: Reservations, Sys Data, Offerings, Resale, Reductions, Data, Company, Home, Help, Options, Ancillary, Offerings, Security, Deals, Schedules, Notices, User, Bulletin, Auction, and Logout. The 'Security' link is highlighted in red. Below the navigation bar, on the left, is a 'Select Provider' dropdown menu with a red circle around it. Below the dropdown is the BCTC logo. The main content area on the right has a large heading 'Welcome To BCTC' and a list of links: BCTC Home Page, Bulletins, Business Practices, Forced & Current Transmission Outages, Standards of Conduct, Electric Tariff, Generator Interconnection Queue, and Agreements.

**Reservations** **Sys Data** **Offerings** **Resale** **Reductions** **Data** **Company** **Home** **Help** **Options**

**Ancillary** **Offerings** **Security** **Deals** **Schedules** **Notices** **User** **Bulletin** **Auction** **Logout**

Select Provider

  
BCTC

## Welcome To BCTC

[BCTC Home Page](#)

[Bulletins](#)

[Business Practices](#)

[Forced & Current Transmission Outages](#)

[Standards of Conduct](#)

[Electric Tariff](#)

[Generator Interconnection Queue](#)

[Agreements](#)

## Submitting a Transmission Request on OASIS

### To request transmission you need to:

1. At the main page, select “Reservations”, then select BCTC as the Service Provider
2. Click on “Enter”
3. Select TSR
4. Use scroll down menus to specify and submit the following:
  - Day/Hour/Week/Month/Year;
  - Service Class;
  - Type;
  - Time Period;
  - Path Name;
  - Point of Receipt / Point of Delivery
  - Start and Stop Times

## Submitting a Transmission Request on OASIS

**BCTC Time Zone**  
PS

**Reservation Entry Form V1.4**

BCTC

| Seller | Source Sink          | POR<br>POD           | Service              | Request<br>Type | Start                 | Stop                  | MW |
|--------|----------------------|----------------------|----------------------|-----------------|-----------------------|-----------------------|----|
| BCTC   | <input type="text"/> | <input type="text"/> | <input type="text"/> | ORIGINAL        | 11/09/2006<br>11 : 00 | 11/09/2006<br>12 : 00 |    |

**Customer**  **Path**  **Preconfirmed** ☐

|                     |                      |
|---------------------|----------------------|
| Posting Ref         | <input type="text"/> |
| Sale Ref            | <input type="text"/> |
| Deal Ref            | <input type="text"/> |
| Request Ref         | <input type="text"/> |
| Related Ref         | <input type="text"/> |
| Comment             | <input type="text"/> |
| Status Notification | <input type="text"/> |

**Reservation Profile**  
☐ 25Hr ☐ 24Hr ☐ H ☐ D ☐ W ☐ M ☒ Y ☐ Other

# Posting Reference Numbers

Each posting on OASIS has a reference number which can be used for audit purposes

These are the numbers you will use for all correspondence with BCTC as the transmission provider

Other associated information – Seller and its DUNS number, POR/POD, capacity, and price

| Selected time range: 2006-11-06 00:00 PS to 2009-12-31 23:59 PS |          |                        |        |             |                      |              |       |                |   |
|-----------------------------------------------------------------|----------|------------------------|--------|-------------|----------------------|--------------|-------|----------------|---|
| Posting Ref                                                     | Provider | Updated Time ↓         | Seller | Seller Duns | Path                 | POR          | POD   | Interface Type |   |
| 490466254                                                       | BCTC     | 2006-11-05 07:41:56 PS | BCTC   | 205147817   | W/BCTC/BCTC - AESO// | BCTC.NETWORK | AB.BC |                | 2 |
| 478338382                                                       | BCTC     | 2006-11-05 07:42:01 PS | BCTC   | 205147817   | W/BCTC/BCTC - AESO// | BCTC.NETWORK | AB.BC |                | 2 |
| 479313878                                                       | BCTC     | 2006-11-05 07:42:01 PS | BCTC   | 205147817   | W/BCTC/BCTC - AESO// | BCTC.NETWORK | AB.BC |                | 2 |
| 490956514                                                       | BCTC     | 2006-11-06 07:41:52 PS | BCTC   | 205147817   | W/BCTC/BCTC - AESO// | BCTC.NETWORK | AB.BC |                | 2 |
| 476830404                                                       | BCTC     | 2006-11-06 07:41:58 PS | BCTC   | 205147817   | W/BCTC/BCTC - AESO// | BCTC.NETWORK | AB.BC |                | 2 |
| 477324201                                                       | BCTC     | 2006-11-06 07:41:58 PS | BCTC   | 205147817   | W/BCTC/BCTC - AESO// | BCTC.NETWORK | AB.BC |                | 2 |
| 477834390                                                       | BCTC     | 2006-11-06 07:41:58 PS | BCTC   | 205147817   | W/BCTC/BCTC - AESO// | BCTC.NETWORK | AB.BC |                | 2 |
| 478283190                                                       | BCTC     | 2006-11-06 07:41:58 PS | BCTC   | 205147817   | W/BCTC/BCTC - AESO// | BCTC.NETWORK | AB.BC |                | 2 |

# Reserving Transmission





## Types of Requests

Preconfirmed Yes transmission requests are set to **CONFIRMED** by BCTC immediately if ATC is available

Preconfirmed No transmission requests are set to **ACCEPTED** by BCTC immediately if ATC is available. The customer must, in turn, confirm the request within the timelines for the request to be **CONFIRMED**

- Transmission customer does not pay unless request is confirmed

For more information on request timelines, refer to BCTC's Business Practices

## Submitting a Request - First Way

On the Reservations Page select “New TSR”. Can also quickly narrow request down to next hour or next day

- Advantage – able to build a custom profile
- Disadvantage – no information of ATC availability

**Reservation Summary fo**

Cust ALL ▼ Incr ALL ▼ Path

TP BCTC ▼ Class ALL ▼ Status ALL ▼

Seller ALL ▼ Type ALL ▼ Time Start ▼ Any time ▼

**New TSR** More Filtering User Range Columns Save

Hourly Summary Spreadsheet

**BCTC Time Zone**  
PS

**Reservation Entry**

BCTC ▼ Select Provider Enter TSR Clear Form Save As Te

**Seller** **Source Sink \*** **POR POD** **Service \*** **Request Type** **Start** << >>

BCTC ▼    ORIGINAL ▼ 11/06/2006 18 : 00

**Customer** **Path \***

☐ 25Hr ☐ 24Hr ☐ H ☐

# Submitting a Request - Second Way

Use the Posting Ref number at the left of your offerings query

TP

BCTC

+

Incr

ALL

+

Peri

ALL

+

POR

ALL

+

Path

ALL

+

+

Sell

ALL

+

Class

NON-FIRM

+

Win

ALL

+

POD

ALL

+

Daylight Savings

☒

Show Active Data

☐

Ref

+

Type

ALL

+

Sub

ALL

+

Time

Start

+

Tomorrow fwd

+

Enter

New Posting

User Range

Columns

Hourly Summary

Save Query

Spreadsheet

Download CSV

Upload CSV

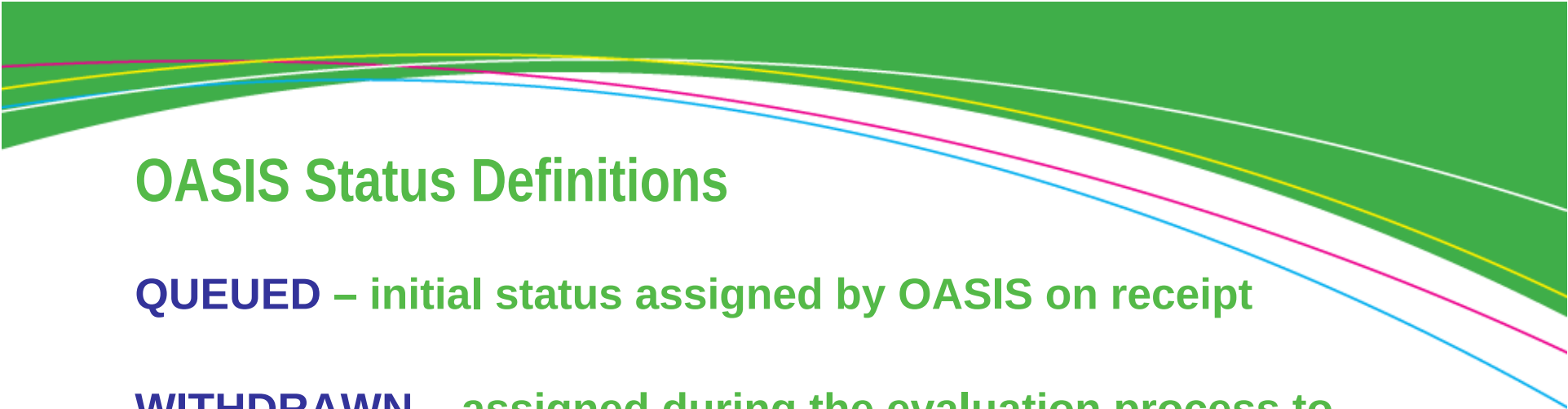
Selected time range: 2006-11-09 00:00 PS to 2009-12-31 23:59 PS

| Posting Ref | Provider | Updated Time           | Seller | Seller Duns | Path                 | POR           | POD           | Im |
|-------------|----------|------------------------|--------|-------------|----------------------|---------------|---------------|----|
| 477832694   | BCTC     | 2006-10-10 07:38:33 PD | BCTC   | 205147817   | W/BCTC/BCTC - BCTC// | BCTC.INTERNAL | BCTC.INTERNAL |    |
| 478281495   | BCTC     | 2006-10-11 07:38:45 PD | BCTC   | 205147817   | W/BCTC/BCTC - BCTC// | BCTC.INTERNAL | BCTC.INTERNAL |    |
| 478791462   | BCTC     | 2006-10-12 07:38:40 PD | BCTC   | 205147817   | W/BCTC/BCTC - BCTC// | BCTC.INTERNAL | BCTC.INTERNAL |    |
| 479312158   | BCTC     | 2006-10-13 07:38:38 PD | BCTC   | 205147817   | W/BCTC/BCTC - BCTC// | BCTC.INTERNAL | BCTC.INTERNAL |    |
| 479314239   | BCTC     | 2006-10-13 07:45:06 PD | BCTC   | 205147817   | W/BCTC/BPAT - BCTC// | BC.US.BORDER  | BCTC.NTWK.LD  |    |
| 479702710   | BCTC     | 2006-10-14 07:38:44 PD | BCTC   | 205147817   | W/BCTC/BCTC - BCTC// | BCTC.INTERNAL | BCTC.INTERNAL |    |

## Submitting a Request cont'd

Enter the rest of the information for your request and hit “Submit”

| Transmission Offering            |  |                                                     |     |                                   |    |               |    |                   |  |                      |     |                    |    |      |    |
|----------------------------------|--|-----------------------------------------------------|-----|-----------------------------------|----|---------------|----|-------------------|--|----------------------|-----|--------------------|----|------|----|
| Create TSR                       |  | <b>Submit</b>                                       |     | Prev Time                         |    | Next Time     |    | Audit             |  | Close                |     |                    |    |      |    |
| <b>PostingRef</b>                |  | 477832694                                           |     |                                   |    |               |    | <b>Path</b>       |  | W/BCTC/BCTC - BCTC// |     |                    |    |      |    |
| <b>Provider</b>                  |  | BCTC                                                |     |                                   |    |               |    | <b>POR</b>        |  | BCTC.INTERNAL        |     |                    |    |      |    |
| <b>Seller</b>                    |  | BCTC                                                |     |                                   |    |               |    | <b>POD</b>        |  | BCTC.INTERNAL        |     |                    |    |      |    |
| <b>Duns</b>                      |  | 205147817                                           |     |                                   |    |               |    | <b>Interface</b>  |  |                      |     |                    |    |      |    |
| <b>Offer Start Time</b>          |  | Year                                                | Mon | Day                               | H  | M             | TZ | <b>Start Time</b> |  | Year                 | Mon | Day                | H  | M    | TZ |
|                                  |  | 2006                                                | 11  | 09                                | 00 | 00            | PS |                   |  | 2006                 | 11  | 09                 | 00 | 00   | PS |
| <b>Offer Stop Time</b>           |  | Year                                                | Mon | Day                               | H  | M             | TZ | <b>Stop Time</b>  |  | Year                 | Mon | Day                | H  | M    | TZ |
|                                  |  | 2006                                                | 11  | 10                                | 00 | 00            | PS |                   |  | 2006                 | 11  | 10                 | 00 | 00   | PS |
| <b>Ceiling Price</b>             |  | 5.30                                                |     |                                   |    |               |    |                   |  |                      |     | <b>Capacity</b>    |    | 3000 |    |
| <b>Price Units</b>               |  | \$CDN/MWh                                           |     |                                   |    |               |    |                   |  |                      |     | <b>Offer Price</b> |    | 5.30 |    |
| <b>Transmission Service:</b>     |  |                                                     |     |                                   |    |               |    |                   |  |                      |     |                    |    |      |    |
| <b>Increment</b>                 |  | <b>Class</b>                                        |     | <b>Type</b>                       |    | <b>Period</b> |    | <b>Window</b>     |  | <b>Subclass</b>      |     |                    |    |      |    |
| DAILY                            |  | NON-FIRM                                            |     | POINT_TO_POINT                    |    | FULL_PERIOD   |    | FIXED             |  |                      |     |                    |    |      |    |
| <b>Anc Svc Req</b>               |  |                                                     |     |                                   |    |               |    |                   |  |                      |     |                    |    |      |    |
| <b>Sale Ref</b>                  |  |                                                     |     |                                   |    |               |    |                   |  |                      |     |                    |    |      |    |
| <b>Nerc Curtailment Priority</b> |  | 1                                                   |     | <b>Other Curtailment Priority</b> |    |               |    |                   |  |                      |     |                    |    |      |    |
| <b>Service Description</b>       |  | DAILY, NON-FIRM, POINT_TO_POINT, FULL_PERIOD, FIXED |     |                                   |    |               |    |                   |  |                      |     |                    |    |      |    |
| <b>Seller Comments</b>           |  |                                                     |     |                                   |    |               |    |                   |  |                      |     |                    |    |      |    |
| <b>Last Updated</b>              |  | 2006-10-10 07:38:33 PD                              |     |                                   |    |               |    |                   |  |                      |     |                    |    |      |    |



## OASIS Status Definitions

**QUEUED** – initial status assigned by OASIS on receipt

**WITHDRAWN** – assigned during the evaluation process to indicate said request has been withdrawn

**ACCEPTED** – assigned to indicate the service request has been accepted

**RECEIVED** – assigned to acknowledge queued request and indicate the request is being evaluated

**STUDY** – assigned to indicate some level of study is required to evaluate the request



## OASIS Status Definitions cont'd

**COUNTEROFFER** – assigned to indicate that Capacity Granted is less than Capacity Requested

**REBID** – assigned to indicate that a new Bid Price is being proposed

**SUPERSEDED** – assigned to indicate a request which has not yet been confirmed is displaced by a higher priority reservation

**REFUSED** – assigned to indicate service request has been denied due to lack of ATC or received outside of the reservation timelines



## OASIS Status Definitions cont'd

**CONFIRMED** - assigned to indicate the transmission reservation exists

**DECLINED** - assigned to indicate terms and conditions such as Bid Price are unacceptable and that negotiations have been terminated

**INVALID** - assigned to indicate an invalid field is in the request

**DISPLACED** - assigned to indicate a customer has been displaced by a higher priority reservation



## OASIS Status Definitions cont'd

**ANNULLED** – assigned to indicate a confirmed reservation is to be voided as agreed to by both parties, the customer and the provider

**RETRACTED** – assigned to indicate a customer failed to confirm or withdraw the request within the required time period

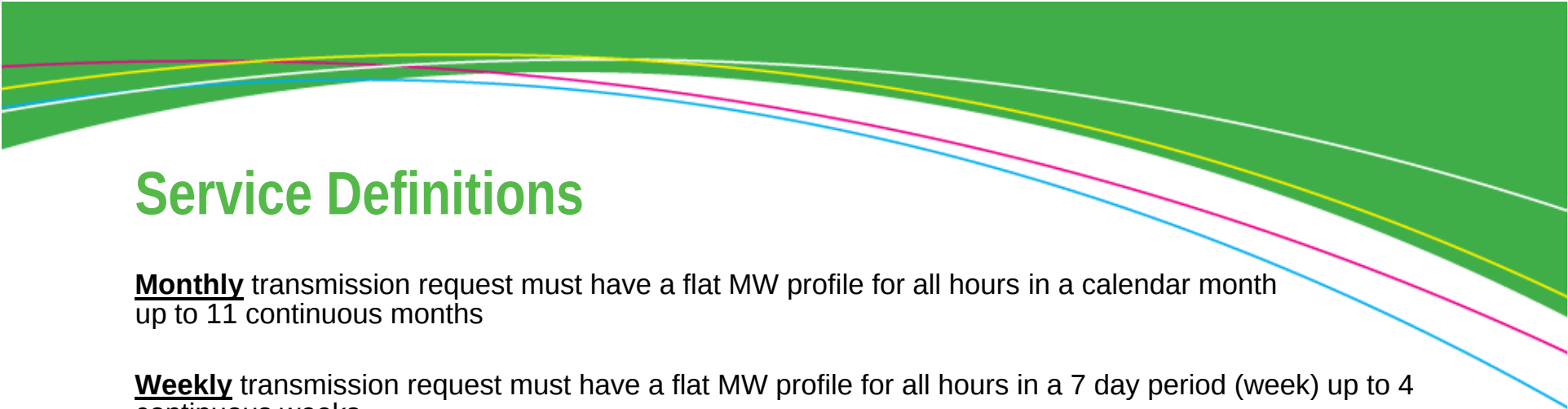


## Reservation Number

Once submitted, you will receive an OASIS reservation number for your request

This number is different than the posting reference number

You will also receive a status of your request



## Service Definitions

**Monthly** transmission request must have a flat MW profile for all hours in a calendar month up to 11 continuous months

**Weekly** transmission request must have a flat MW profile for all hours in a 7 day period (week) up to 4 continuous weeks

**Daily** transmission request must have a flat MW profile for all hours in a calendar day up to 6 continuous days

**Hourly (pre-schedule)** transmission request must have a flat MW profile for one hour up to 24 hours in a single calendar day

**Hourly (real-time)** transmission request must have a flat MW profile for one hour up to 24 hours in a single calendar day

**Long-Term** transmission request must be for periods of one year or longer, and must have a flat MW profile

**Yearly(s)** transmission request is a subset of a long-term transmission request and must have a flat MW profile for all hours of a calendar year e.g. 00:00:00 January 1, 2006 – 00:00:00 January 1, 2007

# Scheduling Submission Timelines

## In general requests for:

- **Monthly** service shall be submitted no earlier than sixty (60) days before service is to commence
- **Weekly** service shall be submitted no earlier than fourteen (14) days before service is to commence
- **Daily** service shall be submitted no earlier than two (2) Working Days before service is to commence
- **Hourly** service for Tuesday to Friday shall be submitted no earlier than 00:00:00 the Working Day before service is to commence. Request for hourly service for Saturday shall be submitted no earlier than 00:00:00 the preceding Thursday. Request for hourly service for Sunday and Monday shall be submitted no earlier than 00:00:00 the preceding Friday.
- Holidays, as posted on OASIS, will affect the aforementioned bidding windows for the earliest submission timeline for hourly and daily service. For example, if a NERC holiday falls on Monday, transmission requests for hourly service can be submitted as early as 00:00:00 Friday for the following Tuesday.

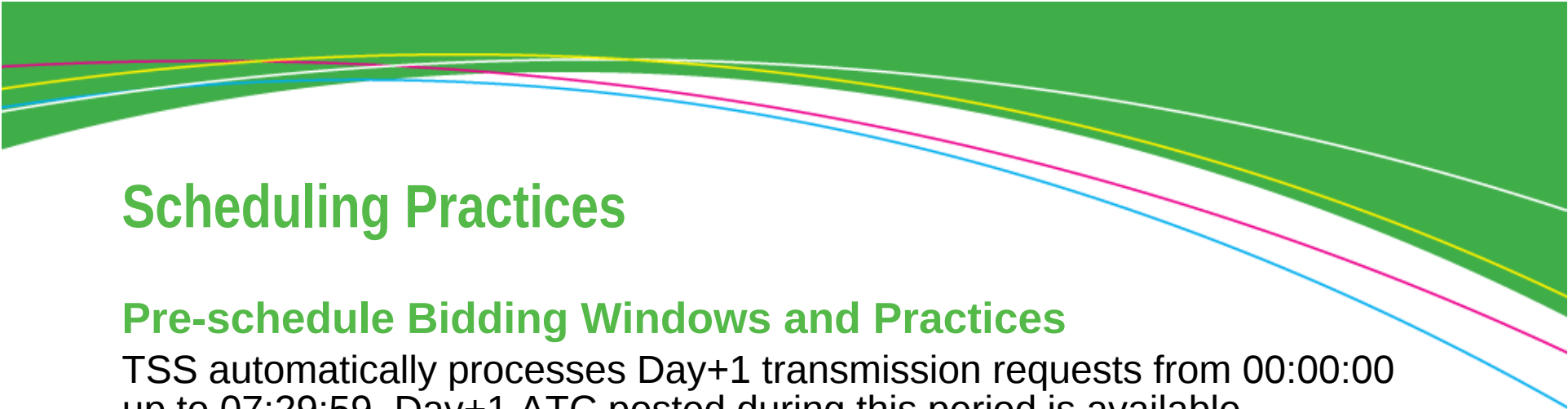
Industry Standards have been developed to accommodate entities that operate on a 5-day basis. Thus, BCTC has implemented “Extended Windows” to accommodate this Standard, as indicated above in the example of hourly service.

# Scheduling Confirmation Timelines

BCTC has reduced confirmation timelines to accommodate industry energy scheduling practices

**Confirmation Timeline Table**

| Class    | Service Increment | Time QUEUED Prior to start | Customer Confirmation Limit after Accepted |
|----------|-------------------|----------------------------|--------------------------------------------|
| Non-Firm | Hourly            | <> 1 Hour                  | 5 minutes                                  |
| Non-Firm | Hourly            | Day ahead                  | 10 minutes                                 |
| Non-Firm | Daily             | N/A                        | 10 minutes                                 |
| Non-Firm | Weekly            | N/A                        | 30 minutes                                 |
| Non-Firm | Monthly           | N/A                        | 2 hours                                    |
| Firm     | Hourly            | <> 1 Hour                  | 5 minutes                                  |
| Firm     | Hourly            | Day ahead                  | 10 minutes                                 |
| Firm     | Daily             | N/A                        | 10 minutes                                 |
| Firm     | Weekly            | N/A                        | 30 minutes                                 |
| Firm     | Monthly           | N/A                        | 2 hours                                    |



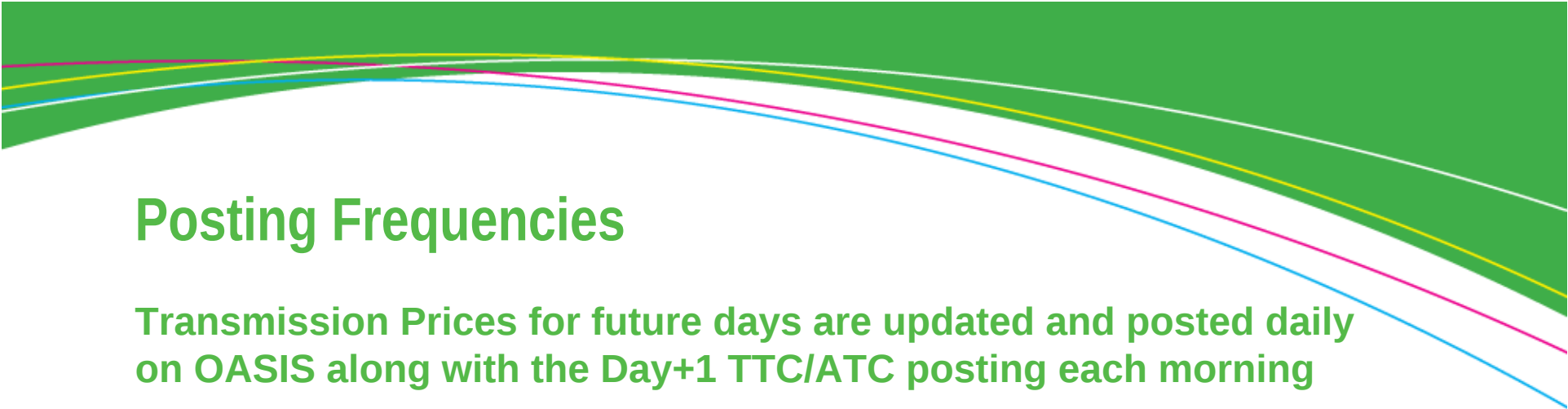
# Scheduling Practices

## Pre-schedule Bidding Windows and Practices

TSS automatically processes Day+1 transmission requests from 00:00:00 up to 07:29:59. Day+1 ATC posted during this period is available immediately for purchase. Request on OASIS – Pre-schedule Midnight Posting, for restrictions related to price.

Between 07:30:00 and 07:59:59 when TTC/ATC and prices are computed and posted, transmission requests are not permitted and any request with a queued time within these times will be deemed INVALID.

Between 17:00:00 and 17:30:00 TTC/ATC values are updated and posted for Day+1 and beyond. Transmission requests are not permitted while the posting is occurring and will be deemed INVALID.



## Posting Frequencies

Transmission Prices for future days are updated and posted daily on OASIS along with the Day+1 TTC/ATC posting each morning

ATCs are posted differently depending on the actual time from a pre-schedule (Day +1) perspective

ATCs are posted as frequently as possible, but at least every 5 minutes from a real-time perspective

For more information on posting frequencies, refer to BCTC Business Practice Section 4, which is located on our website at <http://www.bctc.com/NR/rdonlyres/110565A7-54CB-4579-8A21-CC062A198C8D/0/042006Mar1FinalSection4.pdf>.



## Short-Term Pricing Methodology

All Short-Term PTP transmission service prices are uploaded to OASIS each morning as mentioned previously.

### General Price Concepts:

- The price for Short-Term (ST) PTP transmission service to load serving points within BC are NOT discounted
- Export and wheelthrough PTP transmission services are discounted

# Discounting Price Methodology

Discounted ST Hourly Service is a minimum price of \$0\* and a maximum price of the non-discounted hourly price for ST Service

- Where:
  - Exchange rate is the daily Bank of Canada exchange rate for converting Mid-C price to the Canadian equivalent
  - AESO price is a volume-weighted average of hourly prices for each previous day's HLH and LLH period
  - Mid-C price is based on the published Firm index provided by Dow Jones for each previous day's HLH and LLH period
  - Loss Factor for BPA is determined by BPAT's loss factor to Mid-C
  - Loss Factor for Alberta is determined by the loss factors provided by AESO at <http://www.aeso.ca/transmission/144.html>
- All inputs to calculate Day+1 price are taken from Day-1 unless Day-1 data points are absent, in which case the last available values are used

\*Minimum charge of \$55.00 per transaction applies when transmission charge plus RS03 is less than \$55.00

# Short-Term Pricing Methodology

Hourly Firm service price is calculated using the following formulas:

- For transactions delivering to US, the Discounted ST Firm Price for Hourly Service is:  
$$[\text{Mid-C Price} * \text{exchange rate}] - (\text{AESO Price} * \text{Loss Factor for AB} * \text{Loss Factor for BPA}) / 4$$
- For transactions delivering to Alberta, the Discounted ST Firm Price for Hourly Service is:  
$$[\text{AESO Price} - (\text{Mid-C} * \text{exchange rate} * \text{Loss Factors for AB} * \text{Loss Factor for BPA})] / 4$$
- The Discounted ST Firm Hourly Service Prices are bounded by a minimum of \$0 and a maximum that equals the non-discounted hourly price for ST Service.



# Short-Term Pricing Methodology

## Hourly Non-Firm Service Price

- For transactions delivering to US, the Discounted ST Price for Hourly Non-Firm Service is:  
Discounted Hourly Firm Service Price for US – \$1/MW
- For transactions delivering to Alberta, the Discounted ST Price for Hourly Non-Firm Service is:  
Discounted Hourly Firm Service Price for Alberta – \$1/MW
- The Discounted ST Non-Firm Hourly Service Prices are bounded by a minimum of \$0 and a maximum that equals the non-discounted hourly price for ST Service.



## Short-Term Pricing Methodology

### Daily Firm and Non-Firm Service Price

- The Discounted ST Firm Price for Daily Service is equal to the average of the 24 Discounted ST Firm Prices for Hourly Service.
- The Discounted ST Non-Firm Price for Daily Service is equal to the Discounted ST Firm Price for Daily Service minus \$1/MW.



## Short-Term Pricing Methodology

### Weekly Firm and Non-Firm Formulae

Week 1:

- Firm equals Discounted ST Firm Price for Daily Service +  $\frac{1}{2}$  of (non-discounted Hourly price for ST Service – Discounted ST Firm Price for Daily Service)
- Non-Firm equals Discounted ST Firm Price for Daily Service minus \$1/MW

Week 2+:

- Firm and Non-Firm equals non-discounted Hourly price for ST Service



# Displacements

Displacement occurs when a request for transmission service of a higher priority (longer duration), regardless of MW amount, is subsequently received and which could potentially displace a lower priority request.

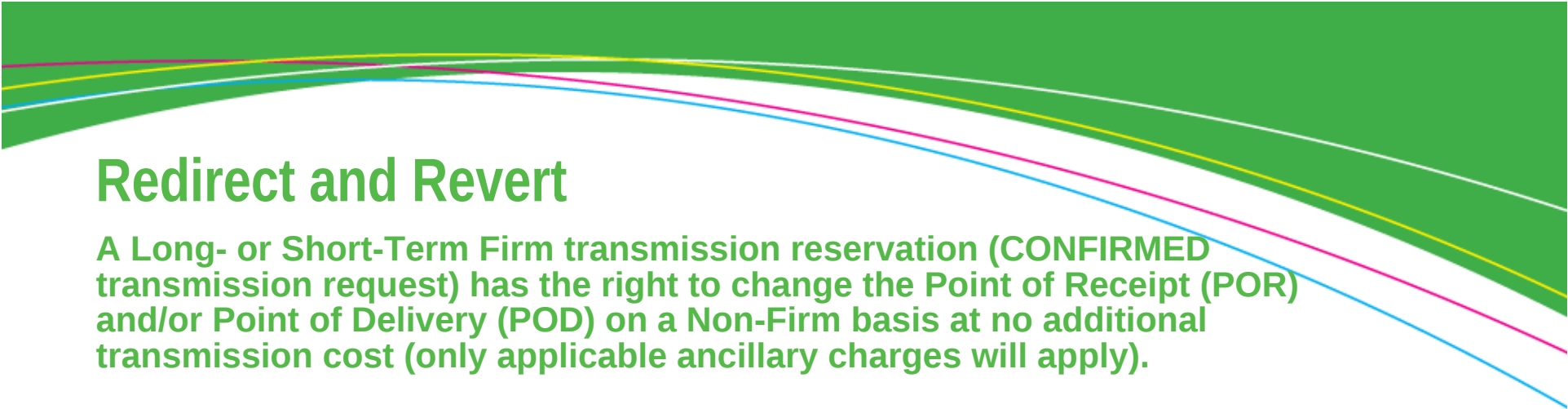
- Higher priority request is received during conditional periods where there is limited ATC

Under certain competing circumstances transmission requests receive Right of First Refusal (ROFR)

- ROFR based on duration or price

The displacement process only occurs in pre-schedule

This functionality will be described in further detail subsequent in this presentation



## Redirect and Revert

A Long- or Short-Term Firm transmission reservation (CONFIRMED transmission request) has the right to change the Point of Receipt (POR) and/or Point of Delivery (POD) on a Non-Firm basis at no additional transmission cost (only applicable ancillary charges will apply).

The new Non-Firm service is classed as Secondary, and is therefore the first service to be curtailed and/or interrupted to accommodate other Non-Firm and Firm transmission requests.

Once the POR/POD has been changed, the owner of the Secondary transmission service retains the right to re-designate back to the original Firm service specifications at any time within the Transmission Scheduling Timelines (refer to Section 5.3).

**Note:** When a request for Secondary (Redirect) is CONFIRMED, BCTC leaves the original Firm reservation whole but decrements its Available Energy Capacity (AEC) by the amount of the Redirect. This secures the ability to revert back to the original Firm service if requested as well as ensuring that the redirected Firm amount cannot be scheduled on.



## Redirect and Revert

Changing from Firm to Secondary and changing from Secondary back to Firm are both achieved by submitting a Redirect on OASIS

### Redirects are subject to the following rules:

- All Redirect transmission requests must be Pre-confirmed.
- The transmission request should have a price equal to zero and a note in the Customer comments field stating the request number of the original request.
- A Redirect to Secondary can be made for a portion of the Firm transmission reservations' reserve capacity and/or a portion of the time period.
- Customers who have Firm transmission are permitted to create one or more secondary paths of alternate POR/POD. However, they will need a Redirect for each new path.

# Redirect and Revert

To redirect back to Firm service the Redirect request must fulfill the following conditions:

- Service must be Firm; and
- POR/POD must be identical to that of the original request.

To accomplish this task the Customer must go to its CONFIRMED redirected transmission reservation, select the “Redirect TSR” button at the top of the window and change POR, POD, path, service and/or price back to the original. The Customer should then submit these changes.

Partial reverts (MW and duration) are allowed.

Redirects are subject to Transmission Scheduling Timelines (refer to Section 5.3).

A Customer who has purchased transmission service at a discount is prohibited from changing the POD to a POD that BCTC does not offer at a discount. The REDIRECT will have the status INVALID applied. Therefore, Customers who want to change to a non-discounted POD must have purchased the original service at the Tariff maximum rate.

Redirects and reverts will be refused if there is insufficient AEC on the reservation to allow the redirect or revert.

# Resale and Reassignment

Another right owners of transmission service have is being able to sell, assign, or transfer all or a portion of their rights under their Umbrella or Service Agreements, but only to another eligible customer

**Compensation to the reseller shall not exceed the higher of:**

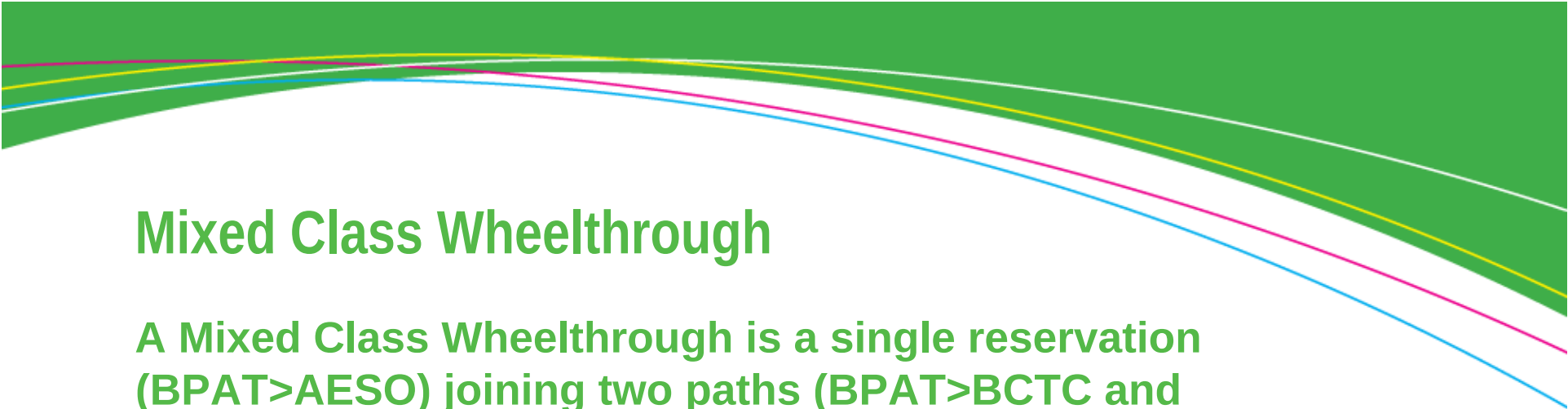
1. The original rate paid by the reseller;
2. The transmission provider's maximum rate on file at the time of the assignment; or
3. The reseller's opportunity cost capped at the transmission provider's cost of expansion.

**When purchasing reassigned transmission, the Assignee (buyer) will receive the same services and priority as did the original Customer (seller) and the priority of service for the Assignee will be the same as that of the reseller.**

**If the Assignee requests a change in service, the transmission request will be processed as per business practices associated with changing a Transmission Reservation (Redirect).**

**A Customer may only reassign CONFIRMED transmission reservations (not ACCEPTED, COUNTEROFFER, RECEIVED or STUDY). And can do so in one of two ways:**

- 1. Post for Resale or Resale to One Purchaser on OASIS; or
- 2. Blind Reassignment off OASIS.

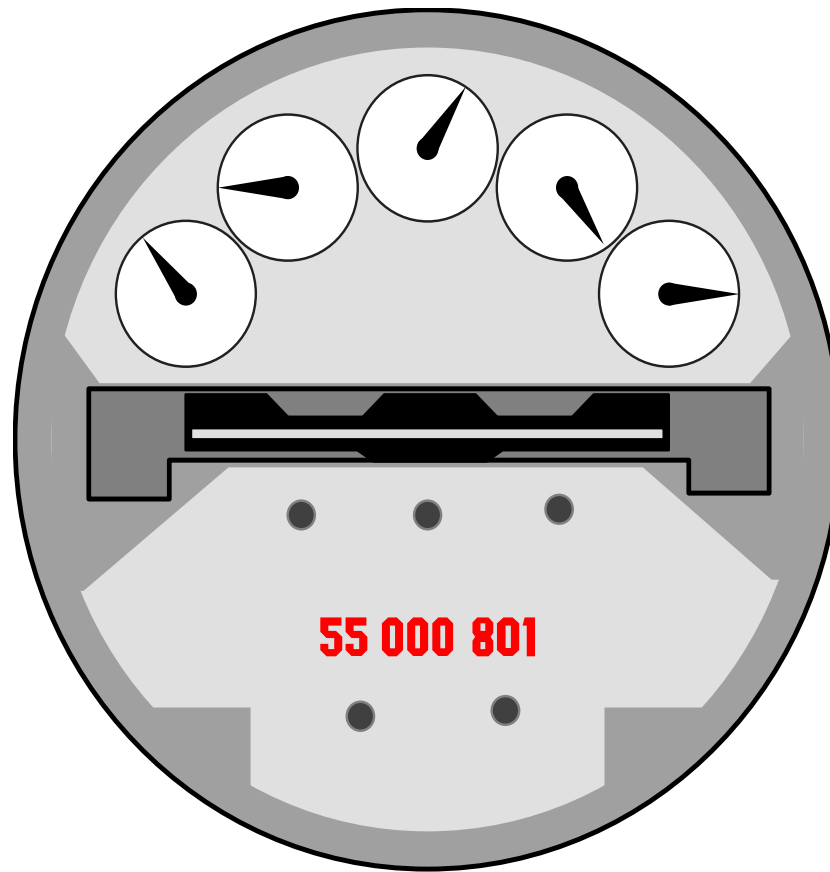


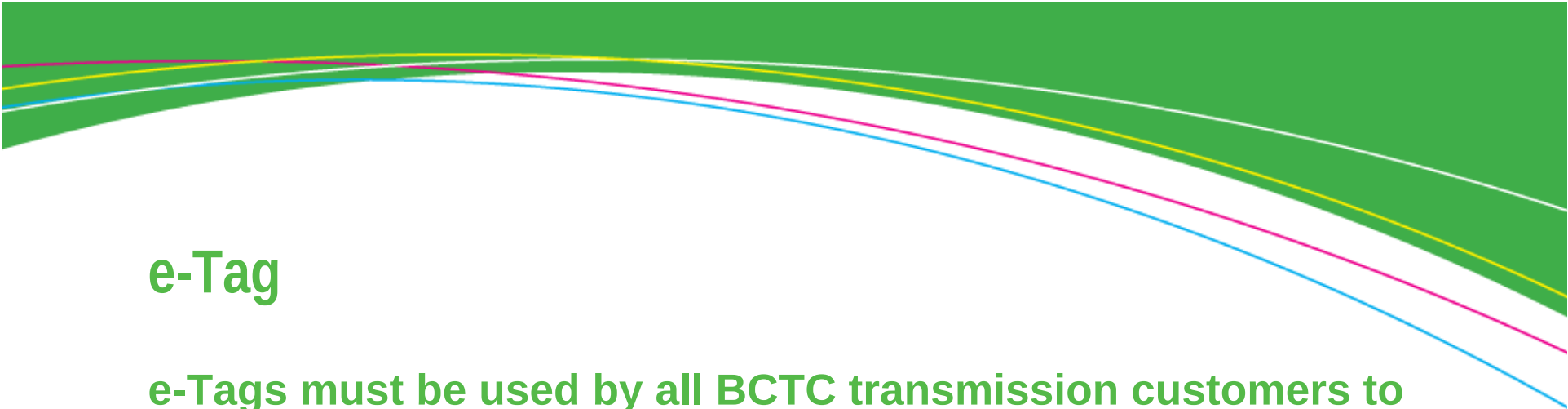
## Mixed Class Wheelthrough

A Mixed Class Wheelthrough is a single reservation (BPAT>AESO) joining two paths (BPAT>BCTC and BCTC>AESO)

Mixed Class Wheelthrough is offered at the same firm price as BPAT > AESO wheelthrough service

## Scheduling Energy

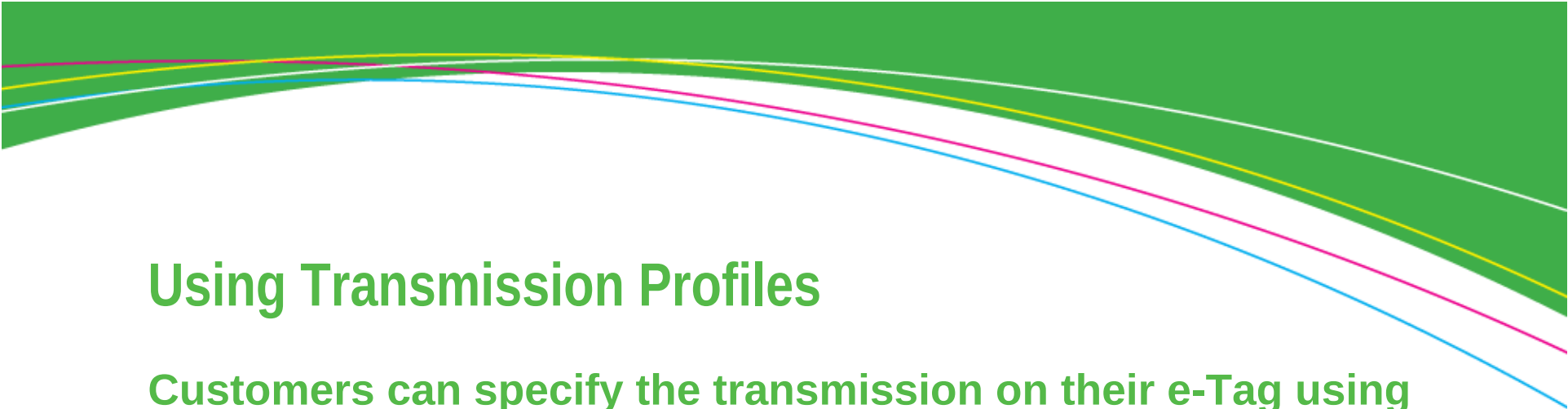




## e-Tag

e-Tags must be used by all BCTC transmission customers to communicate and approve all energy schedules for a given hour

BCTC utilizes ETS and TSS to process e-Tags received on behalf of its customers



## Using Transmission Profiles

Customers can specify the transmission on their e-Tag using one of three different approaches:

- Specific OASIS reservations on the tag
- The Blanket feature to utilize all OASIS reservations from a specific class of transmission to support the capacity committed in an associated profile
- The Super-Blanket feature to utilize all OASIS reservations from all classes of transmission to support the capacity committed in an associated profile

# Entering an e-Tag

Enter Tag
Enter Delayed Tag
Save as Template
Customize Lists
Clear Form
Help

| Tag Information |      |          |      |
|-----------------|------|----------|------|
| GCA             | PSE  | Tag Code | LCA  |
| BCTC            | BCTC | SCCS053  | BPAT |

Time Zone PD
  
☒ This is a test tag
  
☐ Link this tag to its predecessor
  
Transaction type:
  
☒ Normal
☐ Emergency
☐ Schedule
  
☐ Dyn. Sched.
☐ Loss Supply

| Contact Information |                          |  |  |  |
|---------------------|--------------------------|--|--|--|
| PSE Code            | BCTC                     |  |  |  |
| PSE Contact         | BONNIE_MITCHELL          |  |  |  |
| PSE Phone           | (604)473-2723            |  |  |  |
| PSE Fax             | (604)696-9886            |  |  |  |
| Gen Contact         | Control Area Preschedule |  |  |  |
| Gen Phone           | (604)473-2723            |  |  |  |
| Gen Fax             | (604)696-9886            |  |  |  |
| Load Contact        | Tagging Mailbox          |  |  |  |
| Load Phone          | (360)418-2878            |  |  |  |
| Load Fax            | (360)418-8740            |  |  |  |
| Comment             | tssdst                   |  |  |  |
| Contract No.        |                          |  |  |  |

| Market Path |         |          |      |                       |
|-------------|---------|----------|------|-----------------------|
| PSE         | Product | Contract | Misc | Sel                   |
| BCPS01      | G-NF    | SPIN     | No   | <input type="radio"/> |
| BPAT        | G-NF    |          | No   | <input type="radio"/> |

Insert Rows
Insert Above
Insert Below
Delete Row
Clear

Each tag gets a unique tag identifier serial number

| Physical Path |      |        |                       |              |                |          |      |      |                       |
|---------------|------|--------|-----------------------|--------------|----------------|----------|------|------|-----------------------|
| CA            | TP   | PSE    | POR                   | POD          | Sched Entities | Contract | Misc | Loss | Sel                   |
| BCTC          | Gen  | BCPS01 | Source: BCHA          |              |                |          | No   |      |                       |
|               | BCTC | BCPS01 | KI                    | BC.US.Border | BCTC(TP)       |          | No   |      | <input type="radio"/> |
| BPAT          | Load | BPAT   | Sink: BPAT-CA-Default |              |                |          | No   |      |                       |

# Contact Information

Enter Tag
Enter Delayed Tag
Save as Template
Customize Lists
Clear Form
Help

| Tag Information |      |          |      |
|-----------------|------|----------|------|
| GCA             | PSE  | Tag Code | LCA  |
| BCTC            | BCTC | SCCS053  | BPAT |

**Contact Information**
PSE Code: BCTC  
PSE Contact: BONNIE\_MITCHELL  
PSE Phone: (604)473-2723  
PSE Fax: (604)696-9886  
Gen Contact: Control Area Preschedule  
Gen Phone: (604)473-2723  
Gen Fax: (604)696-9886  
Load Contact: Tagging Mailbox  
Load Phone: (360)418-2878  
Load Fax: (360)418-8740  
Comment: tssdst  
Contract No.:  
Clear

Time Zone: PD
☒ This is a test tag  
☐ Link this tag to its predecessor  
Transaction type:  
☒ Normal    ☐ Emergency    ☐ Schedule  
☐ Dyn. Sched.    ☐ Loss Supply

| Market Path |         |          |  |
|-------------|---------|----------|--|
| PSE         | Product | Contract |  |
| BCPS01 *    | G-NF *  | SPIN     |  |
| BPAT *      | G-NF *  |          |  |

Insert Rows
Insert Above
Insert Below
Delete

**Contact information should be automatically submitted**

| Physical Path |        |        |                         |                |                |          |      |
|---------------|--------|--------|-------------------------|----------------|----------------|----------|------|
| CA            | TP     | PSE    | POR                     | POD            | Sched Entities | Contract | Misc |
| BCTC *        | Gen    | BCPS01 | Source: BCHA *          |                |                |          | No   |
|               | BCTC * | BCPS01 | KI *                    | BC.US.Border * | BCTC(TP) *     |          | No   |
| BPAT *        | Load   | BPAT   | Sink: BPAT-CA-Default * |                |                |          | No   |

# Market Path (Customers)

Enter Tag
Enter Delayed Tag
Save as Template
Customize Lists
Clear Form
Help

### Tag Information

| GCA  | PSE  | Tag Code | LCA  |
|------|------|----------|------|
| BCTC | BCTC | SCCS055  | BPAT |

### Contact Information

|              |                          |
|--------------|--------------------------|
| PSE Code     | BCTC                     |
| PSE Contact  | BONNIE_MITCHELL          |
| PSE Phone    | (604)473-2723            |
| PSE Fax      | (604)696-9886            |
| Gen Contact  | Control Area Preschedule |
| Gen Phone    | (604)473-2723            |
| Gen Fax      | (604)696-9886            |
| Load Contact | Tagging Mailbox          |
| Load Phone   | (360)418-2878            |
| Load Fax     | (360)418-8740            |
| Comment      | tssdst                   |
| Contract No. |                          |

### Market Path

| PSE      | Product | Contract | Misc |
|----------|---------|----------|------|
| BCPS01 * | G-F *   |          | No   |
| BPAT *   | G-F *   |          | No   |

### Physical Path

| CA     | TP     | PSE    | POR            | POD            | Sched Entities | Contract | Misc | Loss |
|--------|--------|--------|----------------|----------------|----------------|----------|------|------|
| BCTC * | Gen    | BCPS01 | Source: BCHA * |                |                |          | No   |      |
|        | BCTC * | BCPS01 | KI *           | BC.US.Border * | BCTC(TP) *     |          | No   |      |

Time Zone PD
☒ This is a test tag
☐ Link this tag to its predecessor
Transaction type:
☒ Normal
☐ Emergency
☐ Schedule
☐ Dyn. Sched.
☐ Loss Supply

Insert Rows
Insert Above
Insert Below
Delete Row

Clear

Identifies which PSEs are responsible for the flow of the energy

# Physical Path (Transmission Lines)

| Contact Information |                          |
|---------------------|--------------------------|
| PSE Code            | BCTC                     |
| PSE Contact         | BONNIE_MITCHELL          |
| PSE Phone           | (604)473-2723            |
| PSE Fax             | (604)696-9886            |
| Gen Contact         | Control Area Preschedule |
| Gen Phone           | (604)473-2723            |
| Gen Fax             | (604)696-9886            |
| Load Contact        | Tagging Mailbox          |
| Load Phone          | (360)418-2878            |
| Load Fax            | (360)418-8740            |
| Comment             | tsdst                    |
| Contract No.        |                          |
| Clear               |                          |

☐ Link this tag to its predecessor

Transaction type:

- ☒ Normal
 ☐ Emergency
 ☐ Schedule  
☐ Dyn. Sched.
 ☐ Loss Supply

| Market Path |         |              |              |                                  |
|-------------|---------|--------------|--------------|----------------------------------|
| PSE         | Product | Contract     | Misc         | Sel                              |
| BCPS01 *    | G-F *   |              | No           | <input type="radio"/>            |
| BPAT *      | G-F *   |              | No           | <input checked="" type="radio"/> |
| Insert Rows |         | Insert Above | Insert Below | Delete Row Clear                 |

Indicates the physical path the energy is scheduled to flow (source to sink)

| Physical Path |        |              |                         |                |                |            |      |       |                                  |
|---------------|--------|--------------|-------------------------|----------------|----------------|------------|------|-------|----------------------------------|
| CA            | TP     | PSE          | POR                     | POD            | Sched Entities | Contract   | Misc | Loss  | Sel                              |
| BCTC *        | Gen    | BCPS01       | Source: BCHA *          |                |                |            | No   |       |                                  |
|               | BCTC * | BCPS01       | KI *                    | BC.US.Border * | BCTC(TP)       |            | No   |       | <input checked="" type="radio"/> |
| BPAT *        | Load   | BPAT         | Sink: BPAT-CA-Default * |                |                |            | No   |       |                                  |
| Insert Rows   |        | Insert Above |                         | Insert Below   |                | Delete Row |      | Clear |                                  |

Specify provider losses in physical path and enter generation profile below then click "Add Loss profile" to create profiles in transmission segments

# Energy Profile

| Physical Path |        |        |                         |                |                |          |      |      |     |  |
|---------------|--------|--------|-------------------------|----------------|----------------|----------|------|------|-----|--|
| CA            | TP     | PSE    | POR                     | POD            | Sched Entities | Contract | Misc | Loss | Sel |  |
| BCTC *        | Gen    | BCPS01 | Source: BCHA            |                |                |          | No   |      |     |  |
|               | BCTC * | BCPS01 | KI *                    | BC.US.Border * | BCTC(TP) *     |          | No   |      |     |  |
| BPAT *        | Load   | BPAT   | Sink: BPAT-CA-Default * |                |                |          | No   |      |     |  |

Specify provider losses in physical path and enter generation profile below then click "Add Loss Profile" to create profiles in transmission segments

| Profile Dates                                                                                                                                                                                                                                                                        |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Start Date                                                                                                                                                                                                                                                                           | 11/19/2006 * |
| Stop Date                                                                                                                                                                                                                                                                            | 11/19/2006 * |
| <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W <input type="checkbox"/> T <input type="checkbox"/> F <input type="checkbox"/> S <input type="checkbox"/> All <input type="button" value="Add Loss Profile"/> |              |

| Energy Profile (out of) |       |    |               |      |                                  |
|-------------------------|-------|----|---------------|------|----------------------------------|
| Start                   | Stop  | MW | Ramp Duration |      | Sel                              |
|                         |       |    | Start         | Stop |                                  |
| 6:00                    | 22:00 | 5  |               |      | <input checked="" type="radio"/> |
|                         |       |    |               |      | <input type="radio"/>            |
|                         |       |    |               |      | <input type="radio"/>            |
|                         |       |    |               |      | <input type="radio"/>            |

Indicates the profile for the energy transaction

# Transmission Reservations

**Transmission Allocation**

|             |              |                                                  |              |           |                                  |
|-------------|--------------|--------------------------------------------------|--------------|-----------|----------------------------------|
| <b>TP</b>   | <b>Owner</b> | <b>Product</b>                                   | <b>OASIS</b> | <b>MW</b> | <b>Sel</b>                       |
| BCTC        | BCPS01 *     | 7-F *                                            | 1453348      | 5         | <input checked="" type="radio"/> |
| Insert Rows |              | Insert Above   Insert Below   Delete Row   Clear |              |           |                                  |

**Transmission Allocation Profile Dates**

|                                                                                                                                                                                                                                                                                           |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Start Date</b>                                                                                                                                                                                                                                                                         | 11/19/2006 * |
| <b>Stop Date</b>                                                                                                                                                                                                                                                                          | 11/19/2006 * |
| <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W <input type="checkbox"/> T <input type="checkbox"/> F <input type="checkbox"/> S <input type="checkbox"/> All <input type="button" value="Generate T.A. Profile"/> |              |

**Transmission Allocation Profile**

| Start                                              | Stop  | BCTC<br>1453348                                  | Sel                              |
|----------------------------------------------------|-------|--------------------------------------------------|----------------------------------|
| 6:00                                               | 22:00 | 5                                                | <input checked="" type="radio"/> |
|                                                    |       |                                                  | <input type="radio"/>            |
|                                                    |       |                                                  | <input type="radio"/>            |
|                                                    |       |                                                  | <input type="radio"/>            |
| Insert Rows                                        |       | Insert Above   Insert Below   Delete Row   Clear |                                  |
| <input type="button" value="Add Another Profile"/> |       |                                                  |                                  |

User enters the transmission to be used to carry the energy from source to sink



## Valid Transmission

**Transmission reservations identified on an e-Tag must satisfy the following conditions:**

- be confirmed in TSS
- in aggregate, have sufficient AEC to accommodate the energy schedule
- must specify wheelthrough or non-wheelthrough transmission reservations in the e-Tag, but not both

**If these conditions are not valid, the e-Tag will be denied**

# Transmission Profile

Transmission Allocation

| TP   | Owner    | Product | OASIS   | MW | Sel                              |
|------|----------|---------|---------|----|----------------------------------|
| BCTC | BCPS01 * | 7-F *   | 1453348 | 5  | <input checked="" type="radio"/> |

Insert Rows
Insert Above
Insert Below
Delete Row
Clear

Transmission Allocation Profile Dates

Start Date
11/19/200E \*

Stop Date
11/19/200E \*

☒ S
☐ M
☐ T
☐ W
☐ T
☐ F
☐ S
☐ All
Generate TA Profile

Transmission Allocation Profile

| Start | Stop  | BCTC    | Sel                   |
|-------|-------|---------|-----------------------|
| 6:00  | 22:00 | 1453348 | 5                     |
|       |       |         | <input type="radio"/> |
|       |       |         | <input type="radio"/> |
|       |       |         | <input type="radio"/> |

Insert Rows
Insert Above
Insert Below
Delete Row
Clear

Add Another Profile

User enters transmission profile dates and hits Generate Profile

## Generated Transmission Profile

| Transmission Allocation                                                                                                                                                                                           |          |         |         |    |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|---------|----|----------------------------------|
| TP                                                                                                                                                                                                                | Owner    | Product | OASIS   | MW | Sel                              |
| BCTC                                                                                                                                                                                                              | BCPS01 * | 7-F *   | 1453348 | 5  | <input checked="" type="radio"/> |
| <input type="button" value="Insert Rows"/> <input type="button" value="Insert Above"/> <input type="button" value="Insert Below"/> <input type="button" value="Delete Row"/> <input type="button" value="Clear"/> |          |         |         |    |                                  |

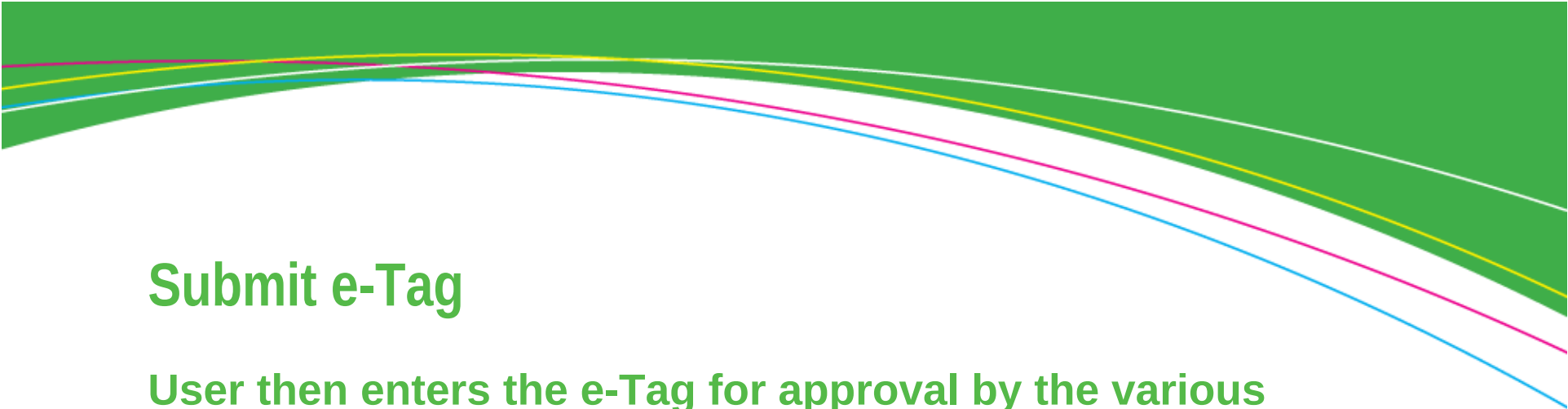
  

| Transmission Allocation Profile Dates                                                                                                                                                                                                                                                   |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Start Date                                                                                                                                                                                                                                                                              | 11/19/200E * |
| Stop Date                                                                                                                                                                                                                                                                               | 11/19/200E * |
| <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W <input type="checkbox"/> T <input type="checkbox"/> F <input type="checkbox"/> S <input type="checkbox"/> All <input type="button" value="Generate TA Profile"/> |              |

| Transmission Allocation Profile                                                                                                                                                                                   |       |                 |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|----------------------------------|
| Start                                                                                                                                                                                                             | Stop  | BCTC<br>1453348 | Sel                              |
| 6:00                                                                                                                                                                                                              | 22:00 | 5               | <input checked="" type="radio"/> |
|                                                                                                                                                                                                                   |       |                 | <input type="radio"/>            |
|                                                                                                                                                                                                                   |       |                 | <input type="radio"/>            |
|                                                                                                                                                                                                                   |       |                 | <input type="radio"/>            |
| <input type="button" value="Insert Rows"/> <input type="button" value="Insert Above"/> <input type="button" value="Insert Below"/> <input type="button" value="Delete Row"/> <input type="button" value="Clear"/> |       |                 |                                  |
| <input type="button" value="Add Another Profile"/>                                                                                                                                                                |       |                 |                                  |

**Transmission  
Profile is  
automatically  
generated**



## Submit e-Tag

User then enters the e-Tag for approval by the various approval entities listed on the e-Tag

e-Tag vendor software packages provide various validity checks to ensure e-Tags are functionally correct before submittal

# Submitting e-Tag

**Tag Entry Form**

**Enter Tag** | Enter Delayed Tag | Save as Template | Customize Lists | Clear Form | Help

| Tag Information |      |          |      |
|-----------------|------|----------|------|
| GCA             | PSE  | Tag Code | LCA  |
| BCTC            | BCTC | SCCS055  | BPAT |

| Contact Information |                 |
|---------------------|-----------------|
| PSE Code            | BCTC            |
| PSE Contact         | BONNIE_MITCHELL |
| PSE Phone           | (604)473-2723   |
| PSE Fax             | (604)696-9886   |

Time Zone: PD

☒ This is a test tag

☐ Link this tag to its predecessor

Transaction type:

☒ Normal ☐ Emergency ☐ Schedule

☐ Dyn. Sched. ☐ Loss Supply

## Submitting e-Tag

| Tag Information |      |          |      |
|-----------------|------|----------|------|
| GCA             | PSE  | Tag Code | LCA  |
| BCTC            | BCTC | SCCS055  | BPAT |

Time Zone: **PD**    This is a test tag  
Transaction type: **Normal**  
Tag Original MWH at generator: **80**

| Contact Information |                          |
|---------------------|--------------------------|
| PSE Code            | BCTC                     |
| PSE Contact         | BONNIE MITCHELL          |
| PSE Phone           | (604)473-2723            |
| PSE Fax             | (604)696-9886            |
| Gen Contact         | Control Area Preschedule |
| Gen Phone           | (604)473-2723            |
| Gen Fax             | (604)696-9886            |
| Load Contact        | Tagging Mailbox          |
| Load Phone          | (360)418-2878            |
| Load Fax            | (360)418-8740            |
| Comment             | tssdst                   |

| Market Path |         |          |  |
|-------------|---------|----------|--|
| PSE         | Product | Contract |  |
| BCPS01      | G-F     |          |  |
| BPAT        | G-F     |          |  |

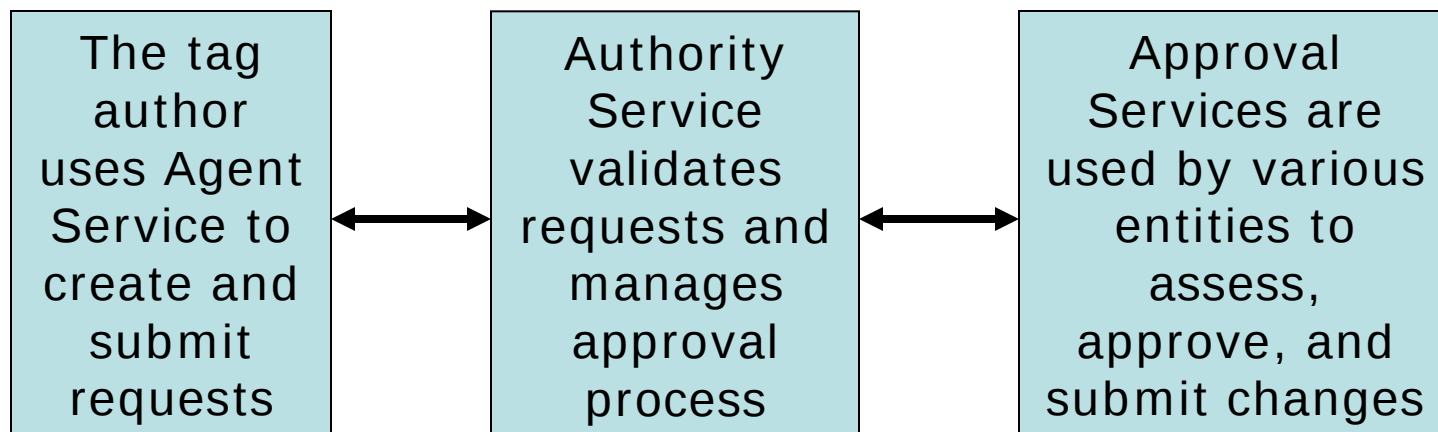
| Physical Path |      |        |     |                              |                |          |
|---------------|------|--------|-----|------------------------------|----------------|----------|
| CA            | TP   | PSE    | POR | POD                          | Sched Entities | Contract |
| BCTC          |      | BCPS01 |     | <b>Source:</b> BCHA          |                |          |
|               | BCTC | BCPS01 | KI  | BC.US.Border                 | BCTC(TP)       |          |
| BPAT          |      | BPAT   |     | <b>Sink:</b> BPAT-CA-Default |                |          |

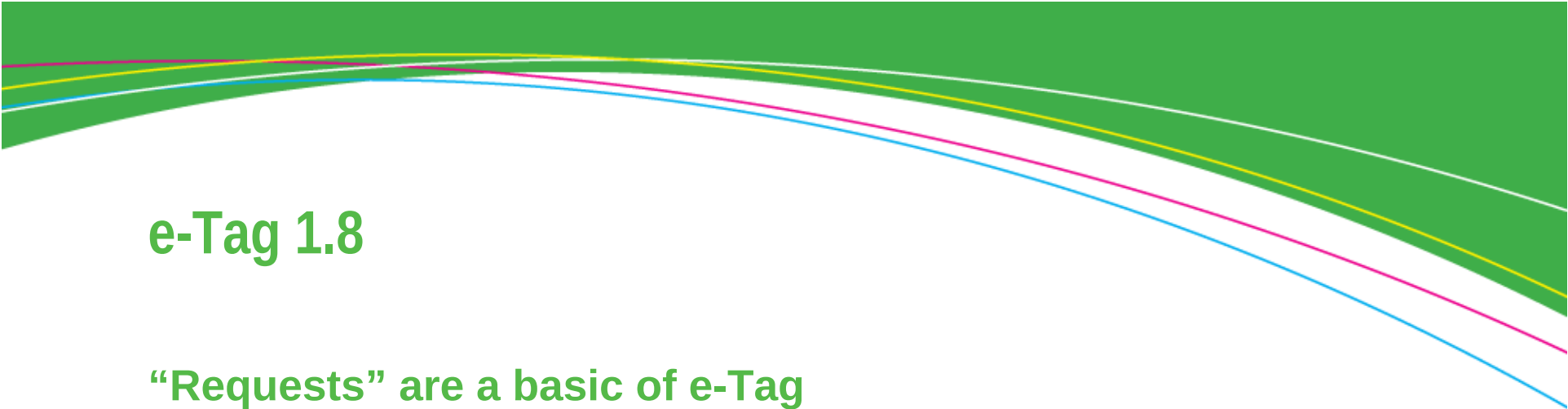
| Profile Dates |            |
|---------------|------------|
| Start Date    | 11/19/2006 |
| Stop Date     | 11/19/2006 |
| <b>S</b>      |            |

Energy Profile (out of 0)

## e-Tag 1.8 – JISWG Industry Tutorial

The basic features of e-Tag 1.8 are similar to the 1.7097 version





## e-Tag 1.8

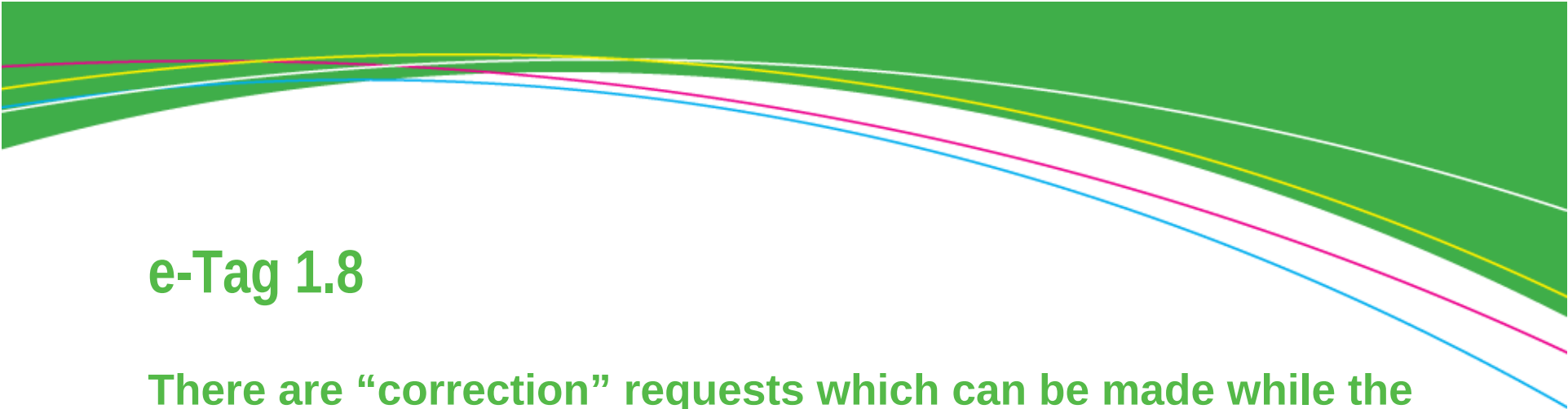
“Requests” are a basic of e-Tag

“New tag” requests are the initial submittal of a Request for Interchange

- once fully approved, it becomes the e-Tag

There are “change” or “adjustment” requests

- a market adjustment and a reliability curtailment are two examples of change requests



## e-Tag 1.8

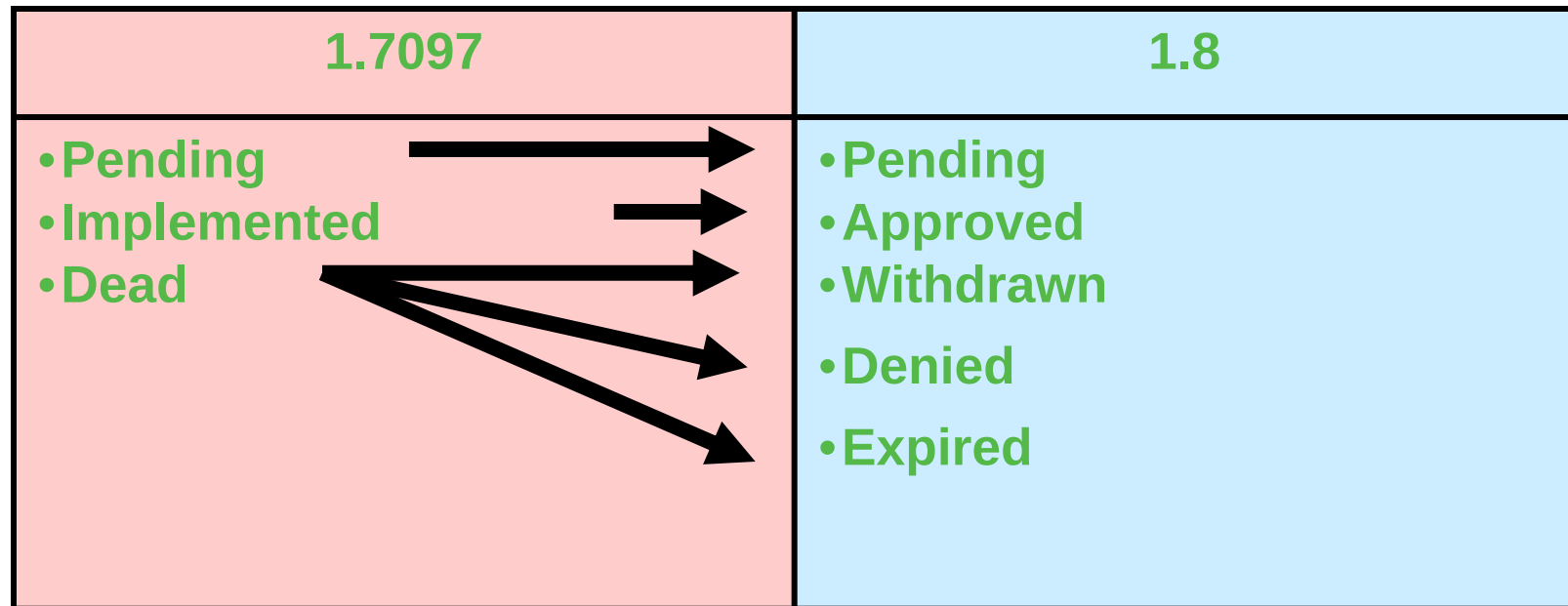
There are “correction” requests which can be made while the overall state is still “PENDING”

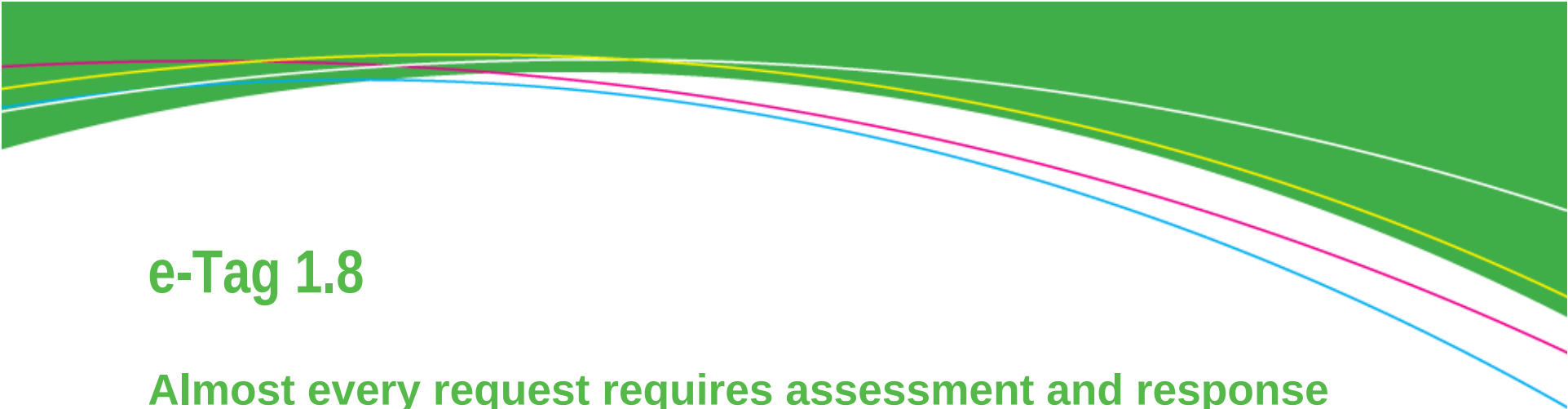
Requests have status assigned by the authority service to describe their overall state

The e-Tag is a collection of one or more associated Requests

# e-Tag 1.8

## Request states





## e-Tag 1.8

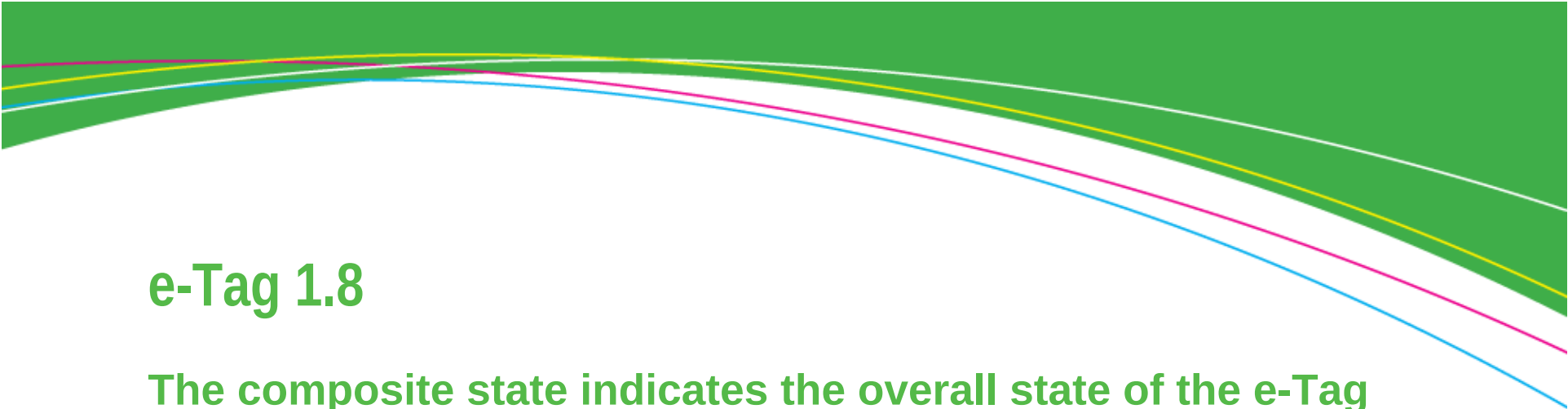
Almost every request requires assessment and response from approval entities

Each approval entity's response is assigned an approval state

# e-Tag 1.8

## Individual Approval States

| 1.7097                                                                                                                | 1.8                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>•NA</li><li>•Pending</li><li>•Approved</li><li>•Denied</li><li>•Study</li></ul> | <ul style="list-style-type: none"><li>•NA</li><li>•Pending</li><li>•Approved</li><li>•Denied</li><li>•Study</li><li>•Expired</li></ul> |

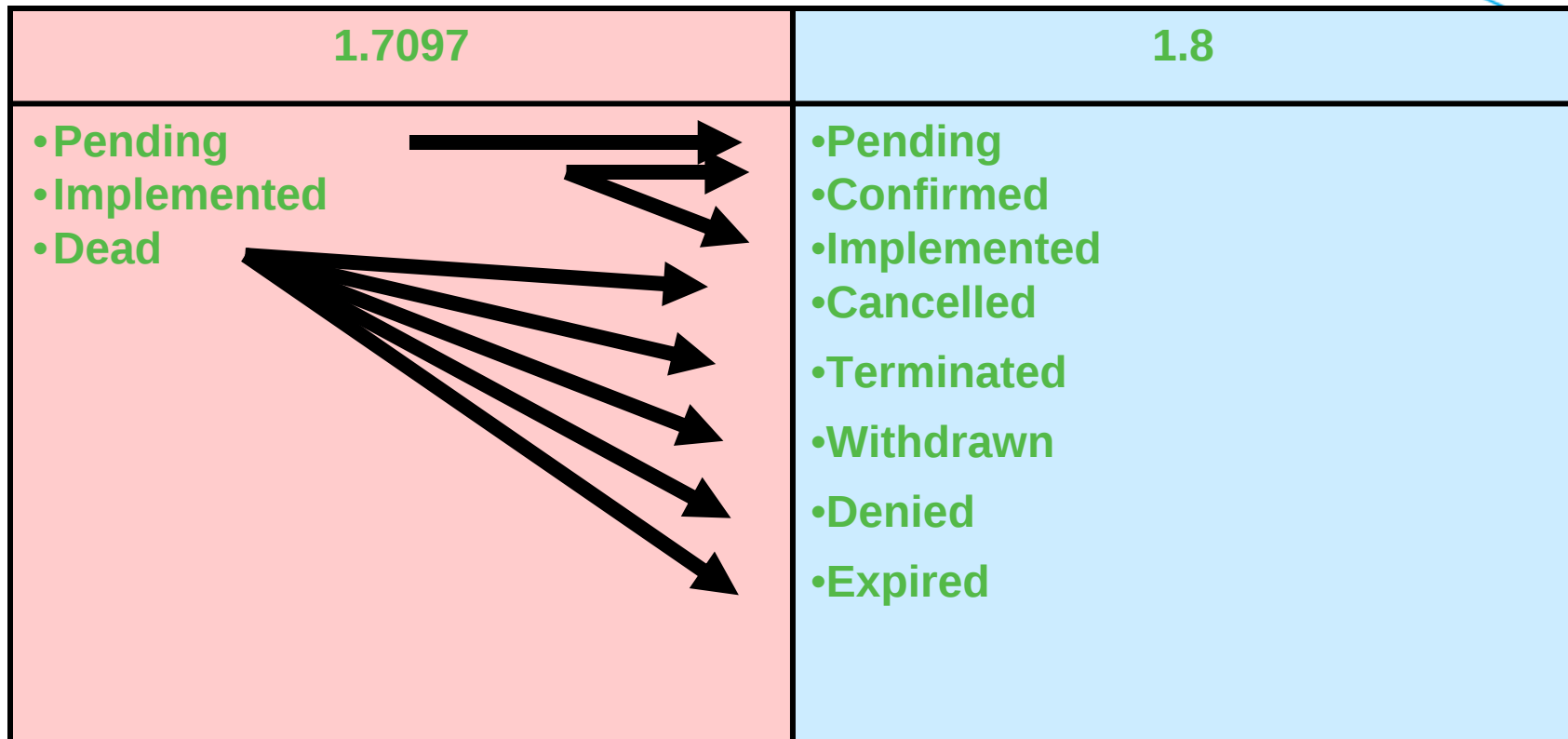


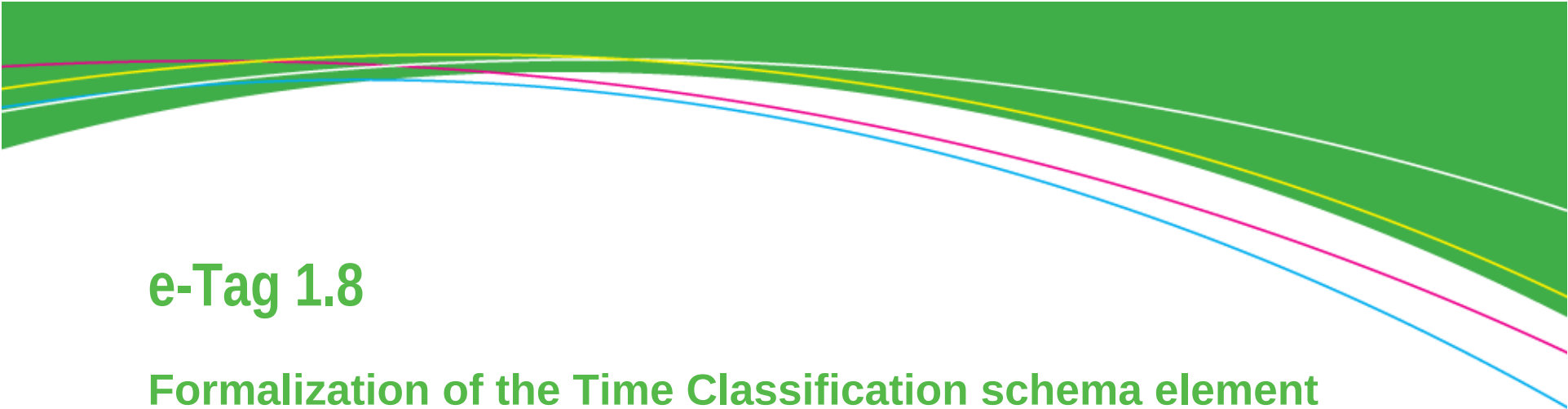
## e-Tag 1.8

The composite state indicates the overall state of the e-Tag

# e-Tag 1.8

## Composite States



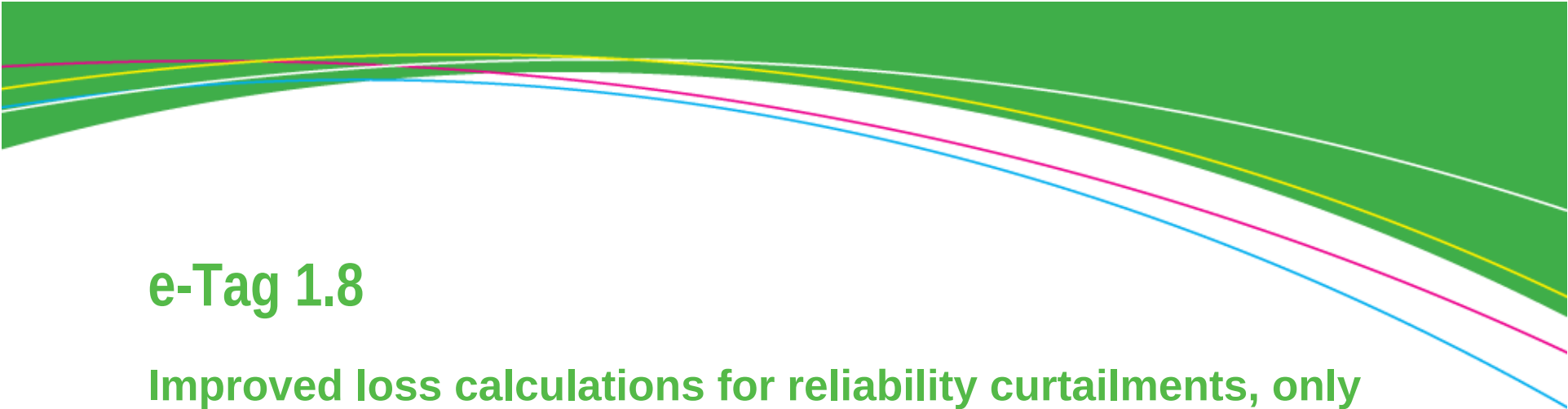


## e-Tag 1.8

### Formalization of the Time Classification schema element

Authority Service assigns based on the relative ramp start and submittal time

- On-time
- LATE
- ATF

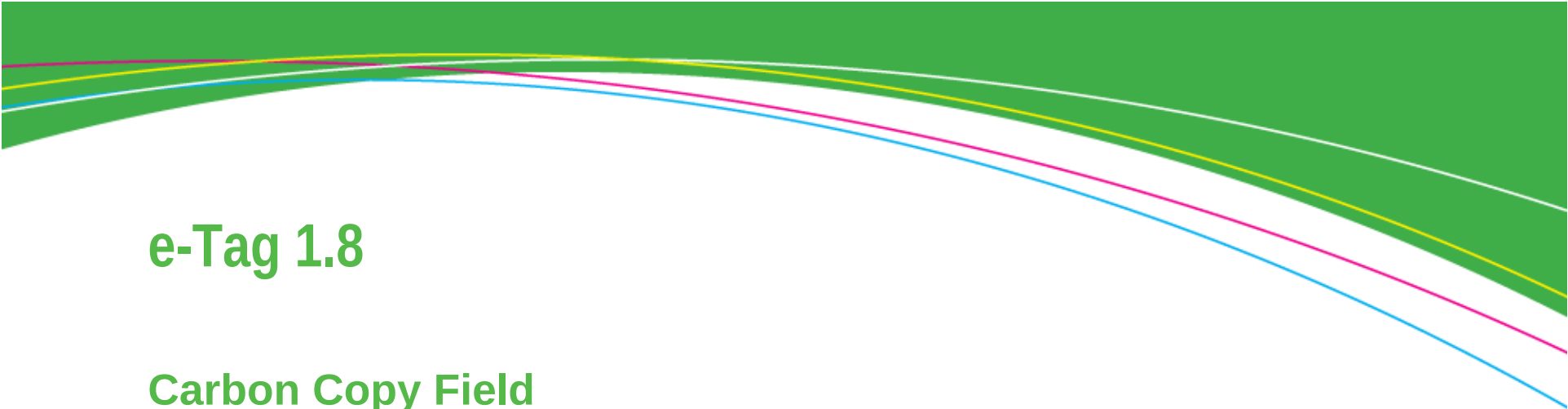


## e-Tag 1.8

Improved loss calculations for reliability curtailments, only

In 1.7097 the Authority Service recalculated in-kind losses for a curtailment from the source BA to the sink BA, regardless of the curtailed segment

In 1.8 the curtailing entity will specify the segment with the restriction and the Authority Service will recalculate losses both up-stream and down stream of that segment



## e-Tag 1.8

### Carbon Copy Field

In 1.8 the Tag Author may specify other BAs, TSPs, or PSEs who need to know about the transaction but who are not listed in either the market or physical paths in the e-Tag

Carbon Copy entities do not have approval rights

# e-Tag 1.8

## Corrections to Products

In e-Tag, while a request is still pending, the tag author can make corrections to certain information

Any correction requires the re-assessment of the tag by impacted entities

The e-Tag specification defines who the impacted entities are based on the information being changed

Order 890 requires firm network transactions to be firm energy on firm transmission

The last TSP or sink BA may deny the tag if non-firm energy and/or transmission product codes are used

For product code corrections, 1.8 will include the last TSP, sink BA, and LSE in the impacted entity list

## e-Tag 1.8

### Corrections to Products (con't.)

In 1.7097, impacted entities were defined as:

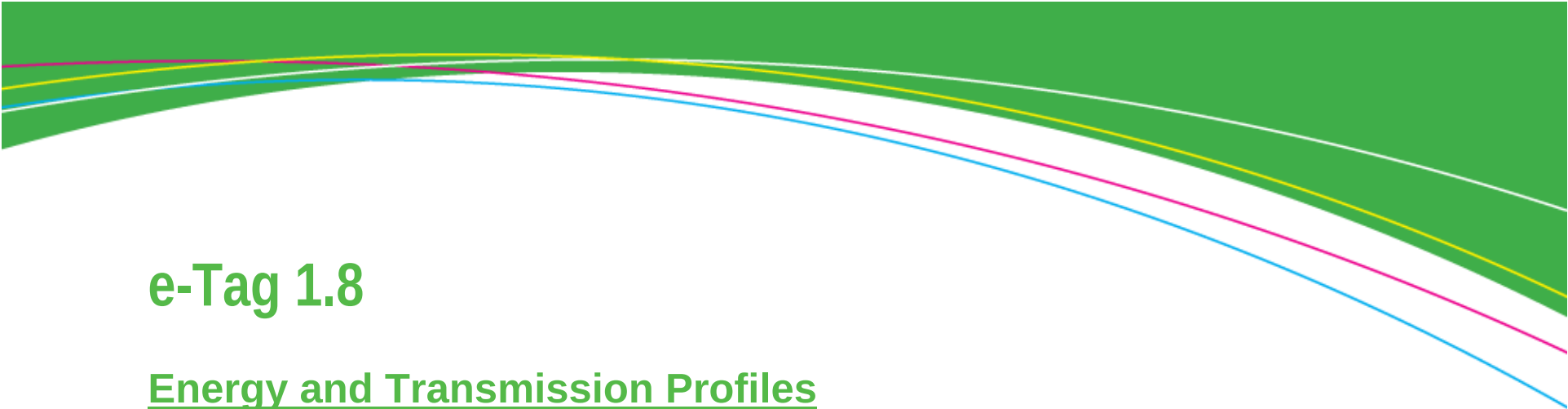
| Correction Type                                                                        | Impacted Entity                                                                              |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Any allowable correction to a Physical Generation Segment                              | Source BA, Generation Providing Entity                                                       |
| Any allowable correction to a Physical Transmission Segment or Transmission Allocation | Transmission Service Provider, Scheduling Entities (Intermediate BAs), Transmission Customer |
| Any allowable correction to a Physical Load Segment                                    | Sink BA, Load Serving Entity                                                                 |
| Any allowable correction to a Market Segment                                           | Purchasing-Selling Entity                                                                    |

# e-Tag 1.8

## Corrections to Products (con't.)

In 1.8, impacted entities are defined as:

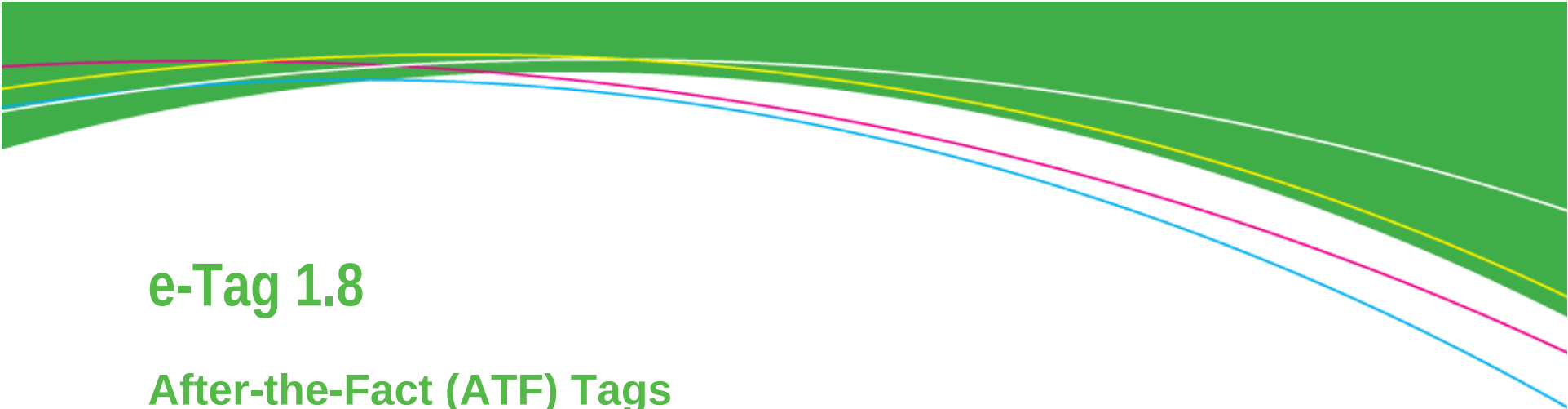
| Correction Type                                                                        | Impacted Entity                                                                              |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Any allowable correction to a Physical Generation Segment                              | Source BA, Generation Providing Entity                                                       |
| Any allowable correction to a Physical Transmission Segment or Transmission Allocation | Transmission Service Provider, Scheduling Entities (Intermediate BAs), Transmission Customer |
| Any allowable correction to a Physical Load Segment                                    | Sink BA, Load Serving Entity                                                                 |
| Any allowable correction to a Market Segment                                           | Purchasing-Selling Entity                                                                    |
| Any allowable correction to any product code (energy or transmission)                  | In addition to the above, the last Physical Transmission Segment's TSP, LSE, Sink BA         |



## e-Tag 1.8

### Energy and Transmission Profiles

The Agent and Authority Services will require the e-Tag's transmission allocation profile to be  $\geq$  the energy profile

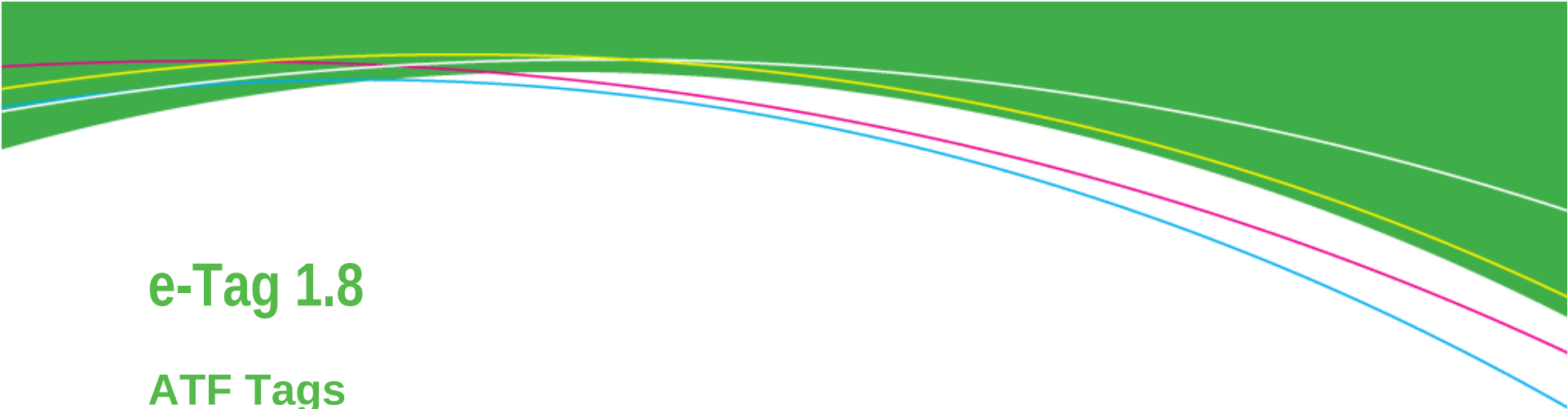


## e-Tag 1.8

### After-the-Fact (ATF) Tags

In 1.7097, ATF e-Tags could not be Terminated if a mistake was made

In 1.8 an ATF e-Tag can be Terminated

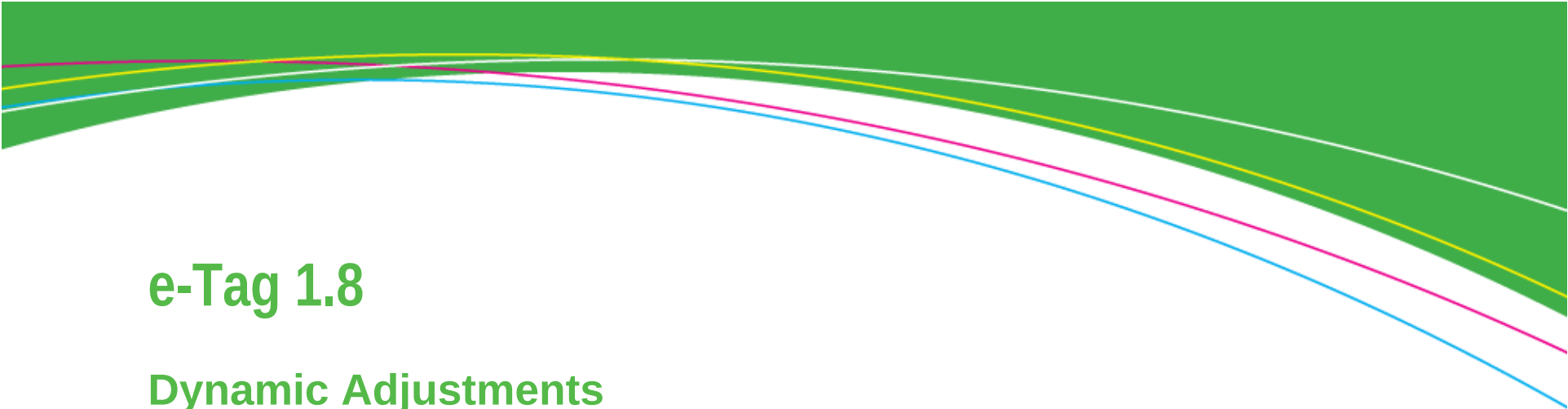


## e-Tag 1.8

### ATF Tags

In 1.7097, ATF e-Tags are restricted to a duration of one hour and can be submitted up to 48 hours in the past

In 1.8, ATF e-Tags are still restricted to a duration of one hour but may now be submitted with a start time up to 168 hours in the past

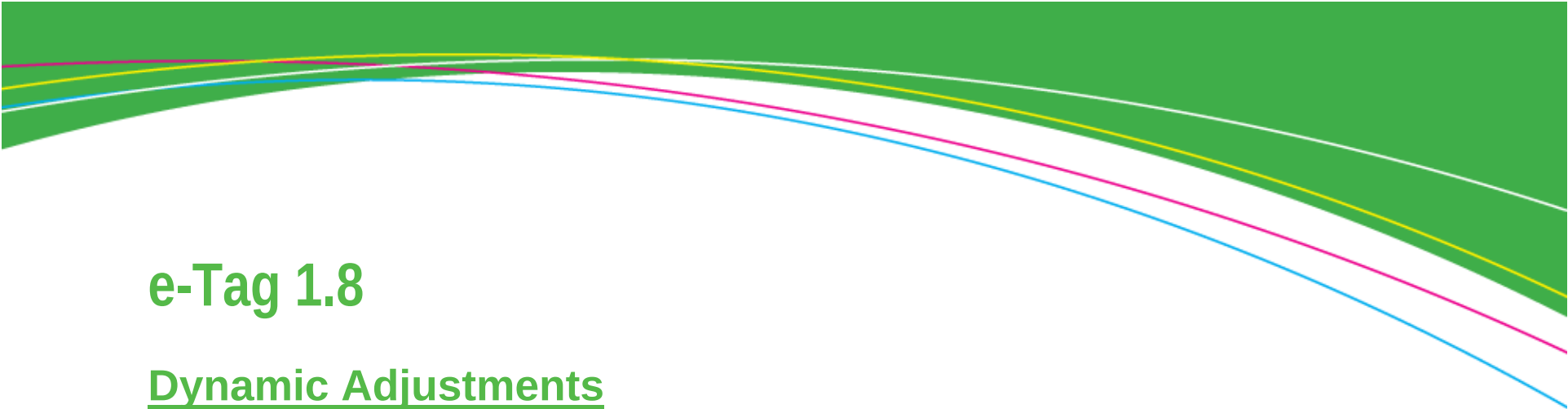


## e-Tag 1.8

### Dynamic Adjustments

In e-Tag 1.7097 only the e-Tag author could submit energy profile adjustments to a Dynamic type e-Tag

e-Tag 1.8 will allow the Source and Sink BAs to also submit energy profile adjustments to Dynamic type e-Tags

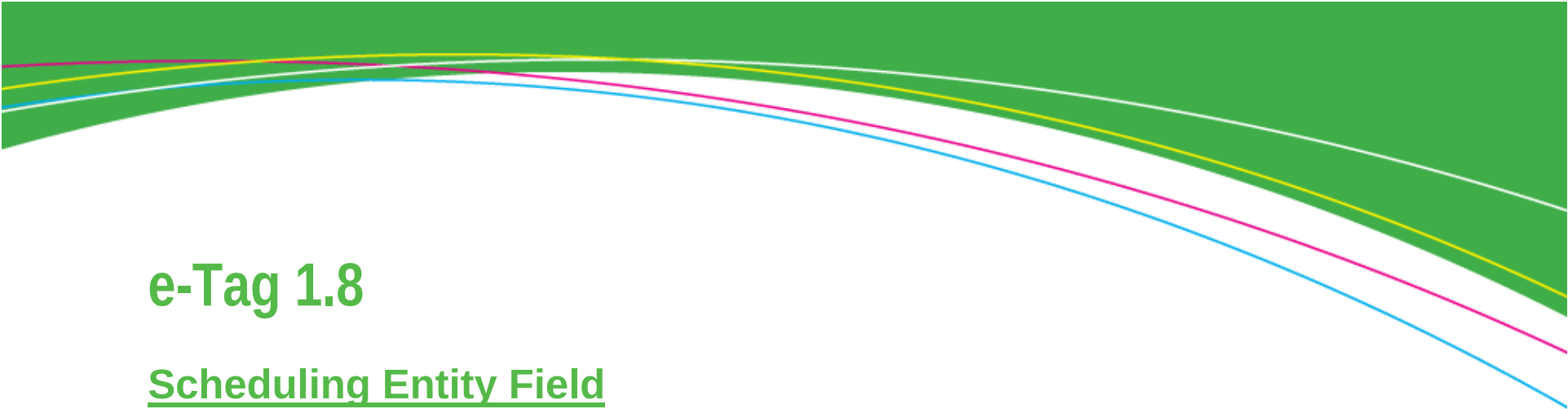


## e-Tag 1.8

### Dynamic Adjustments

In 1.7097, adjustments to DYNAMIC e-Tags are limited to 96 hours in the past

In 1.8, DYNAMIC e-Tags may be adjusted up to 168 hours in the past, i.e. the actual hour being adjusted may not be more than 168 hours in the past

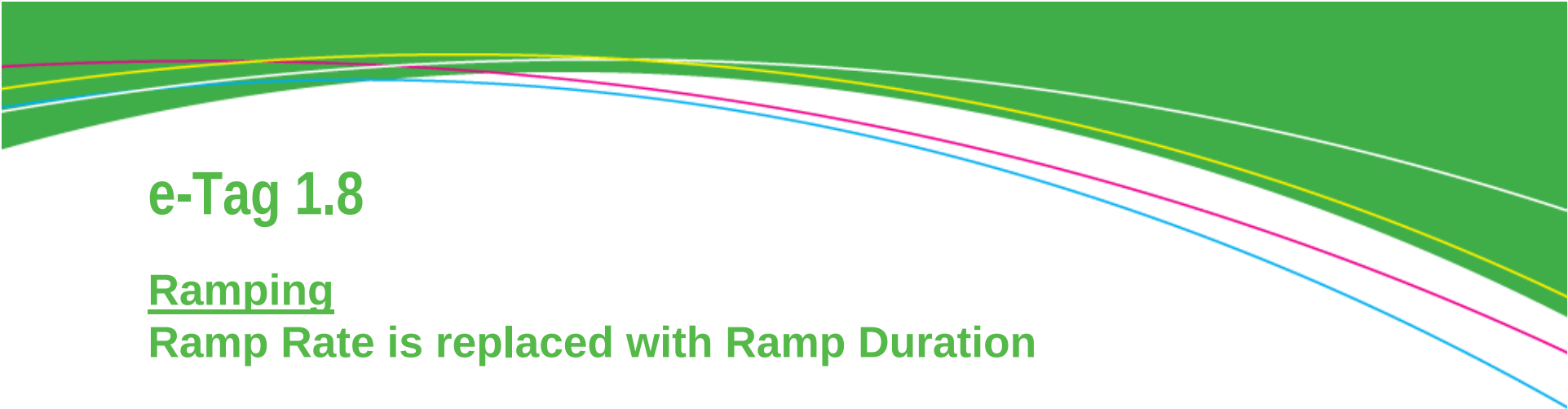


## e-Tag 1.8

### Scheduling Entity Field

In the WECC, 1.8 requires a single Scheduling Entity (BA) in each transmission segment

All other interconnections it is not required to be specified by the tag author if the Scheduling Entity code for the physical segment is identical to the Transmission Service Provider (TSP) code on that physical segment



## e-Tag 1.8

### Ramping

Ramp Rate is replaced with Ramp Duration

Users will no longer see a ramp duration on intermediate interchange scheduled blocks

CI Standards specify default ramp start and ramp stop times

Default ramp duration of 10 minutes for reliability “curtailments”, but the user may specify other durations, including zero

Uses separate default straddle ramps for Western and Eastern Interconnections.



## e-Tag 1.8

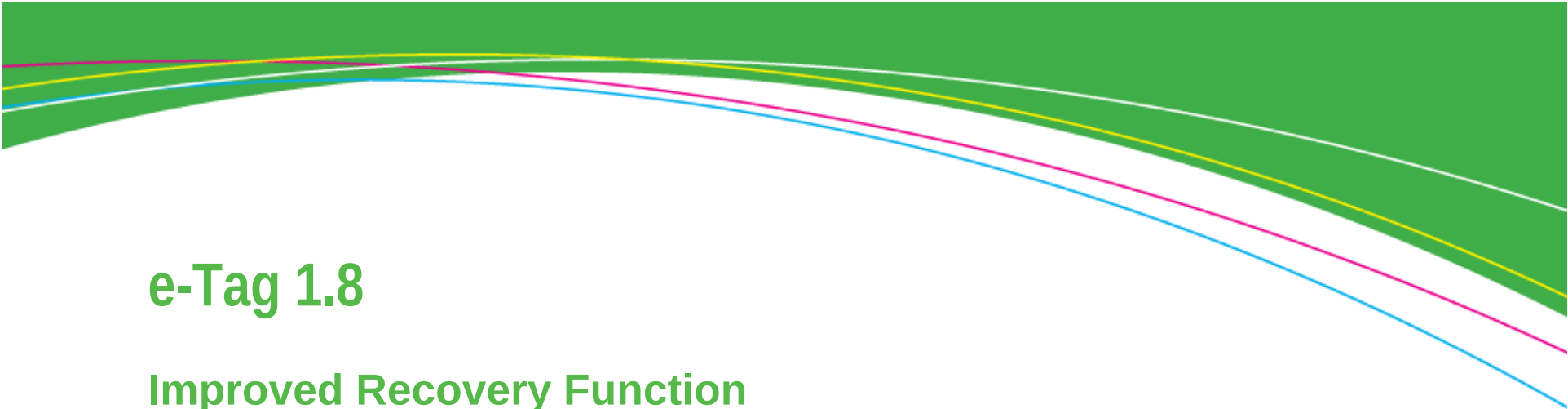
### Rounding Standard

Within e-Tag 1.8, a rounding standard to move MW values to the nearest whole MW was added to be used in loss calculations

MW values in e-Tag profiles are sometimes integrated into MWh values across schedule intervals

e-Tag profiles that start or stop within schedule intervals may result in fractional MWh values being calculated.

(< .50 down, >= .50 up)

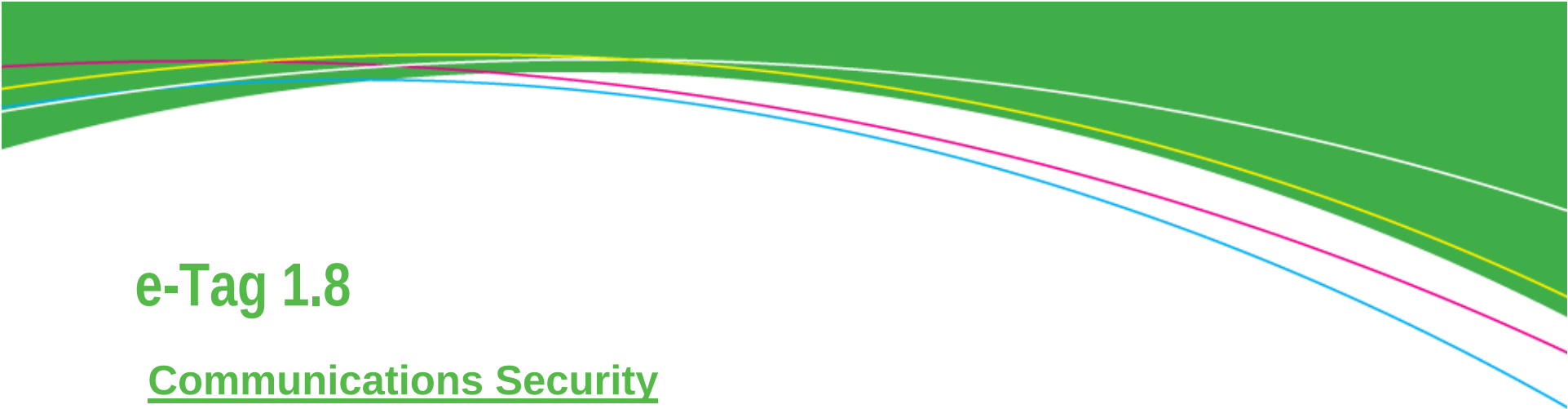


## e-Tag 1.8

### Improved Recovery Function

Recovery is a mechanism that an Agent or Approval Service can request all updates from all Authority Services for any missed requests

Vendor displays may vary – user initiated recovery not always available



## e-Tag 1.8

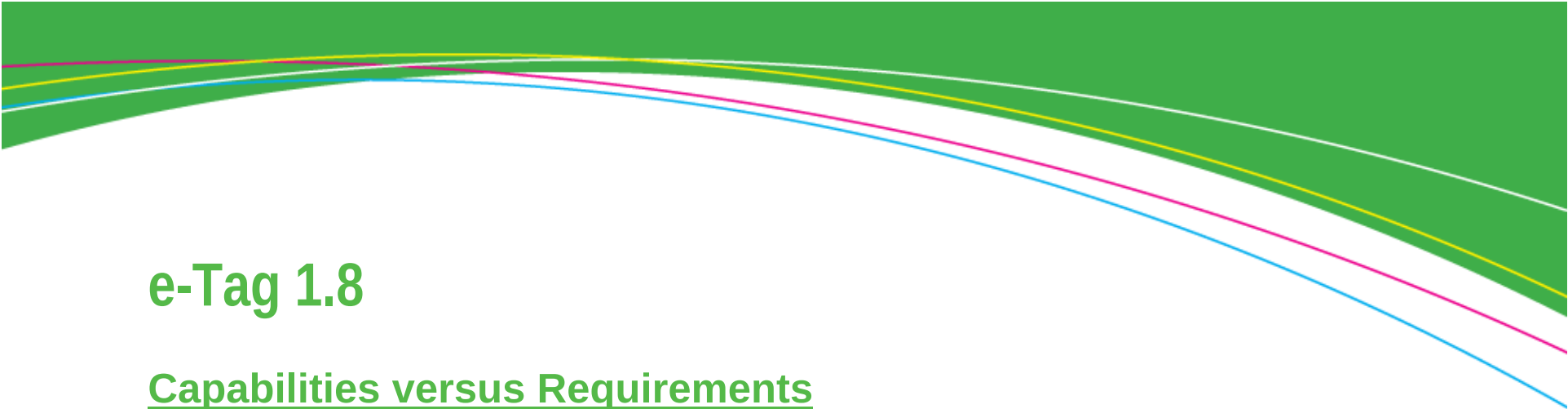
### Communications Security

Added SSL via HTTPS and client certificate requirement based on NAESB PKI standard.

Initial roll-out will require server-side only

Client-side implementation will be phased-in over time

Companies will need to work with their specific vendor as implementation requirements will vary.



## e-Tag 1.8

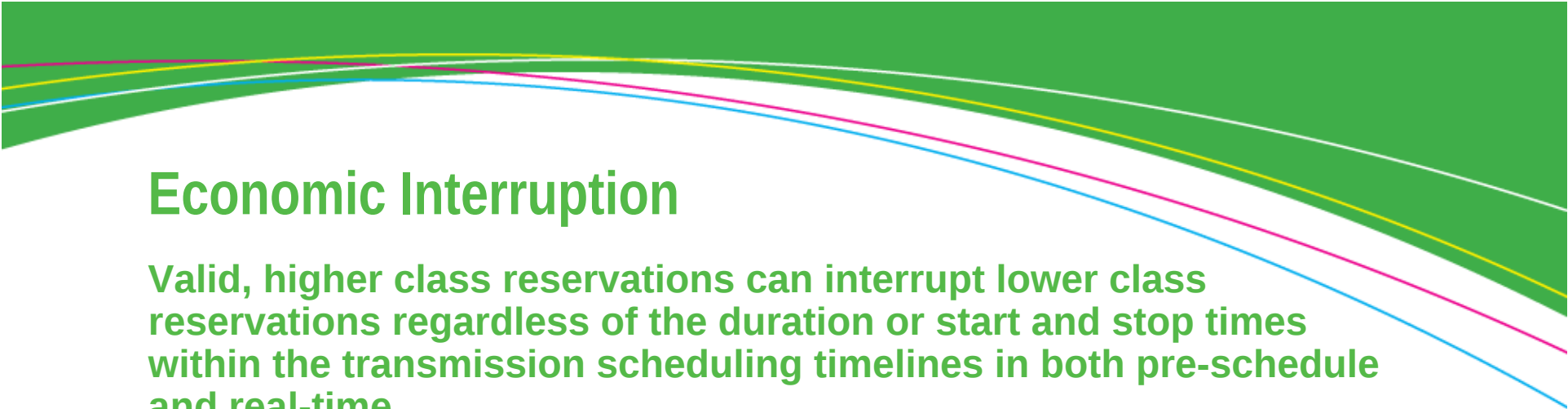
### Capabilities versus Requirements

e-Tag 1.8 contains new features and capabilities such as Carbon Copy list, after-the-fact adjustments to DYNAMIC by BAs, etc.

The presence of these new features and capabilities does not require industry participants to utilize them beyond applicable standards

# Interruptions and Curtailments





# Economic Interruption

Valid, higher class reservations can interrupt lower class reservations regardless of the duration or start and stop times within the transmission scheduling timelines in both pre-schedule and real-time

## Economic interruptions can happen:

- where a customer purchases a higher class of transmission which leads to the interruption of a lower class due to insufficient ATC
- where a customer utilizes its transmission which leads to the interruption of another customer's purchase of its unused transmission

Customers are not required to pay for transmission requests that are economically interrupted



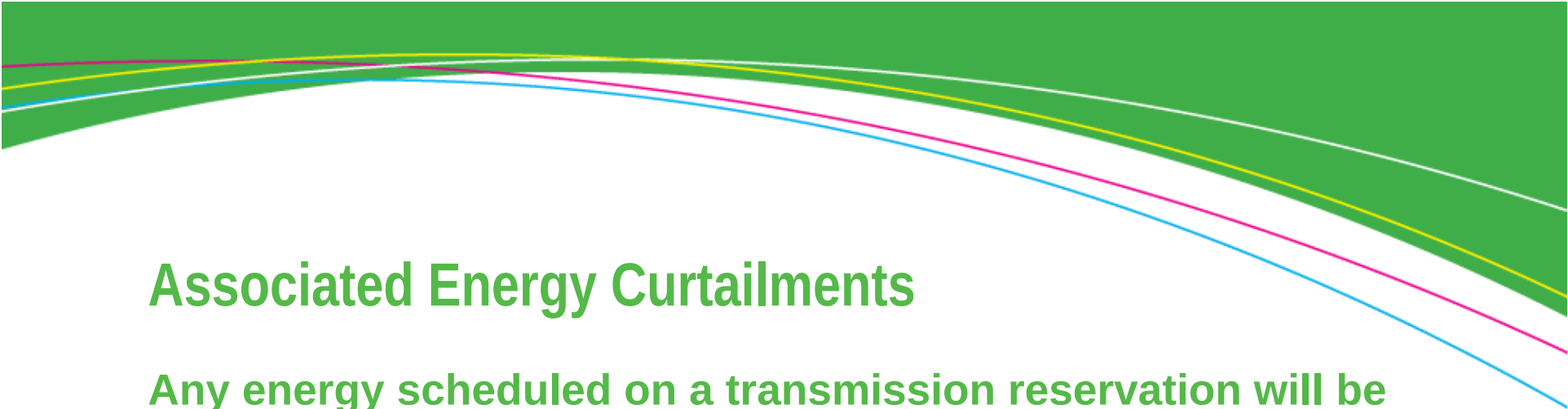
# Transmission Curtailments

Curtailment of a transmission service occurs when an emergency or unforeseen condition threatens to degrade the reliability of the transmission system

Curtailments will be made on a non-discriminatory basis to relieve the constraint

The transmission curtailment order is:

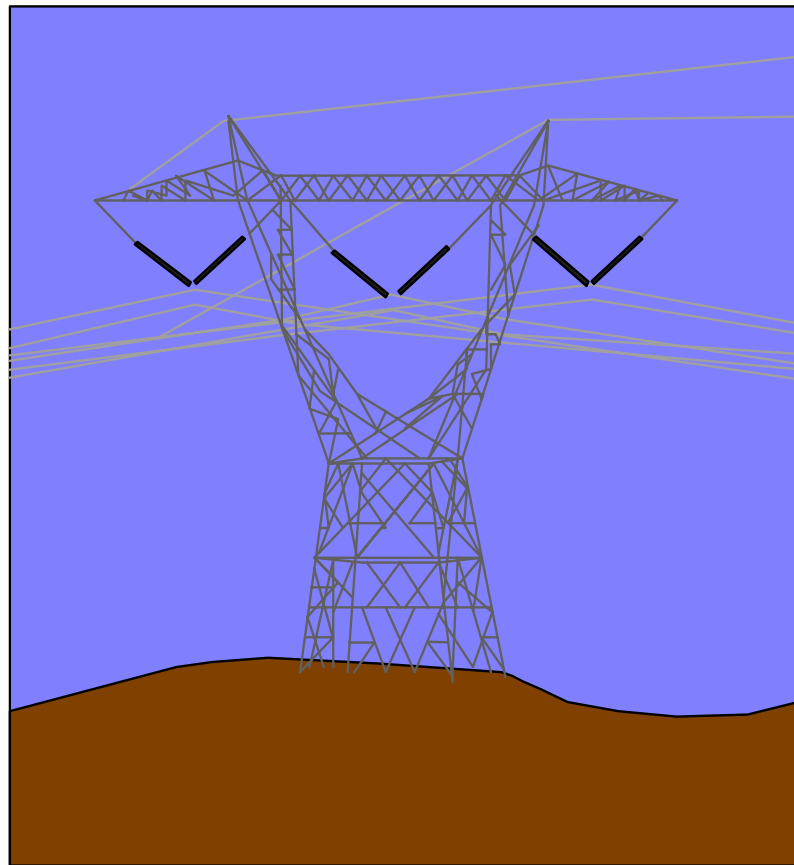
- Secondary (LIFO)
- Non-Firm (LIFO based on duration)
- Network Economy (LIFO)
- Firm (pro-rata)

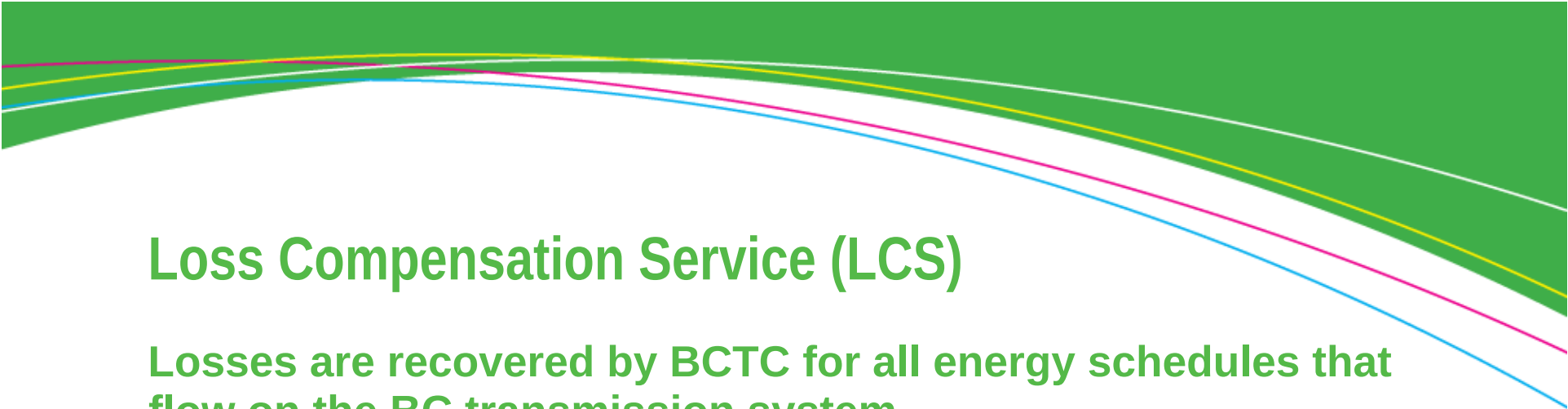


## Associated Energy Curtailments

Any energy scheduled on a transmission reservation will be curtailed if the associated transmission reservation is curtailed

# Transmission Losses





## Loss Compensation Service (LCS)

Losses are recovered by BCTC for all energy schedules that flow on the BC transmission system

Customers elect, on an annual basis from April 1 to April 15, whether they want to purchase LCS from BCTC or self-supply their losses

- If an election is not made within this time period, the customer will be deemed to have elected to purchase LCS under BCTC's OATT



## Three Strike Rule for Self-Supply

If a customer does not supply a valid loss schedule for any transaction, BCTC will assign a “strike”

BCTC will validate, after-the-fact, if the self-supply customer that had energy scheduled on the prior working day, supplied their losses accordingly

If a customer incurs a “strike(s)” in a particular working day, there will be a letter and/or email issued by BCTC to notify the customer

If a customer incurs three “strikes”, BCTC will immediately default the Loss Supply to be BCTC, and the customer shall be charged the Loss Compensation Rate as per Rate Schedule 09

## Settlement and Billing





## Settlement and Billing

“Rates Schedules” that are filed in accordance with the Utilities Commission Act are the only lawful enforceable, and collectable rates of the public utility filing them, and no other rate may be collected, charged or enforced

A “rate” includes charges and other compensation, but also includes tariffs and a “rule, practice, measurement, classification or contract of a public utility or corporation relating to a rate”

Under BCTC’s OATT, Rate Schedules 01-10 are appropriately applied to wholesale transmission transactions



## Summary of Rate Schedules

RS 01 - Long and Short-Term Firm Point-to-Point Transmission Service

RS 02 - Non-Firm Point-to-Point Transmission Service

RS 03 - Scheduling, System Control and Dispatch Service (SSCD)

RS 04 - Reactive Supply and Voltage Control from Generation Sources  
Services (RSVC)

RS 05 - Regulation and Frequency Response Service (RFR)

RS 06 - Energy Imbalance (EI) Service

RS 07 - Operating Reserve (OR) – Spinning Reserve Service

RS 08 - OR – Supplemental Reserve Services

RS 09 - Loss Compensation Service (LCS)

RS 10 - Real Power Losses



## Payment Rules for Curtailments

If a customer's transmission reservation is curtailed because of a BC-identified reliability reason, which is reflected in the transfer capability, the customer will not pay for that curtailment

Customers do not pay for economic interruptions

If a customer's transmission reservation is curtailed because of a non-BC reliability reason, which is reflected in the transfer capability, the customer will pay for that curtailment

# Pre-schedule Displacements

## Key Terms and Definitions

- What is and is not a Displacement?
- Duration

## Submitting Requests

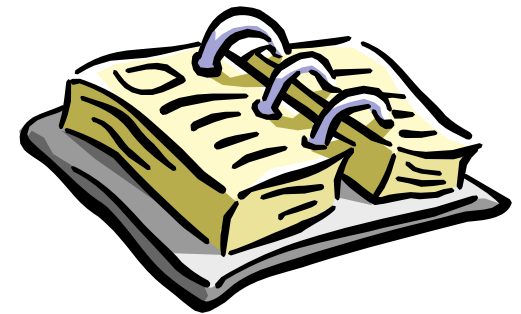
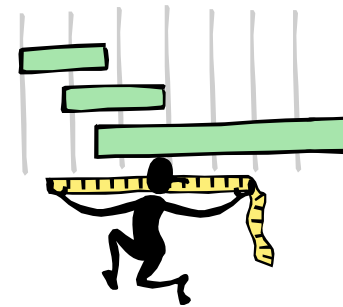
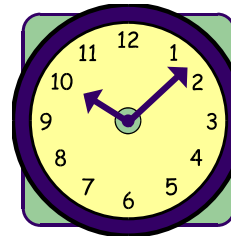
## Posting Periods

## Duration

- Right of First Refusal (ROFR)
  - Match Duration
  - Match Price
- Counteroffer (Grant Remaining Capacity)

## Price ROFR

## E-Tags and Displacements





## Key Terms used in Displacements

**Class** - Firm, Non-Firm, Network Economy or Secondary Service

**Service Increment** - Hourly, Daily, Weekly, Monthly or Yearly

**Duration** - the number of consecutive, same MW service increments between the Start Time and Stop Time

**Capacity** - MW value of the Transmission Reservation

**Priority** - defined either by a higher class of service or longer duration or price



## Key Terms used in Displacements

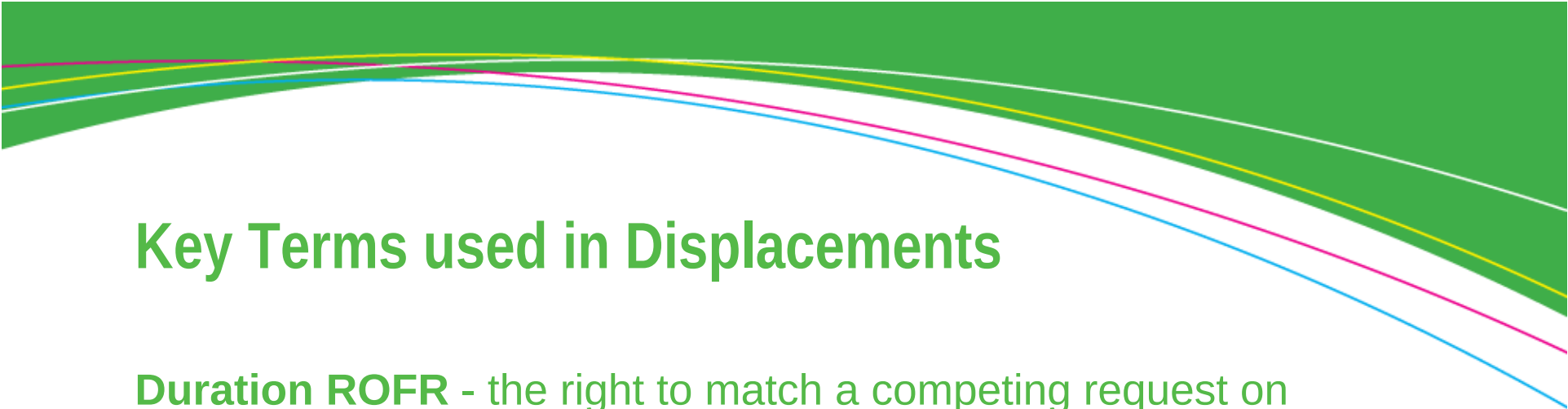
**Price** - must be equal to or greater than the posted price and no higher than the maximum Tariff price

### Original Request

- CONFIRMED - Pre-confirmed YES or
- ACCEPTED - Pre-confirmed NO (not yet CONFIRMED by customer)

**Competing Request** - Request with higher priority than an earlier CONFIRMED or ACCEPTED request and insufficient ATC to cover both requests

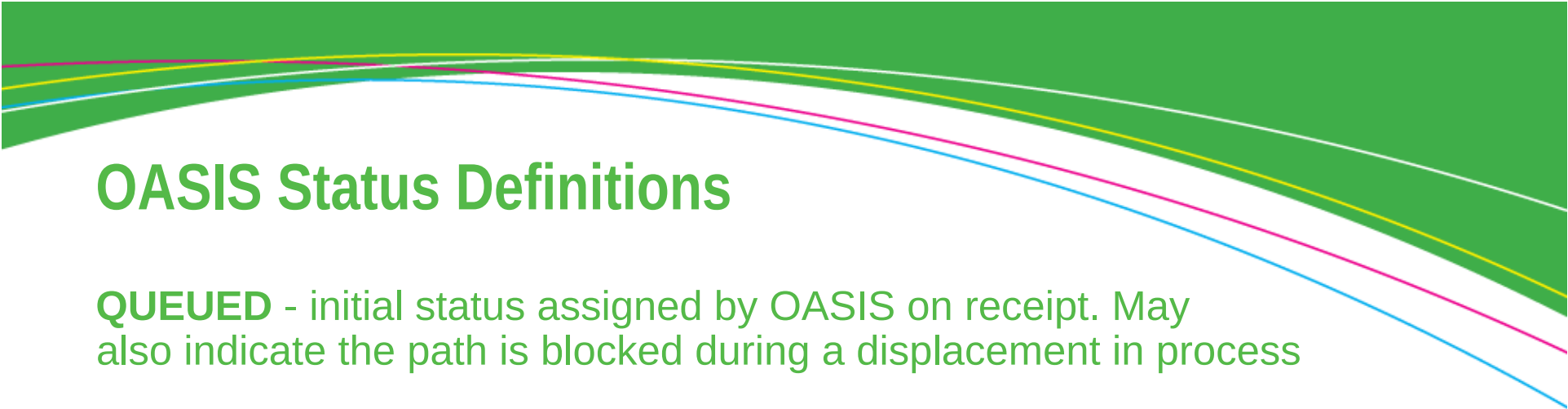
**Matching Request** - Submitted by customer in response to a pending displacement



## Key Terms used in Displacements

**Duration ROFR** - the right to match a competing request on Duration within the required timelines

**Price ROFR** - the right for an accepted request to match a competing non-firm request on Price when that competing request is the same duration with a higher price



# OASIS Status Definitions

**QUEUED** - initial status assigned by OASIS on receipt. May also indicate the path is blocked during a displacement in process

**WITHDRAWN** - assigned during the evaluation process to indicate customer has withdrawn request

**CONFIRMED** - assigned to indicate the transmission reservation exists

**ACCEPTED** - assigned to indicate the request has been accepted and awaiting confirmation

**INVALID** - assigned to indicate an invalid field in the request or received outside timelines.



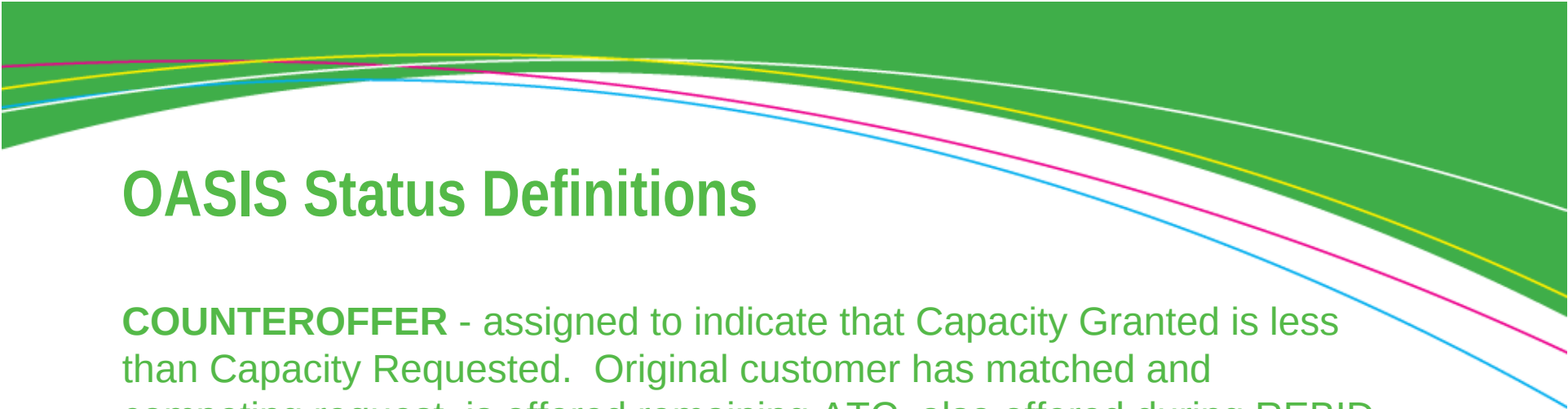
## OASIS Status Definitions

**RECEIVED** - assigned to acknowledge queued request and indicate the request is being evaluated as a competing request

**REFUSED** - assigned to indicate a service request has been denied due to the lack of availability

**DECLINED** - assigned to indicate terms and conditions such as Bid Price are unacceptable and that negotiations have been terminated

**RETRACTED** - customer failed to confirm or withdraw the request within the required time period



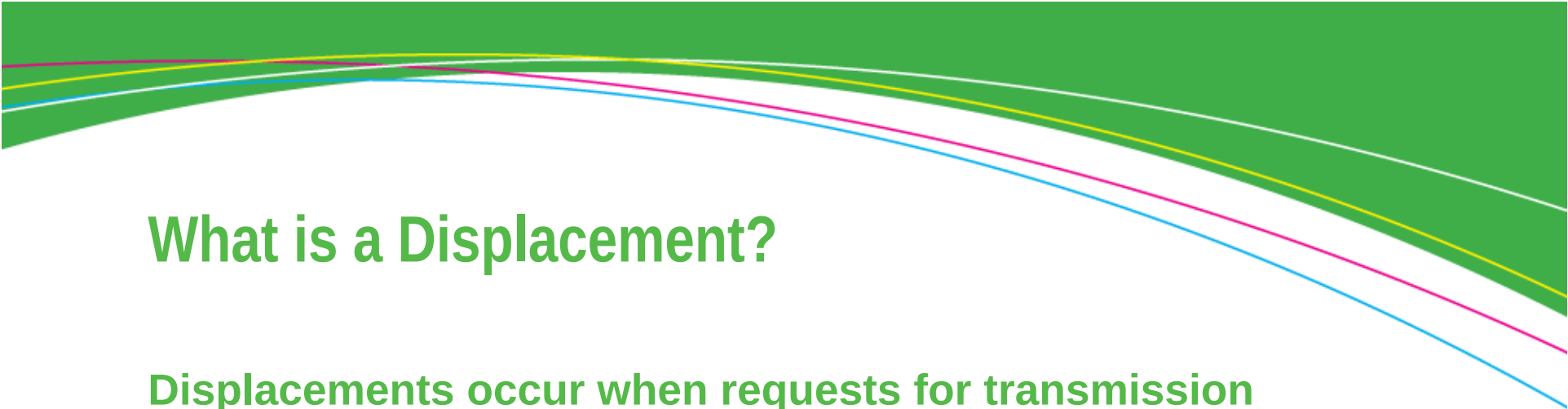
# OASIS Status Definitions

**COUNTEROFFER** - assigned to indicate that Capacity Granted is less than Capacity Requested. Original customer has matched and competing request is offered remaining ATC, also offered during REBID

**DISPLACED** - assigned to indicate a customer has been displaced by a higher priority reservation

**SUPERSEDED** - assigned to indicate a request which has not yet been confirmed is displaced by a higher priority reservation. (Price ROFR)

**REBID** - assigned to indicate that a new Bid Price is being proposed, used during Price ROFR

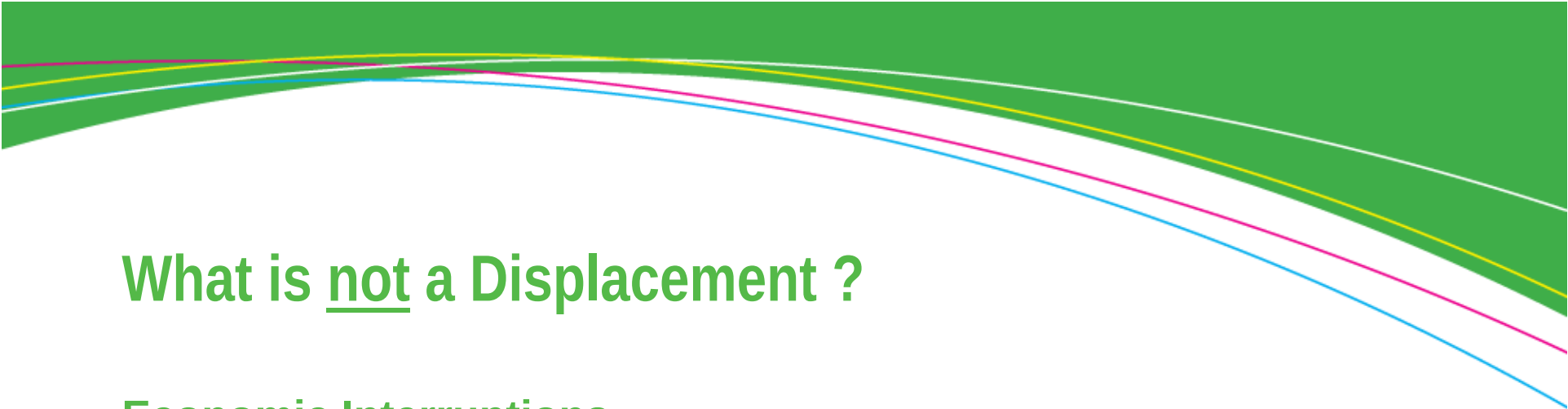


## What is a Displacement?

Displacements occur when requests for transmission service of a higher priority, regardless of MW amount, are received that potentially displace lower priority requests

Under certain competing circumstances transmission requests receive Right of First Refusal (ROFR) on Duration or Price

**Note:** The displacement process only occurs in Pre-schedule, not Real-time



## What is not a Displacement ?

### Economic Interruptions

- A valid, higher class reservation will interrupt a lower class reservation if there is insufficient ATC to satisfy both requests

### Transmission Curtailment

- Curtailment of a transmission service occurs when an emergency or unforeseen condition threatens to degrade the reliability of the transmission system
- Curtailments will be made on a non-discriminatory basis to relieve the constraint

## What is Duration?

Duration is the number of consecutive hours with the same MW service increments within the Start and Stop Time and it plays a major role in the displacement process

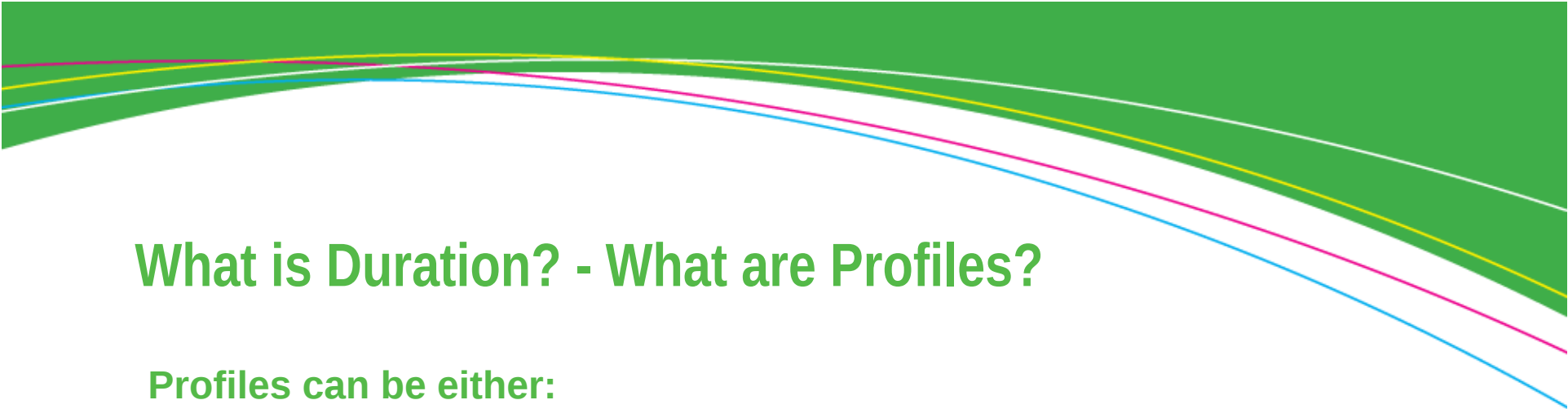
Duration - Hourly Service

| OASIS Ref # | Duration | HE01 | HE02 | HE03 | HE04 | HE05 | HE06 | HE07 |
|-------------|----------|------|------|------|------|------|------|------|
| 200152      | 1 Hour   | 50   | 50   | 50   | 0    | 0    | 0    | 75   |
| 200154      | 1 Hour   | 50   | 50   | 0    | 50   | -    | -    | -    |
| 200165      | 7 Hours  | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| 200167      | 3 Hours  | -    | -    | 10   | 10   | 10   | -    | -    |
| 200143      | 1 Hour   | 15   | 16   | 15   | 15   | 15   | -    | -    |
| 200136      | 1 Hour   | 10   | 0    | 10   | 10   | 0    | 0    | 10   |



## What are Profiles?

Profiles are the MW values and duration of any given transmission request also referred to as the shape of the transmission request



## What is Duration? - What are Profiles?

### Profiles can be either:

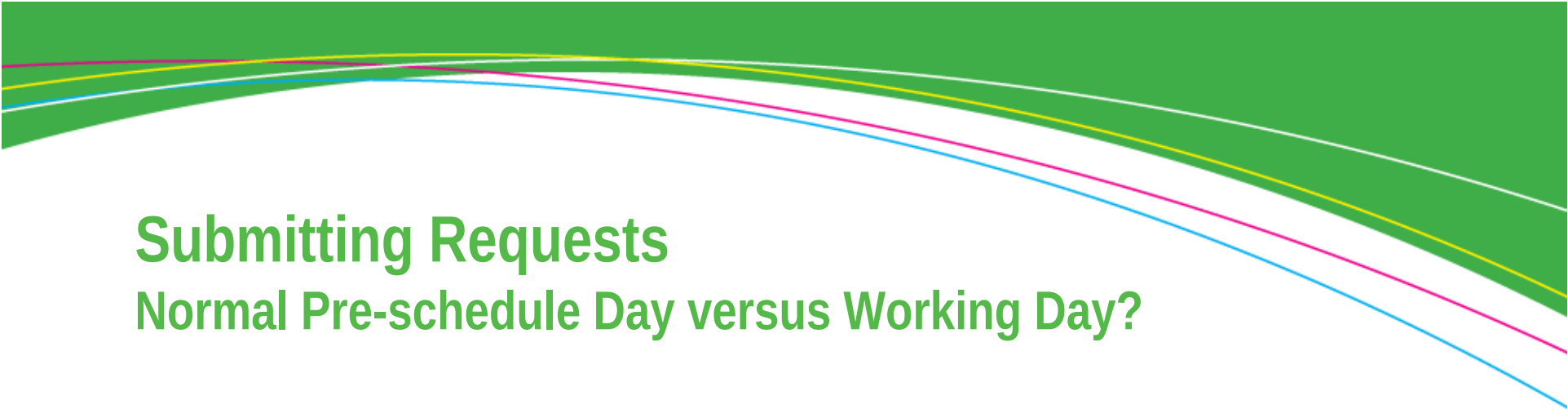
- Mixed
    - Different MW value used in one or more hours between the Start and Stop Time
    - Mixed profiles are only allowed in Hourly Transmission requests
- OR
- Flat
    - Same MW value used in each hour between the Start and Stop Time
    - Flat profiles **must be** used within the defined increment of **(Daily, Weekly, Monthly and Yearly)** the transmission request in order to be valid

Requests that have zeros within or outside of the duration desired will be counted as a duration of one hour

## DURATION

| Duration - Hourly Service |          |      |      |      |      |      |      |      |
|---------------------------|----------|------|------|------|------|------|------|------|
| Oasis Ref #               | Duration | HE01 | HE02 | HE03 | HE04 | HE05 | HE06 | HE07 |
| 200152                    | 1 Hour   | 50   | 50   | 50   | 0    | 0    | 0    | 75   |
| 200154                    | 1 Hour   | 50   | 50   | 0    | 50   |      |      |      |
| 200165                    | 7 Hours  | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| 200167                    | 3 Hours  |      |      | 10   | 10   | 10   |      |      |
| 200143                    | 1 Hour   | 15   | 16   | 15   | 15   | 15   |      |      |
| 200136                    | 1 Hour   | 10   | 0    | 10   | 10   | 0    | 0    | 10   |

**Important Note:** whenever a zero is used within the start and stop time of an hourly request, the duration is counted as one



# Submitting Requests

## Normal Pre-schedule Day versus Working Day?

### What is a Normal Pre-Schedule Day (NPD)?

- 00:00:00-16:59:59, 7 days a week
- Shift schedule for staff is 07:15:00 - 18:00:00 PPT

### What is a Working Day ?

- Any day in the week excluding weekends and statutory holidays as posted on the WECC Pre-schedule Calendar

[http://www.wecc.biz/documents/library/ISAS/2008\\_WECC\\_Preschedule\\_Calendar.pdf](http://www.wecc.biz/documents/library/ISAS/2008_WECC_Preschedule_Calendar.pdf)

# Earliest Transmission Request Submittal

## In General

- Requests for **monthly** service shall be submitted no earlier than sixty (60) days before service is to commence;
- **Weekly** service shall be submitted no earlier than fourteen (14) days before service is to commence,
- **Daily** service shall be submitted no earlier than two (2) Working Days before service is to commence.
- **Hourly** service for Tuesday to Friday shall be submitted no earlier than 0:00:00 the Working Day before service is to commence. Request for hourly service for Saturday shall be submitted no earlier than 00:00:00 the preceding Thursday. Request for hourly service for Sunday and Monday shall be submitted no earlier than 00:00:00 the preceding Friday.
- Holidays, as posted on OASIS , will affect the aforementioned bidding windows for the earliest submission timeline for hourly service. For example, if a NERC holiday falls on Monday, transmission requests can be submitted as early as 00:00:00 Friday for the following Tuesday.

Industry Standards have been developed to accommodate entities that operate on a 5 day basis

BCTC has implemented “Extended Windows” to accommodate this Standard (as indicated above)



## Earliest Transmission Request Submittal

**Extended Windows are done in coordination with “normal weekends” and NERC approved holidays, and other approved timeframes as established by WECC**

- Timeframes are set forth in the WECC Prescheduling Calendar posted on the WECC website

[http://www.wecc.biz/documents/library/ISAS/2008\\_WECC\\_Preschedule\\_Calendar.pdf](http://www.wecc.biz/documents/library/ISAS/2008_WECC_Preschedule_Calendar.pdf)

# Extended Windows

## HOURLY Firm and Non-Firm Regular Weekend

| Time     | Day       |              | Jan<br>24<br>Tuesday | Jan<br>25<br>Wednesday | Jan<br>26<br>Thursday | Jan<br>27<br>Friday | Jan<br>28<br>Saturday | Jan<br>29<br>Sunday | Jan<br>30<br>Monday |
|----------|-----------|--------------|----------------------|------------------------|-----------------------|---------------------|-----------------------|---------------------|---------------------|
| 00:00:00 | Monday    | Jan 23, 2006 | X                    |                        |                       |                     |                       |                     |                     |
| 00:00:00 | Tuesday   | Jan 24, 2006 |                      | X                      |                       |                     |                       |                     |                     |
| 00:00:00 | Wednesday | Jan 25, 2006 |                      |                        | X                     |                     |                       |                     |                     |
| 00:00:00 | Thursday  | Jan 26, 2006 |                      |                        |                       | X                   | X                     |                     |                     |
| 00:00:00 | Friday    | Jan 27, 2006 |                      |                        |                       |                     | X                     | X                   | X                   |
| 00:00:00 | Saturday  | Jan 28, 2006 |                      |                        |                       |                     |                       | X                   | X                   |
| 00:00:00 | Sunday    | Jan 29, 2006 |                      |                        |                       |                     |                       |                     | X                   |

Saturday's transmission can be purchased as early as 00:00:00 Thursday

# Extended Windows

## Hourly Firm and Non-Firm - Monday Statutory Holiday

**HOURLY** Firm and Non-Firm  
Martin Luther King's Birthday Jan 16, 2006

| Time     | Day       |              | Jan<br>11<br>Wednesday | Jan<br>12<br>Thursday | Jan<br>13<br>Friday | Jan<br>14<br>Saturday | Jan<br>15<br>Sunday | Jan<br>16<br>Monday | Jan<br>17<br>Tuesday |
|----------|-----------|--------------|------------------------|-----------------------|---------------------|-----------------------|---------------------|---------------------|----------------------|
| 00:00:00 | Tuesday   | Jan 10, 2006 | X                      | X                     |                     |                       |                     |                     |                      |
| 00:00:00 | Wednesday | Jan 11, 2006 |                        | X                     | X                   | X                     |                     |                     |                      |
| 00:00:00 | Thursday  | Jan 12, 2006 |                        |                       | X                   | X                     | X                   | X                   |                      |
| 00:00:00 | Friday    | Jan 13, 2006 |                        |                       |                     | X                     | X                   | X                   | X                    |
| 00:00:00 | Saturday  | Jan 14, 2006 |                        |                       |                     |                       | X                   | X                   | X                    |
| 00:00:00 | Sunday    | Jan 15, 2006 |                        |                       |                     |                       |                     | X                   | X                    |
| 00:00:00 | Monday    | Jan 16, 2006 |                        |                       |                     |                       |                     |                     | X                    |

**For example:** The window for purchasing Hourly Firm and Non-Firm transmission for Friday, Saturday, Sunday and Monday is as follows: Hourly Firm and Non-Firm transmissions requests for Monday, January 16, 2006 can be submitted as early as 00:00:00 Thursday January 12, 2006.

NERC holidays and New Month Pre-schedule days **MUST** be verified using the WECC Pre-schedule calendar. Not all holiday Mondays are treated the same.

# Extended Windows and Displacements

## Daily Firm and Non-Firm - Regular weekend

### DAILY Firm and Non-Firm

#### Regular Weekend

| Time     | Day       |              | Jan<br>24<br>Tuesday | Jan<br>25<br>Wednesday | Jan<br>26<br>Thursday | Jan<br>27<br>Friday | Jan<br>28<br>Saturday | Jan<br>29<br>Sunday | Jan<br>30<br>Monday | Jan<br>31<br>Tuesday |
|----------|-----------|--------------|----------------------|------------------------|-----------------------|---------------------|-----------------------|---------------------|---------------------|----------------------|
| 00:00:00 | Monday    | Jan 23, 2006 | X                    | X                      |                       |                     |                       |                     |                     |                      |
| 00:00:00 | Tuesday   | Jan 24, 2006 |                      | X                      | X                     |                     |                       |                     |                     |                      |
| 00:00:00 | Wednesday | Jan 25, 2006 |                      |                        | X                     | X                   |                       |                     |                     |                      |
| 00:00:00 | Thursday  | Jan 26, 2006 |                      |                        |                       | X                   | X                     | X                   | X                   |                      |
| 00:00:00 | Friday    | Jan 27, 2006 |                      |                        |                       |                     | X                     | X                   | X                   | X                    |
| 00:00:00 | Saturday  | Jan 28, 2006 |                      |                        |                       |                     |                       | X                   | X                   | X                    |
| 00:00:00 | Sunday    | Jan 29, 2006 |                      |                        |                       |                     |                       |                     | X                   | X                    |

# Extended Windows and Displacements

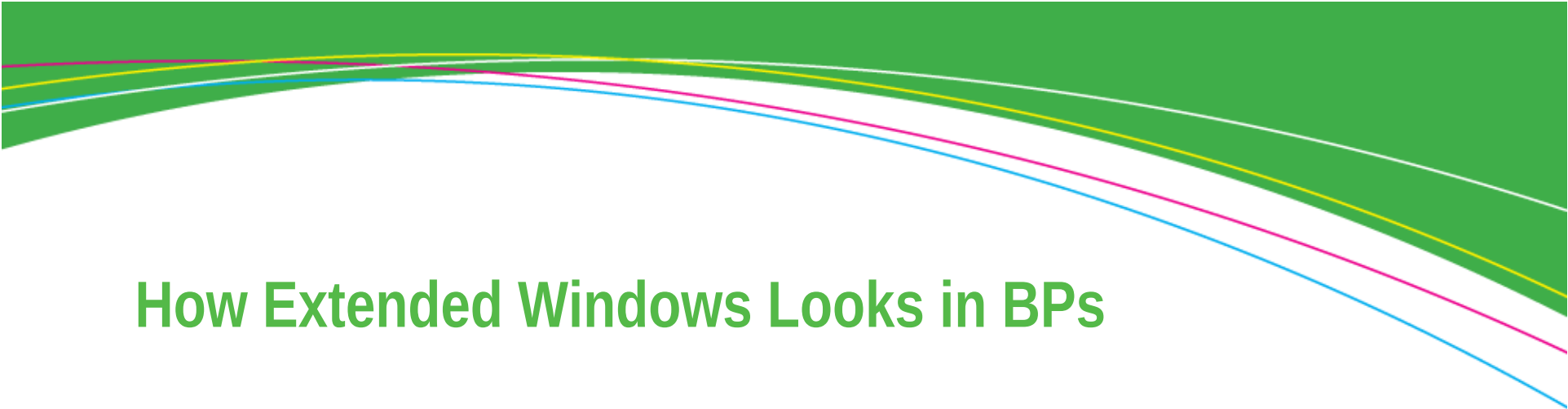
## Daily Firm and Non-Firm - Monday Statutory Holiday

### **DAILY** Firm and Non-Firm

**Martin Luther King's Birthday Jan 16, 2006**

| Time     | Day       |              | Jan<br>11<br>Wednesday | Jan<br>12<br>Thursday | Jan<br>13<br>Friday | Jan<br>14<br>Saturday | Jan<br>15<br>Sunday | Jan<br>16<br>Monday | Jan<br>17<br>Tuesday | Jan<br>18<br>Wednesday |
|----------|-----------|--------------|------------------------|-----------------------|---------------------|-----------------------|---------------------|---------------------|----------------------|------------------------|
| 00:00:00 | Tuesday   | Jan 10, 2006 | X                      | X                     |                     |                       |                     |                     |                      |                        |
| 00:00:00 | Wednesday | Jan 11, 2006 |                        | X                     | X                   |                       |                     |                     |                      |                        |
| 00:00:00 | Thursday  | Jan 12, 2006 |                        |                       | X                   | X                     | X                   | X                   | X                    |                        |
| 00:00:00 | Friday    | Jan 13, 2006 |                        |                       |                     | X                     | X                   | X                   | X                    | X                      |
| 00:00:00 | Saturday  | Jan 14, 2006 |                        |                       |                     |                       | X                   | X                   | X                    | X                      |
| 00:00:00 | Sunday    | Jan 15, 2006 |                        |                       |                     |                       |                     | X                   | X                    | X                      |
| 00:00:00 | Monday    | Jan 16, 2006 |                        |                       |                     |                       |                     |                     | X                    | X                      |

**For example:** The window for purchasing Daily Firm and Non-Firm transmission for Saturday/Sunday/Monday/Tuesday is as follows: Daily Firm and Non-Firm transmission requests for Tuesday Jan 17th can be submitted as early as **00:00:00** Thursday Jan 12, 2006.



# How Extended Windows Looks in BPs

## Daily Firm and Daily Non-Firm

- Daily Firm and Daily Non-Firm requests for Saturday, Sunday and Monday can be submitted as early as 00:00:00 Thursday
- Daily Firm and Daily Non-Firm requests for Tuesday can be submitted as early as 00:00:00 Friday. Holidays as posted on the WECC pre-schedule calendar will affect the bidding window



# Extended Windows and Displacements

## Extended windows affects Displacements

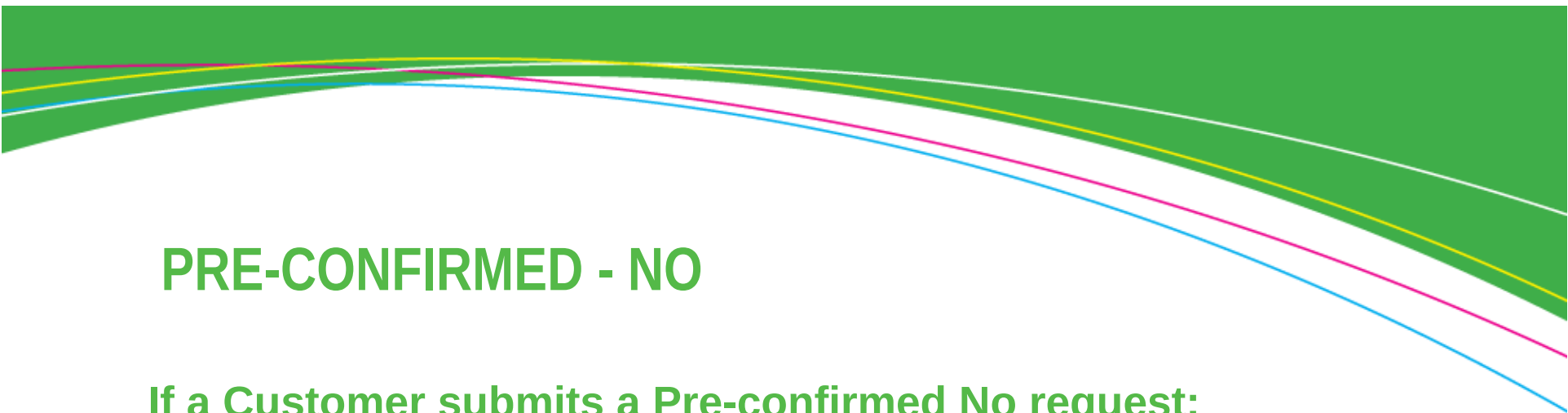
- Hourly transmission for day plus 1 must be QUEUED by 08:59:59 NPD in order to be included in the displacement process
- Requests submitted at 09:00:00 NPD or later **will not** be included in the displacement process and will be satisfied on a first come, first serve basis
- Displacements for day plus 1 are completed at 09:59:59 NPD; however, displacements for day plus 2 will continue until the next applicable NPD



## PRE-CONFIRMED - YES

### If a Customer submits a Pre-confirmed Yes request:

- Once validated by BCTC's scheduling system, the OASIS request is updated to CONFIRMED on OASIS.
  - This request has the Right of First Refusal to match a subsequent request based on duration
  - Cannot be displaced based on price
- A Pre-confirmed YES with a longer duration will immediately supersede a Pre-confirmed NO



## PRE-CONFIRMED - NO

### If a Customer submits a Pre-confirmed No request:

- Once validated by TSS, the request is updated to a temporary status of ACCEPTED on OASIS
  - This request has the Right of First Refusal to match a subsequent request based on Price if duration is equal
  - This request does **not** have the Right of First Refusal to match a subsequent request based on duration
  - For the ACCEPTED request to become a contract the Customer must Confirm the request on OASIS within the Confirmation Timelines. If not CONFIRMED within the confirmation timelines then that request will be RETRACTED.

## Pre-confirmed NO Confirmation Timeline Table

Confirmation Timeline Table

| Class    | Service Increment | Time QUEUED Prior to start | Customer Confirmation Limit after Accepted |
|----------|-------------------|----------------------------|--------------------------------------------|
| Non-Firm | Hourly            | <> 1 Hour                  | 5 minutes                                  |
| Non-Firm | Hourly            | Day ahead                  | 10 minutes                                 |
| Non-Firm | Daily             | N/A                        | 10 minutes                                 |
| Non-Firm | Weekly            | N/A                        | 30 minutes                                 |
| Non-Firm | Monthly           | N/A                        | 2 hours                                    |
| Firm     | Hourly            | <> 1 Hour                  | 5 minutes                                  |
| Firm     | Hourly            | Day ahead                  | 10 minutes                                 |
| Firm     | Daily             | N/A                        | 10 minutes                                 |
| Firm     | Weekly            | N/A                        | 30 minutes                                 |
| Firm     | Monthly           | N/A                        | 2 hours                                    |

BCTC has reduced confirmation timelines to accommodate industry energy scheduling practices

# Hourly Requests - On/Off Peak Pricing

On peak and Off-peak hourly price profiles can be used when submitting an Hourly Transmission request for more than one hour. If for example the request covers on and off-peak hours then the price profile would be \$1.10 for HE06 and \$3.90 for HE07

| Posting Ref               | Provider | Path                | POR          | POD          | Start Time             | Stop Time              | Capacity | Increment | Class    | Type           | Period      | Offer Price |
|---------------------------|----------|---------------------|--------------|--------------|------------------------|------------------------|----------|-----------|----------|----------------|-------------|-------------|
| <a href="#">355007998</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 00:00:00 PS | 2006-01-12 01:00:00 PS | 3780     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 1.1000      |
| <a href="#">355008003</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 01:00:00 PS | 2006-01-12 02:00:00 PS | 4108     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 1.1000      |
| <a href="#">355008008</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 02:00:00 PS | 2006-01-12 03:00:00 PS | 4109     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 1.1000      |
| <a href="#">355008013</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 03:00:00 PS | 2006-01-12 04:00:00 PS | 4109     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 1.1000      |
| <a href="#">355008018</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 04:00:00 PS | 2006-01-12 05:00:00 PS | 4108     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 1.1000      |
| <a href="#">355008023</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 05:00:00 PS | 2006-01-12 06:00:00 PS | 3639     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 1.1000      |
| <a href="#">355008028</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 06:00:00 PS | 2006-01-12 07:00:00 PS | 4068     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 3.9000      |
| <a href="#">355008033</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 07:00:00 PS | 2006-01-12 08:00:00 PS | 3988     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 3.9000      |
| <a href="#">355008038</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 08:00:00 PS | 2006-01-12 09:00:00 PS | 3974     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 3.9000      |
| <a href="#">355008043</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 09:00:00 PS | 2006-01-12 10:00:00 PS | 4023     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 3.9000      |
| <a href="#">355008048</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 10:00:00 PS | 2006-01-12 11:00:00 PS | 3928     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 3.9000      |
| <a href="#">355008053</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 11:00:00 PS | 2006-01-12 12:00:00 PS | 3938     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 3.9000      |
| <a href="#">355008058</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 12:00:00 PS | 2006-01-12 13:00:00 PS | 3993     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 3.9000      |
| <a href="#">355008089</a> | BCTC     | W/BCTC/BCTC - BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 18:00:00 PS | 2006-01-12 19:00:00 PS | 3595     | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | 3.9000      |

# Hourly Requests - On/Off Peak Pricing

Price profiles can be updated using the Create button in the Reservation Profile section when submitting a new transmission request on OASIS

**BCTC Time Zone**  
PS

**Reservation Entry Form V1.4**

BCTC Select Provider Enter TSR Clear Form Save As Template Close

| Seller | Source Sink * | POR POD                     | Service *               | Request Type | Start << >> C            | Stop << >> C             | MW    | Bid Price |
|--------|---------------|-----------------------------|-------------------------|--------------|--------------------------|--------------------------|-------|-----------|
| BCTC   |               | GMS.MCA.REV<br>BC.US.BORDER | HRLY_NON-FIRM_PTP_FIXED | ORIGINAL     | 01/20/2006 PS<br>05 : 00 | 01/20/2006 PS<br>23 : 00 | 226.0 | Get Price |

Customer Path \* Preconfirmed

BCTC BCTC - BPAT ☒

| Posting Ref | Sale Ref | Deal Ref | Request Ref | Related Ref | Comment | Status Notification |
|-------------|----------|----------|-------------|-------------|---------|---------------------|
|             |          |          |             |             |         |                     |

**Reservation Profile**

☐ 25Hr ☐ 24Hr ☒ H ☐ D ☐ W ☐ M ☐ Y ☐ Other ☐ Peak

Create

# Hourly Requests - On/Off Peak Pricing

BCTC Time Zone

PS

Reservation Entry Form V1.4

BCTC

Select Provider

Enter TSR

Clear Form

Save As Template

Close

| Seller | Source Sink * | POR POD                     | Service *               | Request Type | Start << >> C | Stop << >> C | Bid Price<br><small>Get Price</small> |
|--------|---------------|-----------------------------|-------------------------|--------------|---------------|--------------|---------------------------------------|
| BCTC   |               | GMS.MCA.REV<br>BC.US.BORDER | HRLY_NON-FIRM_PTP_FIXED | ORIGINAL     | 01/17/2006    | 01/17/2006   | 5.3000                                |

Customer

Path \*

Preconfirmed

BCTC

BCTC - BPAT

☒

Posting Ref

Sale Ref

Deal Ref

Request Ref

Related Ref

Comment

Status Notification

Reservation Profile

☐ 25Hr
 ☐ 24Hr
 ☒ H
 ☐ D
 ☐ W
 ☐ M
 ☐ Y
 ☐ Other
 ☐ Peak

| Start            | Stop                | MW    | Price        |
|------------------|---------------------|-------|--------------|
| 01/17/2006 5:00  | PS 01/17/2006 6:00  | PS 30 | + 3.1 + *    |
| 01/17/2006 6:00  | PS 01/17/2006 7:00  | PS 30 | + 5.3000 + * |
| 01/17/2006 7:00  | PS 01/17/2006 8:00  | PS 30 | + 5.3000 + * |
| 01/17/2006 8:00  | PS 01/17/2006 9:00  | PS 30 | + 5.3000 + * |
| 01/17/2006 9:00  | PS 01/17/2006 10:00 | PS 30 | + 5.3000 + * |
| 01/17/2006 10:00 | PS 01/17/2006 11:00 | PS 30 | + 5.3000 + * |
| 01/17/2006 11:00 | PS 01/17/2006 12:00 | PS 30 | + 5.3000 + * |
| 01/17/2006 12:00 | PS 01/17/2006 13:00 | PS 30 | + 5.3000 + * |
| 01/17/2006 13:00 | PS 01/17/2006 14:00 | PS 30 | + 5.3000 + * |

# Hourly Requests - On/Off Peak Pricing

Enter TSR and submit to OASIS

Enter TSR   Clear Form   Save As Template

|                             |                         |                 |               |                                     |
|-----------------------------|-------------------------|-----------------|---------------|-------------------------------------|
| PORT<br>POD                 | Service *               | Request<br>Type | Start << >> C | Stop << >>                          |
| GMS.MCA.REV<br>BC.US.BORDER | HRLY_NON-FIRM_PTP_FIXED | ORIGINAL        | 01/12/2006    | 01/13/2006                          |
| h *                         |                         |                 |               | Preconfirmed                        |
| TC - BPAT                   |                         |                 |               | <input checked="" type="checkbox"/> |

| Reservation Profile           |                               |                                       |                            |                            |                            |                            |                            |
|-------------------------------|-------------------------------|---------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| <input type="checkbox"/> 25Hr | <input type="checkbox"/> 24Hr | <input checked="" type="checkbox"/> H | <input type="checkbox"/> D | <input type="checkbox"/> W | <input type="checkbox"/> M | <input type="checkbox"/> Y | <input type="checkbox"/> O |
| Start                         |                               |                                       |                            | Stop                       |                            |                            |                            |
| 01/12/2006                    | 0:00                          | PS                                    | 01/12/2006                 | 1:00                       | PS                         | 1.1                        |                            |
| 01/12/2006                    | 1:00                          | PS                                    | 01/12/2006                 | 2:00                       | PS                         | 1.1                        |                            |
| 01/12/2006                    | 2:00                          | PS                                    | 01/12/2006                 | 3:00                       | PS                         | 1.1                        |                            |
| 01/12/2006                    | 3:00                          | PS                                    | 01/12/2006                 | 4:00                       | PS                         | 1.1                        |                            |

## Daily Requests - Different Price Profiles

Daily Reservations are a flat Price Profile for each day. However, different daily prices can be bid when submitting a Daily transmission request for more than one day. For example: if the duration of the request is 3 days, then the price profile would be \$2.9 for Jan 13 and 14 and \$1.1 for Jan 15

| Posting Ref               | Provider | Path             | POR          | POD          | Start Time             | Stop Time              | Capacity | Increment | Class    | Offer Price |
|---------------------------|----------|------------------|--------------|--------------|------------------------|------------------------|----------|-----------|----------|-------------|
| <a href="#">343401417</a> | BCTC     | WBCTC/BCTC-BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-11 00:00:00 PS | 2006-01-12 00:00:00 PS | 1616     | DAILY     | NON-FIRM | 2.9000      |
| <a href="#">343746545</a> | BCTC     | WBCTC/BCTC-BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-12 00:00:00 PS | 2006-01-13 00:00:00 PS | 1616     | DAILY     | NON-FIRM | 2.9000      |
| <a href="#">344093857</a> | BCTC     | WBCTC/BCTC-BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-13 00:00:00 PS | 2006-01-14 00:00:00 PS | 1616     | DAILY     | NON-FIRM | 2.9000      |
| <a href="#">344459957</a> | BCTC     | WBCTC/BCTC-BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-14 00:00:00 PS | 2006-01-15 00:00:00 PS | 1616     | DAILY     | NON-FIRM | 2.9000      |
| <a href="#">344824400</a> | BCTC     | WBCTC/BCTC-BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-15 00:00:00 PS | 2006-01-16 00:00:00 PS | 1616     | DAILY     | NON-FIRM | 1.1000      |
| <a href="#">345184711</a> | BCTC     | WBCTC/BCTC-BPAT# | BCTC.NETWORK | BC.US.BORDER | 2006-01-16 00:00:00 PS | 2006-01-17 06:00:00 PS | 1616     | DAILY     | NON-FIRM | 2.9000      |

# Daily Requests - Different Price Profiles

Price profiles can be updated using the Edit Profile button in the Dates and Times section when submitting a new transmission request on OASIS

**Reservation Entry Form V1.4**

BCTC Time Zone: PS

BCTC Select Provider Enter TSR Clear Form Save As Template Close

|               |                      |                             |                         |                     |              |             |                  |
|---------------|----------------------|-----------------------------|-------------------------|---------------------|--------------|-------------|------------------|
| <b>Seller</b> | <b>Source Sink *</b> | <b>POR POD</b>              | <b>Service *</b>        | <b>Request Type</b> | <b>Start</b> | <b>Stop</b> | <b>Bid Price</b> |
| BCTC          |                      | GMS.MCA.REV<br>BC.US.BORDER | HRLY_NON-FIRM_PTP_FIXED | ORIGINAL            | 01/17/2006   | 01/17/2006  | 5.3000           |

**Customer** BCTC **Path \*** BCTC - BPAT **Preconfirmed** ☒

|                            |  |
|----------------------------|--|
| <b>Posting Ref</b>         |  |
| <b>Sale Ref</b>            |  |
| <b>Deal Ref</b>            |  |
| <b>Request Ref</b>         |  |
| <b>Related Ref</b>         |  |
| <b>Comment</b>             |  |
| <b>Status Notification</b> |  |

| Reservation Profile           |                               |                                       |                            |                            |                            |                            |                                   |                                     |              |
|-------------------------------|-------------------------------|---------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------------|-------------------------------------|--------------|
| <input type="checkbox"/> 25Hr | <input type="checkbox"/> 24Hr | <input checked="" type="checkbox"/> H | <input type="checkbox"/> D | <input type="checkbox"/> W | <input type="checkbox"/> M | <input type="checkbox"/> Y | <input type="checkbox"/> Other MW | <input type="checkbox"/> Peak Price |              |
|                               |                               | <b>Start</b>                          |                            |                            |                            | <b>Stop</b>                |                                   |                                     |              |
|                               |                               | 01/17/2006 5:00                       | PS                         |                            |                            | 01/17/2006 6:00            | PS                                | 30                                  | + 3.1 + *    |
|                               |                               | 01/17/2006 6:00                       | PS                         |                            |                            | 01/17/2006 7:00            | PS                                | 30                                  | + 5.3000 + * |
|                               |                               | 01/17/2006 7:00                       | PS                         |                            |                            | 01/17/2006 8:00            | PS                                | 30                                  | + 5.3000 + * |
|                               |                               | 01/17/2006 8:00                       | PS                         |                            |                            | 01/17/2006 9:00            | PS                                | 30                                  | + 5.3000 + * |
|                               |                               | 01/17/2006 9:00                       | PS                         |                            |                            | 01/17/2006 10:00           | PS                                | 30                                  | + 5.3000 + * |
|                               |                               | 01/17/2006 10:00                      | PS                         |                            |                            | 01/17/2006 11:00           | PS                                | 30                                  | + 5.3000 + * |
|                               |                               | 01/17/2006 11:00                      | PS                         |                            |                            | 01/17/2006 12:00           | PS                                | 30                                  | + 5.3000 + * |
|                               |                               | 01/17/2006 12:00                      | PS                         |                            |                            | 01/17/2006 13:00           | PS                                | 30                                  | + 5.3000 + * |
|                               |                               | 01/17/2006 13:00                      | PS                         |                            |                            | 01/17/2006 14:00           | PS                                | 30                                  | + 5.3000 + * |

- Change Bid Price under the Reservation Profile, Click on Enter TSR then Submit. Same method as described on Hourly Price Profiles slides



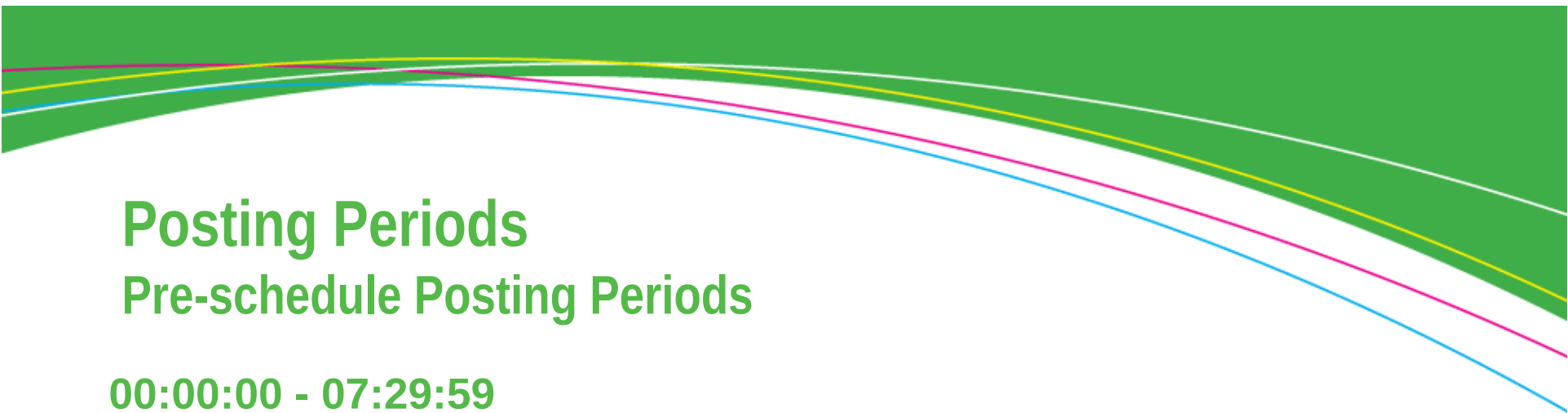
# Weekly and Monthly Price Profiles

## Weekly

- Weekly prices are not posted on OASIS; however, a weekly price for the first week can be discerned from OASIS
- Price for a weekly reservation can be determined by contacting the Pre-schedule Office

## Monthly

- The Customer must bid one price for the duration of the request



# Posting Periods

## Pre-schedule Posting Periods

### 00:00:00 - 07:29:59

At midnight automation triggers that day's first posting of hourly TTC/ATC to OASIS. Thereafter TTC/ATC updates are uploaded to OASIS every 5 minutes.

### 17:00:00 - 23:59:59

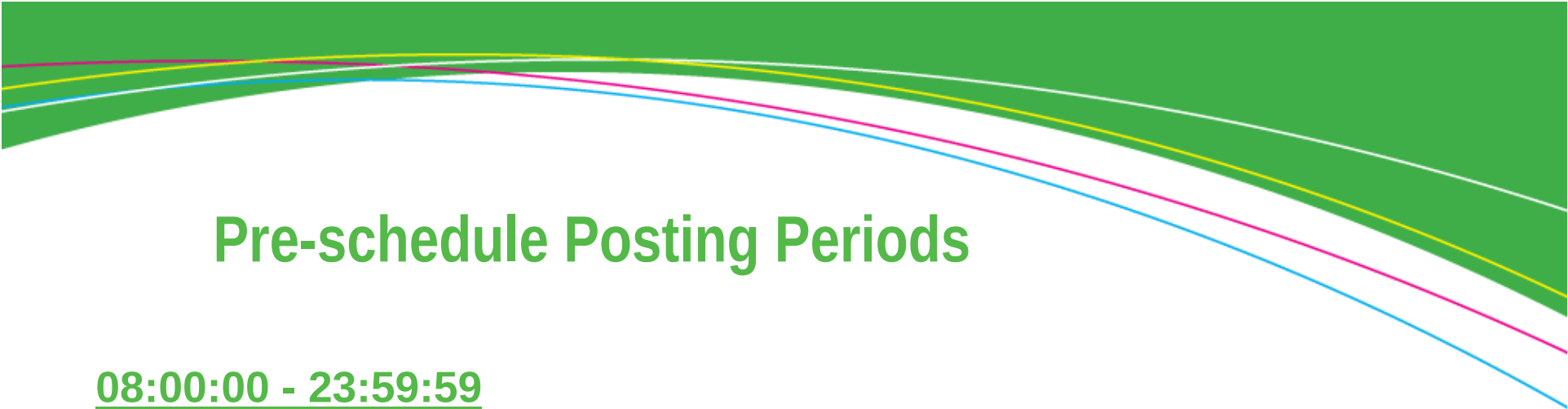
At approximately 17:00:00 NPD and only if Pre-schedule has completed the checkout with its adjacent Balancing Authorities, the windows for Daily Firm and Non-Firm transmission are open based on Extended Windows

# Pre-schedule Posting Periods

## 07:30:00 - 07:59:59

OASIS transmission requests received during this period will be marked INVALID and the 5 minute interval OASIS uploads of TTC/ATC are halted. This improves efficiency of the simultaneous posting of (hourly, daily, monthly) TTC/ATC and prices, which occurs during this time.

- If the morning posting concludes before 07:55:00 then the next posting will be 08:00:00
- If the morning posting concludes between 07:55:00 and 08:09:59 then the next posting will be 08:15:00
- If the morning posting concludes between 08:10:00 and 08:24:59 then the next posting will be 08:30:00
- If the morning posting concludes between 08:25:00 and 08:39:59 then the next posting will be 08:45:00.



## Pre-schedule Posting Periods

### 08:00:00 - 23:59:59

Hourly and daily TTC/ATC postings for next working day are automatically posted hourly and daily to OASIS every 5 minutes with the exceptions of posting frequency variances.

Any changes to the above mentioned postings are uploaded every 5 minutes.

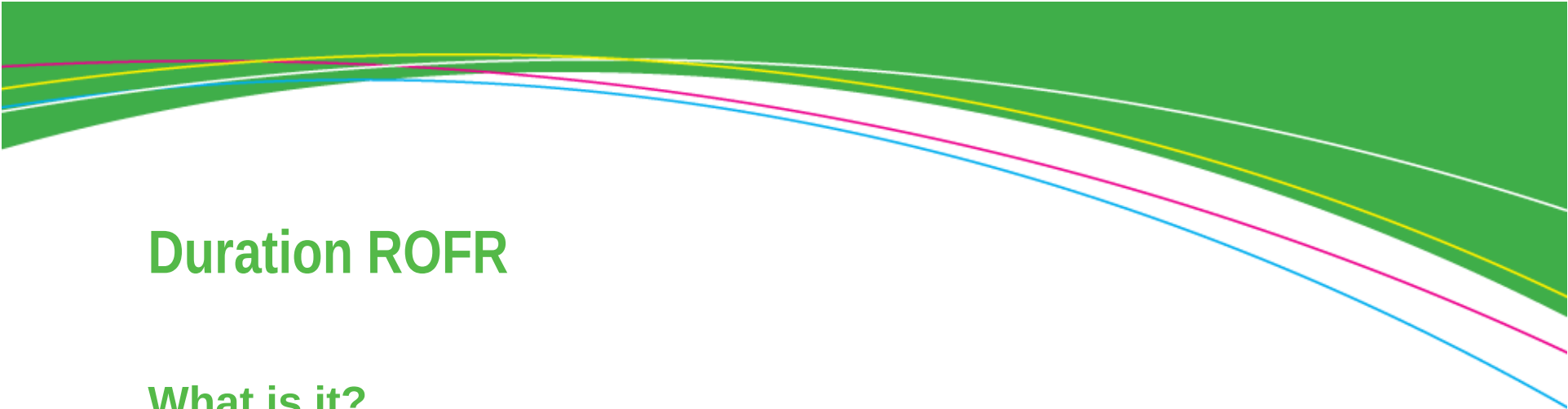
TTC/ATC postings for future days are also posted by the pre-schedule office on or after 17:00.



## Real-time Posting Periods

00:00:00 - 23:59:59

ATC is uploaded to OASIS every 5 minutes with the exceptions of posting frequency variances noted earlier.



## Duration ROFR

### What is it?

Right of First Refusal (ROFR) allows an earlier CONFIRMED request with a shorter duration the opportunity to match a Competing Request with a longer duration

# MATCHING - Duration ROFR

## Duration ROFR - how will the customer know?

BCTC will make one attempt to notify the CONFIRMED customer to inform them they have the opportunity to exercise their ROFR (match request) to avoid being displaced

If the customer is reached the customer must state their willingness to match

If the customer is not reached then a detailed message will be left giving specifics such as:

- the OASIS number
- the required match (duration or price)
- the time the message was left
- when the OASIS Expiry Timer was started

A timer is started by the Pre-scheduler at the time contact is made or when the message is left

- NOTE: It is the responsibility of the customer to ensure that we have the correct contact information for their company and to be available during the displacement process

## MATCHING - Duration ROFR cont'd

**Matching Timeline Table**

| Class    | Service Increment | Time QUEUED Prior to start | Customer Confirmation Limit for Matching |
|----------|-------------------|----------------------------|------------------------------------------|
| Non-Firm | Hourly            | <> 1 Hour                  | N/A                                      |
| Non-Firm | Hourly            | Day ahead                  | 10 minutes                               |
| Non-Firm | Daily             | N/A                        | 10 minutes                               |
| Non-Firm | Weekly            | N/A                        | 30 minutes                               |
| Non-Firm | Monthly           | N/A                        | 2 hours                                  |
| Firm     | Hourly            | <> 1 Hour                  | N/A                                      |
| Firm     | Hourly            | Day ahead                  | 10 minutes                               |
| Firm     | Daily             | N/A                        | 10 minutes                               |
| Firm     | Weekly            | N/A                        | 30 minutes                               |
| Firm     | Monthly           | N/A                        | 2 hours                                  |

- Matching for day plus 1 must be completed within the confirmation limit or processed by 09:59:59 NPD, whichever comes first



## MATCHING - Duration ROFR cont'd

**Customer** has **one** opportunity to submit a valid Matching Request within the matching timelines

**Customer** can **reduce, match** but NOT exceed **original MW value**, and **must match or exceed duration** of the competing request

Match request must be a flat MW profile

Price must be equal to or greater than the posted price for the entire period

## MATCHING - Duration ROFR cont'd

### How to MATCH on OASIS?

- BCTC has 100MW of Hourly Non-firm ATC for HE01 - HE24 available for day ahead transmission on BC>AESO.
- Customer A has a Duration of 3 on a CONFIRMED request (first in) for HE18 - HE20 for 100MW Hourly Non-Firm ATC
- Customer B has a Duration of 16 on a Queued request (second in) for HE7 - HE22 for 100MW Hourly Non-Firm ATC

### This initiates the Displacement Process

- Customer A is contacted and states YES to MATCH
- BCTC initiates the Expiry Timer sending a message to OASIS and at the same time reminds Customer A they have 10 minutes to submit a correct MATCH. Customer has until 09:59:59 to do so if displacement is for Day +1.

# Submitting a Match on OASIS

## To match a customer must:

- Retrieve the original request
- Click the “Create new TSR” button
- Choose the Request Type to “MATCHING”
- Enter the Related Ref number of the original Request
- Change the duration and/or price to at least match the competing request
- Click on the Submit button to complete the match request

## Matching - Duration ROFR cont'd

**Transmission Reservation Detail** **69781452 DISPLACED**

Customer Update
Create New TSR
Print view

| Order | Source Sink | POR<br>POD           | Request Type | Start                  | Stop                   | MW Req | MW Grant | Bid Price | Offer Price |
|-------|-------------|----------------------|--------------|------------------------|------------------------|--------|----------|-----------|-------------|
| BCTC  |             | GMS.MCA.REV<br>AB.BC | ORIGINAL     | 2006-11-25<br>17:00 PS | 2006-11-25<br>20:00 PS | 100    | 100      | 5.30      | 5.30        |

Path: W/BCTC/BCTC - AESO//

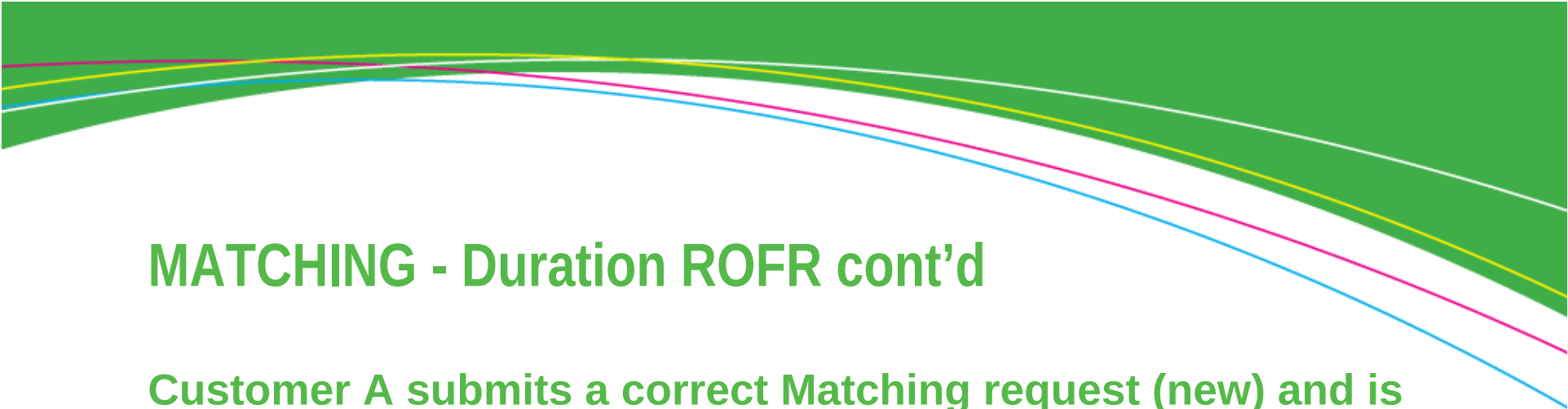
| Service Code           | Increment | Class    | Type           | Period      |
|------------------------|-----------|----------|----------------|-------------|
| ILY_NON-FIRM_PTP_FIXED | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD |

econfirmed: Yes      Competing: Yes      Negotiated: No      Nerc Priority: 1

| Reservation Profile    |                        |        |          |        |           |             |
|------------------------|------------------------|--------|----------|--------|-----------|-------------|
| Start Date             | Stop Date              | MW Req | MW Grant | MWH    | Bid Price | Offer Price |
| 2006-11-25<br>17:00 PS | 2006-11-25<br>20:00 PS | 100    | 100      | 300.00 | 5.30      | 5.30        |
| <b>Profile Total:</b>  |                        |        |          | 300.00 |           |             |

11/25/2006

| Comments |                                        |  | Times   |                        |
|----------|----------------------------------------|--|---------|------------------------|
| Status   |                                        |  | Queued  | 2006-11-23 13:07:53 PS |
| Sender   | Replaced by 69781454 to match 69781453 |  | Updated | 2006-11-23 13:14:50 PS |



## MATCHING - Duration ROFR cont'd

**Customer A submits a correct Matching request (new) and is CONFIRMED.**

- If Customer A does not submit a matching request within the timelines, the original transmission request will be DISPLACED

## MATCHING - Duration ROFR cont'd

**Transmission Reservation Detail 69781452 DISPLACED**

Customer Update      Create New TSR      Print View

| Seller | Source Sink | POR<br>POD           | Request<br>Type | Start                  | Stop                   | MW<br>Req | MW<br>Grant | Bid<br>Price | Offer<br>Price |
|--------|-------------|----------------------|-----------------|------------------------|------------------------|-----------|-------------|--------------|----------------|
| BCTC   |             | GMS.MCA.REV<br>AB.BC | ORIGINAL        | 2006-11-25<br>17:00 PS | 2006-11-25<br>20:00 PS | 100       | 100         | 5.30         | 5.30           |

Path: W/BCTC/BCTC - AESO//

| Service Code           | Increment | Class    | Type           | Period      |
|------------------------|-----------|----------|----------------|-------------|
| RLY_NON-FIRM_PTP_FIXED | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD |

Reconfirmed: Yes      Competing: Yes      Negotiated: No      Nerc Priority: 1

**Reservation Profile**

| Start Date             | Stop Date              | MW<br>Req | MW<br>Grant | MWH    | Bid<br>Price | Offer<br>Price |
|------------------------|------------------------|-----------|-------------|--------|--------------|----------------|
| 2006-11-25<br>17:00 PS | 2006-11-25<br>20:00 PS | 100       | 100         | 300.00 | 5.30         | 5.30           |
| <b>Profile Total:</b>  |                        |           |             | 300.00 |              |                |

**11/25/2006**

| Comments |                                        | Times   |                     |
|----------|----------------------------------------|---------|---------------------|
| Status   |                                        | Queued  | 2006-11-23 13:07:53 |
| Seller   | Replaced by 69781454 to match 69781453 | Updated | 2006-11-23 13:14:50 |

## MATCHING - Duration ROFR cont'd

**Transmission Reservation Detail** **69781453 REFUSED**

Customer Update
Create New TSR
Print View

| Seller | Source Sink | POR POD              | Request Type | Start                  | Stop                   | MW Req | MW Grant | Bid Price | Offer Price |
|--------|-------------|----------------------|--------------|------------------------|------------------------|--------|----------|-----------|-------------|
| CTC    |             | GMS.MCA.REV<br>AB.BC | ORIGINAL     | 2006-11-25<br>06:00 PS | 2006-11-25<br>22:00 PS | 100    |          | 5.30      |             |

Path: W/BCTC/BCTC - AESO//

| Service Code           | Increment | Class    | Type           | Period      |
|------------------------|-----------|----------|----------------|-------------|
| RLY_NON-FIRM_PTP_FIXED | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD |

reconfirmed: Yes      Competing: No      Negotiated: No      Nerc Priority: 1

**Reservation Profile**

| Start Date             | Stop Date              | MW Req | MW Grant | MWH     | Bid Price | Offer Price |
|------------------------|------------------------|--------|----------|---------|-----------|-------------|
| 2006-11-25<br>06:00 PS | 2006-11-25<br>22:00 PS | 100    |          | 1600.00 | 5.30      |             |
| <b>Profile Total:</b>  |                        |        |          | 1600.00 |           |             |

| Comments |                  |  | Times   |                     |
|----------|------------------|--|---------|---------------------|
| Status   |                  |  | Queued  | 2006-11-23 13:09:50 |
| Seller   | No available ATC |  | Updated | 2006-11-23 13:15:07 |



# Duration Scenarios

**This section will describe the following scenarios:**

- 1 Yes to MATCH - Match is correct
- 2 Yes to MATCH - Match is incorrect
- 3 No to MATCH
- 4 Yes to MATCH – After displacement is complete ATC available
- 5 Yes to MATCH - Timeline expired and No to MATCH
- 6 Yes to MATCH - ATC not available for the Match
- 7 Pre-confirmed NO vs Pre-confirmed YES - same duration
- 8 Pre-confirmed NO vs Pre-confirmed YES - longer duration

# Duration - Scenario 1

Scenario 1 describes YES to MATCH and MATCH is correct.

- The constrained path is AESO>BCTC for Day plus 1
- Reservation #100 for AESO>BPAT is CONFIRMED with a 2 hour duration
- Competing Request #200 has a 3 hour duration

| Initial Posting       |           | HE | 01  | 02  | 03 | 04 | Duration |
|-----------------------|-----------|----|-----|-----|----|----|----------|
| AESO>BCTC             |           |    | 25  | 25  | 25 | 25 |          |
| CONFIRMED RESERVATION |           |    |     |     |    |    |          |
| 100                   | AESO>BPAT |    | 25  | 25  |    |    | 2        |
| REMAINING ATC         |           |    | 0   | 0   | 25 |    |          |
| COMPETING REQUEST     |           |    |     |     |    |    |          |
| 200                   | AESO>BPAT |    | 25  | 25  | 25 |    | 3        |
| REMAINING ATC         |           |    | -25 | -25 | 0  |    |          |

## Duration - Scenario 1 cont'd

Reservation #100 says YES and submits a correct MATCH

| Initial Posting              |                                    | AESO>BCTC | HE | 01         | 02         | 03         |                 |
|------------------------------|------------------------------------|-----------|----|------------|------------|------------|-----------------|
|                              |                                    |           |    | 25         | 25         | 25         |                 |
| <b>CONFIRMED RESERVATION</b> |                                    |           |    |            |            |            | <b>Duration</b> |
|                              | MATCH 300                          | AESO>BPAT |    | 25         | 25         | 25         | <b>3</b>        |
|                              | <b>REMAINING ATC</b>               |           |    | <b>0</b>   | <b>0</b>   | <b>0</b>   |                 |
|                              | 100                                | AESO>BPAT |    | 25         | 25         |            | <b>2</b>        |
|                              | <b>replaced by 300</b>             |           |    | <b>-25</b> | <b>-25</b> |            | <b>-2</b>       |
|                              | 200                                | AESO>BPAT |    | 25         | 25         | 25         | <b>3</b>        |
|                              | <b>Refused - ATC not Available</b> |           |    | <b>-25</b> | <b>-25</b> | <b>-25</b> |                 |
|                              | <b>REMAINING ATC</b>               |           |    | <b>0</b>   | <b>0</b>   | <b>0</b>   |                 |

- Reservation #100 is replaced BY MATCH #300
- Competing Request #200 is REFUSED, ATC not available
- Remaining ATC = ZERO

## Duration - Scenario 2

Scenario 2 describes YES to MATCH and MATCH is incorrect.

- The constrained path is AESO>BCTC for Day plus 1
- Reservation #100 for AESO>BPAT (WT) is CONFIRMED with a 2 hour duration
- Competing Request #200 has a 3 hour duration

|                       |     | HE        | 01  | 02  | 03 | 04 |          |
|-----------------------|-----|-----------|-----|-----|----|----|----------|
| Initial Posting       |     | AESO>BCTC | 25  | 25  | 25 | 25 |          |
| CONFIRMED RESERVATION |     |           |     |     |    |    | Duration |
|                       | 100 | AESO>BPAT | 25  | 25  |    |    | 2        |
| REMAINING ATC         |     |           | 0   | 0   | 25 |    |          |
| COMPETING REQUEST     |     | AESO>BPAT |     |     |    |    |          |
|                       | 200 |           | 25  | 25  | 25 |    | 3        |
| REMAINING ATC         |     |           | -25 | -25 | 0  |    |          |

## Duration - Scenario 2 cont'd

Reservation #100 says YES and submits an incorrect MATCH

| Initial Posting              |                                  |     |           | HE | 1   | 2   | 3  | Duration |
|------------------------------|----------------------------------|-----|-----------|----|-----|-----|----|----------|
| BCTC>AESO                    |                                  |     |           |    | 25  | 25  | 25 |          |
| <b>CONFIRMED RESERVATION</b> |                                  |     |           |    |     |     |    |          |
|                              |                                  | 200 | AESO>BPAT |    | 25  | 25  | 25 | 3        |
|                              | <b>REMAINING ATC</b>             |     |           |    | 0   | 0   | 0  |          |
|                              |                                  | 100 | AESO>BPAT |    | 25  | 25  |    | 2        |
|                              | <b>DISPLACED by 200</b>          |     |           |    | -25 | -25 |    | -2       |
|                              |                                  | 300 | AESO>BPAT |    | 25  | 25  |    | 2        |
|                              | <b>INVALID - Incorrect Match</b> |     |           |    | -25 | -25 |    | -2       |
|                              | <b>REMAINING ATC</b>             |     |           |    | 0   | 0   | 0  |          |

- MATCH Request #300 is INVALID
- Reservation #100 is Displaced by #200
- Reservation #200 is CONFIRMED
- Remaining ATC = ZERO

## Duration - Scenario 3

### Scenario 3 describes NO to MATCH.

- The constrained path is AESO>BCTC for Day plus 1
- Reservation #100 for AESO>BCTC (WT) is CONFIRMED with a 2 hour duration
- Competing Request #200 has a 3 hour duration

|  |                              |                     | HE        | 01         | 02         | 03        | 04 | Duration        |
|--|------------------------------|---------------------|-----------|------------|------------|-----------|----|-----------------|
|  | <b>Initial Posting</b>       | <b>AESO&gt;BCTC</b> | <b>25</b> | <b>25</b>  | <b>25</b>  | <b>25</b> |    |                 |
|  |                              |                     |           |            |            |           |    |                 |
|  | <b>CONFIRMED RESERVATION</b> |                     |           |            |            |           |    | <b>DURATION</b> |
|  |                              | 100                 | AESO>BPAT | 25         | 25         |           |    | <b>2</b>        |
|  | <b>REMAINING ATC</b>         |                     |           | <b>0</b>   | <b>0</b>   | <b>25</b> |    |                 |
|  |                              |                     |           |            |            |           |    |                 |
|  | <b>COMPETING REQUEST</b>     |                     | AESO>BPAT |            |            |           |    |                 |
|  |                              | 200                 |           | 25         | 25         | 25        |    | <b>3</b>        |
|  | <b>REMAINING ATC</b>         |                     |           | <b>-25</b> | <b>-25</b> | <b>0</b>  |    |                 |

## Duration - Scenario 3

- Reservation #100 says NO to MATCH
- Competing Request #200 is CONFIRMED
- Reservation #100 is DISPLACED immediately by #200
- Remaining ATC = ZERO

|                              |                         | HE                  | 1          | 2          | 3         |                 |
|------------------------------|-------------------------|---------------------|------------|------------|-----------|-----------------|
|                              | <b>Initial Posting</b>  | <b>AESO&gt;BCTC</b> | <b>25</b>  | <b>25</b>  | <b>25</b> |                 |
| <b>CONFIRMED RESERVATION</b> |                         |                     |            |            |           | <b>DURATION</b> |
|                              | 200                     | AESO>BPAT           | 25         | 25         | 25        | <b>3</b>        |
|                              | <b>REMAINING ATC</b>    |                     | <b>0</b>   | <b>0</b>   | <b>0</b>  |                 |
|                              | 100                     | AESO>BPAT           | 25         | 25         |           | <b>2</b>        |
|                              | <b>DISPLACED by 200</b> |                     | <b>-25</b> | <b>-25</b> |           | <b>-2</b>       |
|                              | <b>REMAINING ATC</b>    |                     | <b>0</b>   | <b>0</b>   | <b>0</b>  |                 |



## Duration - Scenario 4

Scenario 4 will describe YES to MATCH with Remaining ATC available after completion of Displacements

- The constrained path is BCTC>AESO for Day plus 1
- Reservation #100 for 2 hour duration and Reservation #200 for 12 hour duration has been CONFIRMED
- Competing Request #300 is RECEIVED

## Duration - Scenario 4 cont'd

|                               |                        | HE                  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17  | 18  | 19  | 20 | 21 | 22 |                 |
|-------------------------------|------------------------|---------------------|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|----|----|----|-----------------|
|                               | <b>Initial Posting</b> | <b>BCTC&gt;AESO</b> | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 75 | 50  | 50  | 100 | 75 | 50 | 50 |                 |
| <b>CONFIRMED RESERVATIONS</b> |                        |                     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    | <b>DURATION</b> |
|                               | 100                    | BPAT>AESO           |    |    |    |    |    |    |    |    |    |    | 25  | 25  |     |    |    |    | 2               |
|                               | 200                    | BPAT>AESO           |    |    |    |    | 25 | 25 | 25 | 25 | 25 | 25 | 25  | 25  | 25  | 25 | 25 | 25 | 12              |
|                               | <b>REMAINING ATC</b>   |                     | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 25 | 25 | 50 | 0   | 0   | 75  | 50 | 25 | 25 |                 |
| <b>COMPETING REQUEST</b>      |                        |                     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |                 |
|                               | 300                    | BPAT>AESO           |    |    |    |    |    |    |    | 25 | 25 | 25 | 25  | 25  | 25  | 25 |    |    | 7               |
|                               | <b>REMAINING ATC</b>   |                     | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 0  | 0  | 25 | -25 | -25 | 50  | 25 | 25 | 25 |                 |

- Reservation #200 has a longer duration and cannot be displaced by #300
- Reservation #100 with a shorter duration can be displaced by #300, however #100 has the right to Match

## Duration - Scenario 4 cont'd

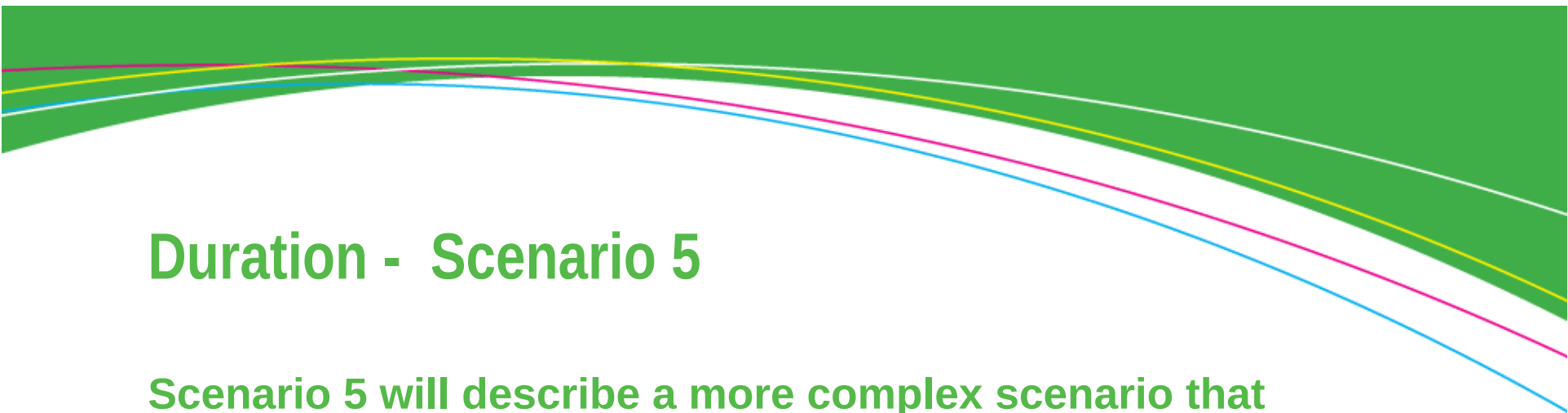
|                               |                                    | HE                  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21 | 22 |                 |
|-------------------------------|------------------------------------|---------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|-----------------|
|                               | <b>Initial Posting</b>             | <b>BCTC&gt;AESO</b> | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50  | 50  | 75  | 50  | 50  | 100 | 75  | 50 | 50 |                 |
| <b>CONFIRMED RESERVATIONS</b> |                                    |                     |    |    |    |    |    |    |    |     |     |     |     |     |     |     |    |    | <b>DURATION</b> |
|                               | 400                                | BPAT>AESO           |    |    |    |    |    |    |    | 25  | 25  | 25  | 25  | 25  | 25  | 25  |    |    | 7               |
|                               | 200                                | BPAT>AESO           |    |    |    |    | 25 | 25 | 25 | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25 | 25 | 12              |
|                               | <b>REMAINING ATC</b>               |                     | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 0   | 0   | 25  | 0   | 0   | 50  | 25  | 25 | 25 |                 |
|                               | 100                                | BPAT>AESO           |    |    |    |    |    |    |    |     |     |     | 25  | 25  |     |     |    |    | 2               |
|                               | <b>Replaced by Request #400</b>    |                     |    |    |    |    |    |    |    |     |     |     | -25 | -25 |     |     |    |    | -2              |
|                               | <b>REMAINING ATC</b>               |                     | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 0   | 0   | 25  | 0   | 0   | 50  | 25  | 25 | 25 |                 |
|                               | 300                                | BPAT>AESO           |    |    |    |    |    |    |    | 25  | 25  | 25  | 25  | 25  | 25  | 25  |    |    | 7               |
|                               | <b>REFUSED - ATC not available</b> |                     |    |    |    |    |    |    |    | -25 | -25 | -25 | -25 | -25 | -25 | -25 |    |    | -7              |
|                               | <b>REMAINING ATC</b>               |                     | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 0   | 0   | 25  | 0   | 0   | 50  | 25  | 25 | 25 |                 |

- Reservation #100 says Yes to Match and is replaced by correct MATCH #400
- Request #300 is REFUSED, ATC not available
- Remaining ATC = varied

## Duration - Scenario 4 cont'd

|                               |                                    | HE                  | 7         | 8         | 9         | 10        | 11        | 12        | 13        | 14         | 15         | 16         | 17         | 18         | 19         | 20         | 21        | 22        |                 |
|-------------------------------|------------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------------|
|                               | <b>Initial Posting</b>             | <b>BCTC&gt;AESO</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b>  | <b>50</b>  | <b>75</b>  | <b>50</b>  | <b>50</b>  | <b>100</b> | <b>75</b>  | <b>50</b> | <b>50</b> |                 |
| <b>CONFIRMED RESERVATIONS</b> |                                    |                     |           |           |           |           |           |           |           |            |            |            |            |            |            |            |           |           | <b>DURATION</b> |
|                               | 400                                | BPAT>AESO           |           |           |           |           |           |           |           | 25         | 25         | 25         | 25         | 25         | 25         | 25         |           |           | <b>7</b>        |
|                               | 200                                | BPAT>AESO           |           |           |           |           | 25        | 25        | 25        | 25         | 25         | 25         | 25         | 25         | 25         | 25         | 25        | 25        | <b>12</b>       |
|                               | 500                                | BPAT>AESO           | 50        | 50        | 50        | 50        | 25        | 25        | 25        |            |            | 25         |            |            | 50         | 25         | 25        | 25        | <b>1</b>        |
|                               | <b>REMAINING ATC</b>               |                     | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>  | <b>0</b>  |                 |
|                               | 100                                | BPAT>AESO           |           |           |           |           |           |           |           |            |            |            | 25         | 25         |            |            |           |           | <b>2</b>        |
|                               | <b>Replaced by Request #400</b>    |                     |           |           |           |           |           |           |           |            |            |            | <b>-25</b> | <b>-25</b> |            |            |           |           | <b>-2</b>       |
|                               | <b>REMAINING ATC</b>               |                     | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>  | <b>0</b>  |                 |
|                               | 300                                | BPAT>AESO           |           |           |           |           |           |           |           | 25         | 25         | 25         | 25         | 25         | 25         | 25         |           |           | <b>7</b>        |
|                               | <b>REFUSED - ATC not available</b> |                     |           |           |           |           |           |           |           | <b>-25</b> | <b>-25</b> | <b>-25</b> | <b>-25</b> | <b>-25</b> | <b>-25</b> | <b>-25</b> |           |           | <b>-7</b>       |
|                               | <b>REMAINING ATC</b>               |                     | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>  | <b>0</b>  |                 |

- Reservation #100 has been replaced by #400. Reservation #300 is not offered a COUNTEROFFER due to ATC not being available for all hours of their request and is REFUSED.
- Request #500 is submitted after the displacement process has completed and cannot be displaced further for Day Plus 1.(Note duration)



## Duration - Scenario 5

**Scenario 5 will describe a more complex scenario that includes:**

- YES to MATCH with timeline expired
- secondly NO to MATCH
- The constrained path is BCTC > AESO
- Reservations #2000, #3000, #4000 and #5000 on BPAT > AESO are CONFIRMED
- Competing Request #6000 is RECEIVED

## Duration - Scenario 5 cont'd

|                               |      | HE                  | 7         | 8         | 9         | 10        | 11        | 12        | 13        | 14        | 15        | 16        | 17         | 18         | 19         | 20        | 21         | 22         |                 |
|-------------------------------|------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|-----------|------------|------------|-----------------|
| <b>Initial Posting</b>        |      | <b>BCTC&gt;AESO</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>75</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>75</b> | <b>50</b>  | <b>50</b>  |                 |
| <b>CONFIRMED RESERVATIONS</b> |      |                     |           |           |           |           |           |           |           |           |           |           |            |            |            |           |            |            | <b>DURATION</b> |
|                               | 2000 | BPAT>AESO           |           |           |           |           | 25        | 25        | 25        | 25        | 25        | 25        | 25         | 25         | 25         | 25        | 25         | 25         | <b>12</b>       |
|                               | 3000 | BPAT>AESO           |           |           |           |           |           |           |           |           |           |           | 25         | 25         |            |           |            |            | <b>2</b>        |
|                               | 4000 | BPAT>AESO           |           |           |           |           |           |           |           |           |           | 25        | 25         | 25         | 25         | 25        | 25         |            | <b>6</b>        |
|                               | 5000 | BPAT>AESO           |           |           |           |           |           |           |           |           |           |           | 25         | 25         |            |           |            |            | <b>2</b>        |
| <b>REMAINING ATC</b>          |      |                     | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>25</b> | <b>25</b> | <b>25</b> | <b>25</b> | <b>25</b> | <b>25</b> | <b>0</b>   | <b>0</b>   | <b>50</b>  | <b>25</b> | <b>0</b>   | <b>0</b>   |                 |
| <b>COMPETING REQUEST</b>      |      |                     |           |           |           |           |           |           |           |           |           |           |            |            |            |           |            |            |                 |
|                               | 6000 | BPAT>AESO           |           |           |           |           | 25        | 25        | 25        | 25        | 25        | 25        | 25         | 25         | 25         | 25        | 25         | 25         | <b>12</b>       |
| <b>REMAINING ATC</b>          |      |                     | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>-25</b> | <b>-25</b> | <b>25</b>  | <b>0</b>  | <b>-25</b> | <b>-25</b> |                 |

- Confirmed reservation #5000 has a right to match on competing request #6000

## Duration - Scenario 5 cont'd

|                                           |                     | HE        | 7         | 8         | 9         | 10        | 11        | 12        | 13        | 14        | 15        | 16        | 17         | 18         | 19         | 20        | 21         | 22         | DURATION  |
|-------------------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|-----------|------------|------------|-----------|
| <b>Initial Posting</b>                    | <b>BCTC&gt;AESO</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>75</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>75</b> | <b>50</b>  | <b>50</b>  | <b>16</b> |
| <b>CONFIRMED RESERVATIONS</b>             |                     |           |           |           |           |           |           |           |           |           |           |           |            |            |            |           |            |            |           |
| 2000                                      | BPAT>AESO           |           |           |           |           |           | 25        | 25        | 25        | 25        | 25        | 25        | 25         | 25         | 25         | 25        | 25         | 25         | <b>12</b> |
| 3000                                      | BPAT>AESO           |           |           |           |           |           |           |           |           |           |           |           | 25         | 25         |            |           |            |            | <b>2</b>  |
| 4000                                      | BPAT>AESO           |           |           |           |           |           |           |           |           |           |           | 25        | 25         | 25         | 25         | 25        | 25         | 25         | <b>7</b>  |
| 5000                                      | BPAT>AESO           |           |           |           |           |           |           |           |           |           |           |           | 25         | 25         |            |           |            |            | <b>2</b>  |
| <b>Match timeline expired - Displaced</b> |                     |           |           |           |           |           |           |           |           |           |           |           | <b>-25</b> | <b>-25</b> |            |           |            |            | <b>-2</b> |
| <b>REMAINING ATC</b>                      |                     |           | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>25</b> | <b>25</b> | <b>25</b> | <b>25</b> | <b>25</b> | <b>25</b> | <b>25</b>  | <b>25</b>  | <b>50</b>  | <b>25</b> | <b>0</b>   | <b>0</b>   |           |
| <b>COMPETING REQUEST</b>                  |                     |           |           |           |           |           |           |           |           |           |           |           |            |            |            |           |            |            |           |
| 6000                                      | BPAT>AESO           |           |           |           |           |           | 25        | 25        | 25        | 25        | 25        | 25        | 25         | 25         | 25         | 25        | 25         | 25         | <b>12</b> |
| <b>REMAINING ATC</b>                      |                     |           | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>   | <b>0</b>   | <b>25</b>  | <b>0</b>  | <b>-25</b> | <b>-25</b> |           |

- Reservation #5000 DISPLACED - match timeline expired
- Confirmed reservation #4000 has a right to match on competing request #6000

## Duration - Scenario 5 cont'd

|                               |                                           | HE                  | 7         | 8         | 9         | 10        | 11        | 12        | 13        | 14        | 15        | 16        | 17         | 18         | 19         | 20        | 21        | 22        | DURATION  |
|-------------------------------|-------------------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|-----------|-----------|-----------|-----------|
|                               | <b>Initial Posting</b>                    | <b>BCTC&gt;AESO</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>75</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>75</b> | <b>50</b> | <b>50</b> | <b>16</b> |
| <b>CONFIRMED RESERVATIONS</b> |                                           |                     |           |           |           |           |           |           |           |           |           |           |            |            |            |           |           |           |           |
|                               | 2000                                      | BPAT>AESO           |           |           |           |           | 25        | 25        | 25        | 25        | 25        | 25        | 25         | 25         | 25         | 25        | 25        | 25        | <b>12</b> |
|                               | 3000                                      | BPAT>AESO           |           |           |           |           |           |           |           |           |           |           | 25         | 25         |            |           |           |           | <b>2</b>  |
|                               | 6000                                      | BPAT>AESO           |           |           |           |           | 25        | 25        | 25        | 25        | 25        | 25        | 25         | 25         | 25         | 25        | 25        | 25        | <b>12</b> |
|                               | 5000                                      | BPAT>AESO           |           |           |           |           |           |           |           |           |           |           | 25         | 25         |            |           |           |           | <b>2</b>  |
|                               | <b>Match timeline expired - Displaced</b> |                     |           |           |           |           |           |           |           |           |           |           |            |            |            |           |           |           |           |
|                               | <b>REMAINING ATC</b>                      |                     | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>25</b> | <b>25</b>  | <b>25</b>  | <b>50</b>  | <b>25</b> | <b>0</b>  | <b>0</b>  |           |
|                               | 4000                                      | BPAT>AESO           |           |           |           |           |           |           |           |           |           | 25        | 25         | 25         | 25         | 25        | 25        | 25        | <b>7</b>  |
|                               | <b>No to Match - Displaced</b>            |                     |           |           |           |           |           |           |           |           |           |           |            |            |            |           |           |           |           |
|                               | <b>REMAINING ATC</b>                      |                     | <b>50</b> | <b>50</b> | <b>50</b> | <b>50</b> | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>25</b> | <b>25</b>  | <b>25</b>  | <b>50</b>  | <b>25</b> | <b>0</b>  | <b>0</b>  |           |

- Reservation #4000 says No to Match and is displaced immediately
- Request #6000 is CONFIRMED and remaining ATC Varied



## Duration - Scenario 6

Scenario 6 will describe YES to MATCH and ATC not available for the match

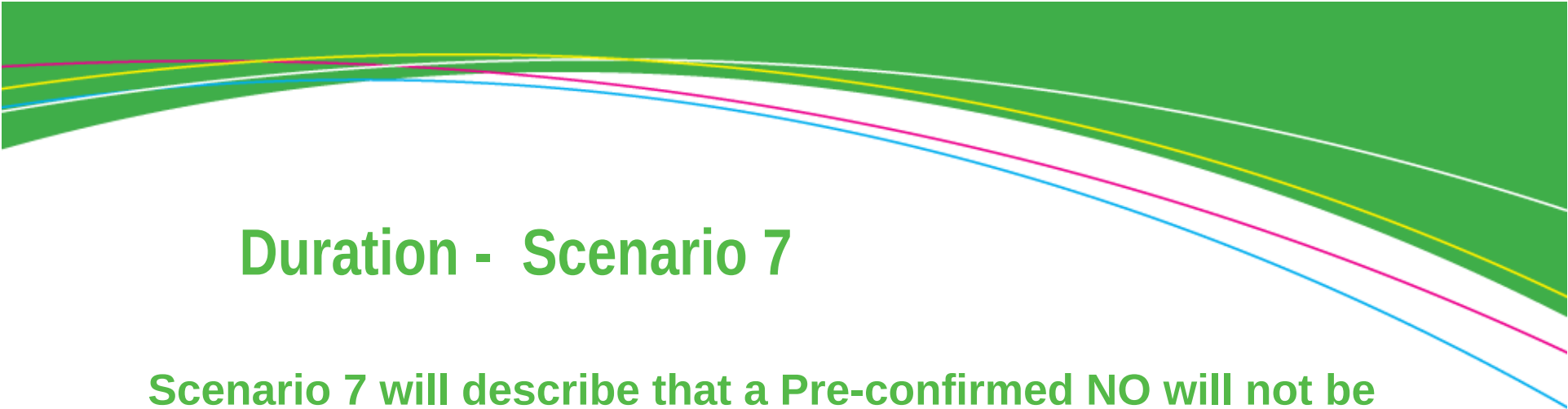
- The constrained path is BCTC > AESO
- Reservations #100, #200 and #300 on BPAT > AESO are CONFIRMED
- Competing Request #400 is RECEIVED

## Duration - Scenario 6 cont'd

|                               |                        | HE                  | 10 | 11 | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21 | 22 |   |
|-------------------------------|------------------------|---------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
|                               | <b>Initial Posting</b> | <b>BCTC&gt;AESO</b> |    |    | 50  | 50  | 50  | 50  | 50  | 50  | 50  | 50  | 50  |    |    |   |
| <b>CONFIRMED RESERVATIONS</b> |                        |                     |    |    |     |     |     |     |     |     |     |     |     |    |    |   |
|                               | 100                    | BPAT>AESO           |    |    |     |     |     |     |     | 50  | 50  | 50  | 50  |    |    | 4 |
|                               | 200                    | BPAT>AESO           |    |    | 50  | 50  | 50  |     |     |     |     |     |     |    |    | 3 |
|                               | 300                    | BPAT>AESO           |    |    |     |     |     | 50  | 50  |     |     |     |     |    |    | 2 |
|                               | <b>REMAINING ATC</b>   |                     |    |    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |    |   |
| <b>COMPETING REQUEST</b>      |                        |                     |    |    |     |     |     |     |     |     |     |     |     |    |    |   |
|                               | 400                    | BPAT>AESO           |    |    | 50  | 50  | 50  | 50  | 50  | 50  | 50  | 50  | 50  |    |    | 9 |
|                               | <b>REMAINING ATC</b>   |                     |    |    | -50 | -50 | -50 | -50 | -50 | -50 | -50 | -50 | -50 |    |    |   |

- Request #400 is a valid competing request.
- CONFIRMED reservation #300 and subsequently CONFIRMED reservation #200 says Yes to Match and cannot Match due to ATC limitations and are DISPLACED.
- Reservation #100 can match as all ATC has been freed up.

BCTC offers a MATCH as ATC may become available during the displacement process. (i.e.counterflow transmission)



## Duration - Scenario 7

Scenario 7 will describe that a Pre-confirmed NO will not be automatically displaced by a Pre-confirmed YES of equal duration.

- The constrained path is BCTC > AESO
- Request #500 is CONFIRMED
- Request #600 is ACCEPTED

## Duration - Scenario 7 cont'd

|  |                            | HE                  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14  | 15  | 16  | 17  | 18  | 19  | 20 | 21  | 22  |    |
|--|----------------------------|---------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|
|  | <b>Initial Posting</b>     | <b>BCTC&gt;AESO</b> | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 75 | 50  | 50  |    |
|  | <b>Request #</b>           |                     |    |    |    |    |    |    |    |     |     |     |     |     |     |    |     |     |    |
|  | CONFIRMED request #500     | BPAT>AESO           |    |    |    |    | 25 | 25 | 25 | 25  | 25  | 25  | 25  | 25  | 25  | 25 | 25  | 25  | 12 |
|  | ACCEPTED request #600      | BPAT>AESO           |    |    |    |    |    |    |    | 25  | 25  | 25  | 25  | 25  | 25  | 25 | 25  | 25  | 9  |
|  | <b>REMAINING ATC</b>       |                     | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 50  | 50  | 50  | 50  | 50  | 50  | 25 | 0   | 0   |    |
|  | Pre-confirmed Request #700 | BPAT>AESO           |    |    |    |    |    |    |    | 25  | 25  | 25  | 25  | 25  | 25  | 25 | 25  | 25  | 9  |
|  | <b>REMAINING ATC</b>       |                     | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 25  | 25  | 25  | 25  | 25  | 25  | 0  | -25 | -25 |    |

- Request #700 is REFUSED, ATC not available
- Request #600 will be CONFIRMED by customer or RETRACTED if confirmation not submitted on time



## Duration - Scenario 8

Scenario 8 will describe that a Pre-confirmed NO will be automatically displaced by a Pre-confirmed YES with a longer duration.

- The constrained path is BCTC > AESO
- Request #101 is CONFIRMED
- Request #201 is ACCEPTED
- Request #301 is competing

## Duration - Scenario 8 cont'd

|                            |                     | HE | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14  | 15  | 16  | 17  | 18  | 19  | 20 | 21  | 22  |    |
|----------------------------|---------------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|
| <b>Initial Posting</b>     | <b>BCTC&gt;AESO</b> | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 75 | 50  | 50  |    |
| <b>Request #</b>           |                     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |    |     |     |    |
| CONFIRMED request #101     | BPAT>AESO           |    |    |    |    |    | 25 | 25 | 25 | 25  | 25  | 25  | 25  | 25  | 25  | 25 | 25  | 25  | 12 |
| ACCEPTED request #201      | BPAT>AESO           |    |    |    |    |    |    |    |    | 25  | 25  | 25  | 25  | 25  | 25  | 25 | 25  | 25  | 9  |
| <b>REMAINING ATC</b>       |                     | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 50 | 50  | 50  | 50  | 50  | 50  | 50  | 25 | 0   | 0   |    |
| Pre-confirmed Request #301 | BPAT>AESO           |    |    |    |    |    | 25 | 25 | 25 | 25  | 25  | 25  | 25  | 25  | 25  | 25 | 25  | 25  | 12 |
| <b>REMAINING ATC</b>       |                     | 50 | 50 | 50 | 50 | 0  | 0  | 0  | 25 | 25  | 25  | 25  | 25  | 25  | 25  | 0  | -25 | -25 |    |

- Reservation #101 is CONFIRMED
- Request #201 is in the 5 minute timeline period to Confirm for NF hourly transmission
- Request #301 is next in the queue with a longer duration, same price and Pre-confirmed YES

## Duration - Scenario 8 cont'd

|                                 |           | HE        | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | DURATION |
|---------------------------------|-----------|-----------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| Initial Posting                 |           | BCTC>AESO | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 75  | 50  | 50  |          |
| Request #                       |           |           |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |          |
| CONFIRMED request #101          | BPAT>AESO |           |    |    |    |    | 25 | 25 | 25 | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 12       |
| CONFIRMED request #301          | BPAT>AESO |           |    |    |    |    | 25 | 25 | 25 | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 12       |
| REMAINING ATC                   |           |           | 50 | 50 | 50 | 50 | 0  | 0  | 0  | 50  | 50  | 50  | 50  | 50  | 50  | 25  | 0   | 0   |          |
| Request #201                    |           | BPAT>AESO |    |    |    |    |    |    |    |     | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 8        |
| SUPERSEDED and replaced by #301 |           |           |    |    |    |    |    |    |    |     | -25 | -25 | -25 | -25 | -25 | -25 | -25 | -25 | -8       |
| REMAINING ATC                   |           |           | 50 | 50 | 50 | 50 | 0  | 0  | 0  | 50  | 50  | 50  | 50  | 50  | 50  | 25  | 0   | 0   |          |

- Request #201 is SUPERSEDED, replaced by Pre-confirmed YES request #301 with a longer duration. Request #201 has no right to match.



# Counteroffer

## Grant Remaining Capacity (GRC)

Grant Remaining Capacity is only offered to a competing transmission request after the original Customer has correctly matched duration

GRC only offers a flat profile

BCTC communicates this offer through OASIS and changes the OASIS status to COUNTEROFFER

BCTC does not telephone the customer when the OASIS status is changed to COUNTEROFFER

The onus is on the customer to confirm the COUNTEROFFER within the appropriate timelines

# Grant Remaining Capacity

## COUNTEROFFER Timelines

Counteroffer Timeline Table

| Class    | Service Increment | Time QUEUED Prior to start | Customer Confirmation Limit after Counteroffer |
|----------|-------------------|----------------------------|------------------------------------------------|
| Non-Firm | Hourly            | <> 1 Hour                  | 5 minutes                                      |
| Non-Firm | Hourly            | Day ahead                  | 10 minutes                                     |
| Non-Firm | Daily             | N/A                        | 10 minutes                                     |
| Non-Firm | Weekly            | N/A                        | 30 minutes                                     |
| Non-Firm | Monthly           | N/A                        | 2 hours                                        |
| Firm     | Hourly            | <> 1 Hour                  | 5 minutes                                      |
| Firm     | Hourly            | Day ahead                  | 10 minutes                                     |
| Firm     | Daily             | N/A                        | 10 minutes                                     |
| Firm     | Weekly            | N/A                        | 30 minutes                                     |
| Firm     | Monthly           | N/A                        | 2 hours                                        |



## Grant Remaining Capacity

### COUNTEROFFER

- ATC is decremented at the time BCTC counteroffers
- If customer confirms the COUNTEROFFER, then the OASIS status changes to CONFIRMED
- If customer does not respond within the COUNTEROFFER Timelines, then the transmission reservation will be RETRACTED and ATC increased
- Subsequent transmission requests may be REFUSED due to insufficient ATC during the time to confirm the COUNTEROFFER



## Grant Remaining Capacity

### How to COUNTEROFFER on OASIS?

- Customer A has just MATCHED with a request for HE12 - HE18, Hourly Non-Firm, BCTC > AESO
- BCTC has sent a COUNTEROFFER of 50MW for Hourly Non-firm transmission, HE12 - HE18 to customer B

# Grant Remaining Capacity

Use confirm button at bottom of counteroffer request

|                         |        |                  |                |                |       |
|-------------------------|--------|------------------|----------------|----------------|-------|
| HRLY_NON-FIRM_PTP_FIXED | HOURLY | NON-FIRM         | POINT_TO_POINT | FULL_PERIOD    | FIXED |
| Preconfirmed: Yes       |        | Competing: No    |                | Negotiated: No |       |
|                         |        | Nerc Priority: 1 |                | Affiliate: No  |       |

| Reservation Profile |                     |        |          |        |           |             |
|---------------------|---------------------|--------|----------|--------|-----------|-------------|
| Start Date          | Stop Date           | MW Req | MW Grant | MWH    | Bid Price | Offer Price |
| 2006-01-21 12:00 PS | 2006-01-21 18:00 PS | 75     | 25       | 150.00 | 6.40      | 6.40        |
| Profile Total:      |                     |        |          | 150.00 |           |             |

1/21/2006

| Comments |         | Times    |                        | References |  |
|----------|---------|----------|------------------------|------------|--|
| Status   |         | Queued   | 2006-01-19 16:53:48 PS | Deal       |  |
| Seller   |         | Updated  | 2006-01-19 16:56:38 PS | Sale       |  |
| Provider |         | Response |                        | Posting    |  |
| Customer | TSSUAT1 |          |                        | Request    |  |
| Impacted | 0       |          |                        | Reassigned |  |
|          |         |          |                        | Seller     |  |
|          |         |          |                        | Related    |  |

**Status Notification**

**Customer: TEMC**

Name: TEMC\_Test1

Phone:

Fax:

E-mail:

**Seller: BCTC**

Name: BCTC\_TSS

Phone:

Fax:

E-mail:

UPDATE COMMENT

CONFIRMED

WITHDRAWN

# Grant Remaining Capacity

## Transmission Reservation Detail 69761621 COUNTEROFFER

| Seller | Source Sink | POR POD               | Request Type | Start                  | Stop                   | MW Req | MW Grant | Bid Price | Offer Price | Ceiling Price | Price Unit |
|--------|-------------|-----------------------|--------------|------------------------|------------------------|--------|----------|-----------|-------------|---------------|------------|
| CTC    |             | BCTC.NETWORK<br>AB.BC | ORIGINAL     | 2006-01-21<br>12:00 PS | 2006-01-21<br>18:00 PS | 75     | 25       | 6.40      | 6.40        | 6.40          | \$CDN/MWh  |

Path: W/BCTC/BCTC - AESO//

| Service Code           | Increment | Class    | Type           | Period      | Window | Subclass |
|------------------------|-----------|----------|----------------|-------------|--------|----------|
| RLY_NON-FIRM_PTP_FIXED | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD | FIXED  |          |

Reconfirmed: Yes    Competing: No    Negotiated: No    Nerc Priority: 1    Affiliate: No

### Reservation Profile

| Start Date             | Stop Date              | MW Req | MW Grant | MWh    | Bid Price | Offer Price |
|------------------------|------------------------|--------|----------|--------|-----------|-------------|
| 2006-01-21<br>12:00 PS | 2006-01-21<br>18:00 PS | 75     | 25       | 150.00 | 6.40      | 6.40        |
| <b>Profile Total:</b>  |                        |        |          |        | 150.00    |             |

**1/21/2006**

| Comments |         | Times    |                        | References |  |
|----------|---------|----------|------------------------|------------|--|
| Status   |         | Queued   | 2006-01-19 16:53:48 PS | Deal       |  |
| Seller   |         | Updated  | 2006-01-19 16:56:38 PS | Sale       |  |
| Provider |         | Response |                        | Posting    |  |
| Customer | TSSUAT1 |          |                        | Request    |  |



# Grant Remaining Capacity Scenarios

**This section will describe the following scenarios:**

- Counteroffer is offered
- Counteroffer is not offered

# Grant Remaining Capacity

Scenario 1 will describe when COUNTEROFFER is offered

- The constrained path is BCTC > AESO

|                              |     | HE                | 1          | 2          | 3          | 4          |                 |
|------------------------------|-----|-------------------|------------|------------|------------|------------|-----------------|
| <b>Initial Posting</b>       |     | <b>BC&gt;AESO</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> |                 |
| <b>CONFIRMED RESERVATION</b> |     |                   |            |            |            |            | <b>DURATION</b> |
|                              | 100 | BPAT>AESO         | 75         | 75         | 75         |            | <b>3</b>        |
| <b>REMAINING ATC</b>         |     |                   | <b>25</b>  | <b>25</b>  | <b>25</b>  | <b>100</b> |                 |
| <b>COMPETING REQUEST</b>     |     |                   |            |            |            |            |                 |
|                              | 200 | BPAT>AESO         | 50         | 50         | 50         | 50         | <b>4</b>        |
| <b>REMAINING ATC</b>         |     |                   | <b>-25</b> | <b>-25</b> | <b>-25</b> | <b>50</b>  |                 |

## Grant Remaining Capacity

|                                      |                            | HE                | 1          | 2          | 3          | 4          |                 |
|--------------------------------------|----------------------------|-------------------|------------|------------|------------|------------|-----------------|
| <b>Initial Posting</b>               |                            | <b>BC&gt;AESO</b> | <b>100</b> | <b>100</b> | <b>100</b> | <b>100</b> |                 |
| <b>CONFIRMED RESERVATION</b>         |                            |                   |            |            |            |            | <b>DURATION</b> |
|                                      | 300                        | BPAT>AESO         | 75         | 75         | 75         | 75         | <b>4</b>        |
|                                      | Confirmed Counteroffer 200 |                   | 25         | 25         | 25         | 25         | <b>4</b>        |
|                                      | <b>REMAINING ATC</b>       |                   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |                 |
|                                      | 100                        | BPAT>AESO         | 75         | 75         | 75         |            | <b>3</b>        |
| <b>DISPLACED and replaced by 300</b> |                            |                   | <b>-75</b> | <b>-75</b> | <b>-75</b> |            | <b>-3</b>       |
| <b>COMPETING REQUEST</b>             |                            |                   |            |            |            |            |                 |
|                                      | 200                        | BPAT>AESO         | 50         | 50         | 50         | 50         | <b>4</b>        |
|                                      |                            |                   | <b>-50</b> | <b>-50</b> | <b>-50</b> | <b>-50</b> | <b>-4</b>       |
|                                      | <b>REMAINING ATC</b>       |                   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |                 |

- Request #100 is Matched with #300
- Request #200 is COUNTEROFFERED with the same duration, lower MW value and is CONFIRMED by customer

# Grant Remaining Capacity

Scenario 2 will describe when COUNTEROFFER is not offered

- The constrained path is BCTC > AESO

| Initial Posting       |     | HE          | 1   | 2   | 3   | 4   |          |
|-----------------------|-----|-------------|-----|-----|-----|-----|----------|
| BCTC > AESO           |     |             | 75  | 75  | 75  | 100 |          |
| CONFIRMED RESERVATION |     |             |     |     |     |     | DURATION |
|                       | 100 | BPAT > AESO | 75  | 75  | 75  |     | 3        |
| REMAINING ATC         |     |             | 0   | 0   | 0   | 100 |          |
| COMPETING REQUEST     |     |             |     |     |     |     |          |
|                       | 200 | BPAT > AESO | 50  | 50  | 50  | 50  | 4        |
| REMAINING ATC         |     |             | -50 | -50 | -50 | 50  |          |

## Grant Remaining Capacity

|                               |     | HE        | 1   | 2   | 3   | 4   |          |
|-------------------------------|-----|-----------|-----|-----|-----|-----|----------|
| Initial Posting               |     | BCTC>AESO | 75  | 75  | 75  | 100 |          |
| CONFIRMED RESERVATION         |     |           |     |     |     |     | DURATION |
|                               | 300 | BPAT>AESO | 75  | 75  | 75  | 75  | 4        |
| REMAINING ATC                 |     |           | 0   | 0   | 0   | 25  |          |
|                               | 100 | BPAT>AESO | 75  | 75  | 75  |     | 3        |
| DISPLACED and replaced by 300 |     |           | -75 | -75 | -75 |     | -3       |
| COMPETING REQUEST             |     |           |     |     |     |     |          |
|                               | 200 | BPAT>AESO | 50  | 50  | 50  | 50  | 4        |
| REFUSED, ATC not available    |     |           | -50 | -50 | -50 | -50 | -4       |
| REMAINING ATC                 |     |           | 0   | 0   | 0   | 25  |          |

- Request #100 is replaced by #300. There is not enough ATC to fulfill the duration of Request #200 and is subsequently REFUSED.
- Grant Remaining Capacity ONLY offers a flat profile



## Price ROFR

Price ROFR is only offered to an ACCEPTED Non-Firm request (Pre-confirmed NO) when a competing Pre-confirmed YES request has the same duration with a higher price. In other words, the following must be true:

- First Request = Pre-confirmed NO
- Competing Request = Pre-confirmed YES
- Duration = same for both requests
- Price = competing price is higher



# Price ROFR

## Price ROFR - how will the customer know?

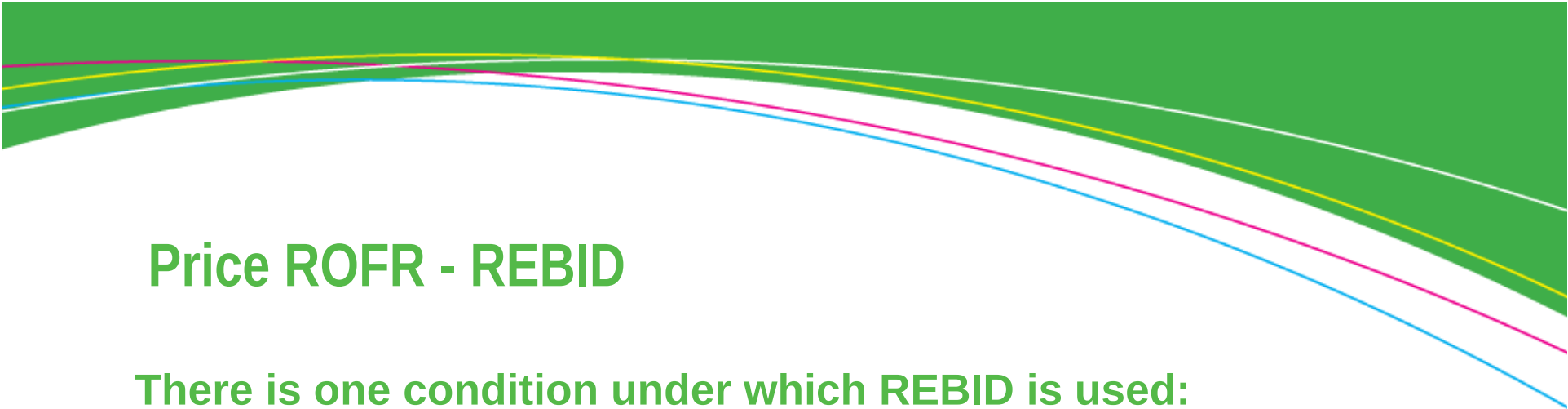
BCTC will make one attempt to notify the ACCEPTED (Pre-confirmed NO) customer to inform them they have the opportunity to exercise a Price ROFR (REBID) to avoid being displaced

If the customer is reached the customer must state their willingness to exercise the Price ROFR

If the customer is not reached then a detailed message will be left giving specifics such as the OASIS number needed for the required **REBID** (original request), the time the message was left and when the OASIS Expiry Timer was started

A timer is started by the Pre-scheduler at the time contact is made or when the message is left

**NOTE:** It is the responsibility of the customer to ensure that we have the correct contact information for their company and to be available during the displacement process



## Price ROFR - REBID

There is one condition under which REBID is used:

- Customer exercising Price ROFR (Pre-confirmed NO)

REBID price can be equal to or greater than the competing price up to the maximum Tariff price. If not, the REBID will be INVALID and negotiations are terminated

If the REBID is submitted with an error, the REBID will be INVALID and negotiations are terminated

## Price ROFR - REBID

Counteroffer Timeline Table

| Class    | Service Increment | Time QUEUED Prior to start | Customer Confirmation Limit after Counteroffer |
|----------|-------------------|----------------------------|------------------------------------------------|
| Non-Firm | Hourly            | <> 1 Hour                  | 5 minutes                                      |
| Non-Firm | Hourly            | Day ahead                  | 10 minutes                                     |
| Non-Firm | Daily             | N/A                        | 10 minutes                                     |
| Non-Firm | Weekly            | N/A                        | 30 minutes                                     |
| Non-Firm | Monthly           | N/A                        | 2 hours                                        |
| Firm     | Hourly            | <> 1 Hour                  | 5 minutes                                      |
| Firm     | Hourly            | Day ahead                  | 10 minutes                                     |
| Firm     | Daily             | N/A                        | 10 minutes                                     |
| Firm     | Weekly            | N/A                        | 30 minutes                                     |
| Firm     | Monthly           | N/A                        | 2 hours                                        |

REBID for day plus 1 must be completed within the confirmation limit or processed by 09:59:59 NPD whichever comes first



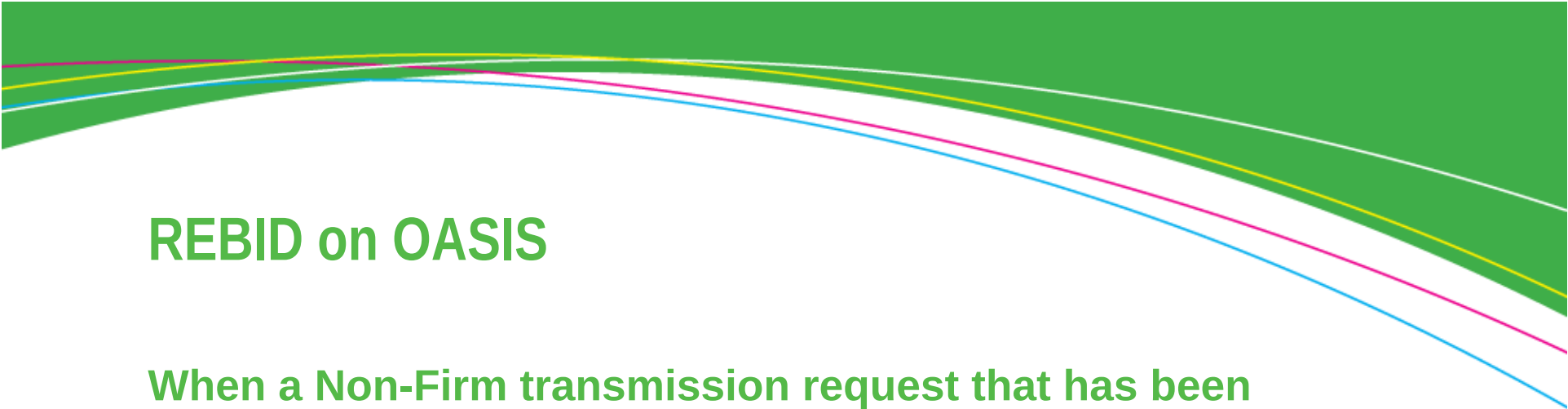
## REBID cont'd

**Customer** has **one** opportunity to submit a valid REBID within the REBID timelines

**Customer** can only REBID during the ACCEPTED timelines otherwise the request will be SUPERCEDED

### Rebid is Invalid when...

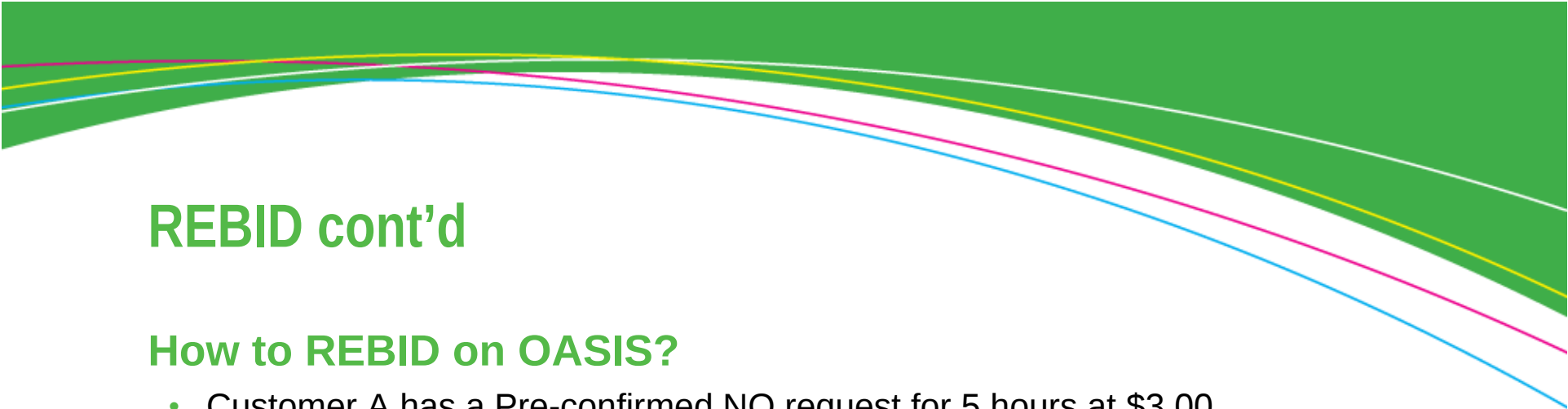
- not preconfirmed “YES”
- it is not for same period
- the price is not greater or equal to the counteroffer price



## REBID on OASIS

When a Non-Firm transmission request that has been **ACCEPTED** is followed by a valid competing Pre-confirmed request with the same duration and higher price, the **ACCEPTED** request will receive a Price ROFR and can match or exceed the price of the competing request.

The Customer with Price ROFR can then opt to REBID



## REBID cont'd

### How to REBID on OASIS?

- Customer A has a Pre-confirmed NO request for 5 hours at \$3.00
- Customer B is a competing request with same duration at a price of \$5.30
- BCTC has sent a REBID for Customer A's attention through OASIS
- Customer says YES to match
- Customer goes into original request clicks on Customer update button
- A Rebid window opens up, New status must be changed to CONFIRMED and Bid Price must be equal to or greater than the competing request
- Click on the Submit Changes button to submit request

# REBID on OASIS

## Transmission Reservation Detail 69781453 REFUSED

Customer Update

Create New TSR

Print View

| Seller | Source Sink | POR POD              | Request Type | Start                  | Stop                   | MW Req | MW Grant | Bid Price | Offer Price |
|--------|-------------|----------------------|--------------|------------------------|------------------------|--------|----------|-----------|-------------|
| CTC    |             | GMS.MCA.REV<br>AB.BC | ORIGINAL     | 2006-11-25<br>06:00 PS | 2006-11-25<br>22:00 PS | 100    |          | 5.30      |             |

Path: W/BCTC/BCTC - AESO//

| Service Code           | Increment | Class    | Type           | Period      |
|------------------------|-----------|----------|----------------|-------------|
| RLY_NON-FIRM_PTP_FIXED | HOURLY    | NON-FIRM | POINT_TO_POINT | FULL_PERIOD |

Reconfirmed: Yes Competing: No Negotiated: No Nerc Priority: 1

### Reservation Profile

| Start Date             | Stop Date              | MW Req | MW Grant | MWH     | Bid Price | Offer Price |
|------------------------|------------------------|--------|----------|---------|-----------|-------------|
| 2006-11-25<br>06:00 PS | 2006-11-25<br>22:00 PS | 100    |          | 1600.00 | 5.30      |             |
| Profile Total:         |                        |        |          | 1600.00 |           |             |

### Comments

| Status | Comments         | Times                       |
|--------|------------------|-----------------------------|
|        |                  | Queued 2006-11-23 13:09:50  |
| Seller | No available ATC | Updated 2006-11-23 13:15:07 |



BC Transmission  
CORPORATION

Building Connections

## REBID on OASIS

### Customer TSR Update 69781456 COUNTEROFFER

Submit Changes

Close

Status Comments

Customer Comments

TSSUAT1

Anc-Link

Status Notification

Preconfirmed



New Status

CONFIRMED

#### Reservation Profile

| Start               | Stop                | MW Req | MW Grant | MWH | Bid Price |
|---------------------|---------------------|--------|----------|-----|-----------|
| 11-25-2006 00:00 PS | 11-25-2006 05:00 PS | 100.0  | 100.0    | 500 | 5.3       |
| Profile Total:      |                     |        |          | 500 |           |



## REBID Scenario

### This section will describe YES to Price ROFR - REBID

- The constrained path is BCTC > AESO
- Reservation #2001 is CONFIRMED
- ACCEPTED Request #3001, 25MW, HE01-HE06 using non-firm discounted price of \$3.00
- Competing Request #4001, 25MW, HE01-HE06 with a higher price of \$3.10 has been RECEIVED

## REBID - Scenario 1

|  |                         | HE        | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16  | 17  | 18  | 19  | 20 | 21 | 22 |    | Price  |
|--|-------------------------|-----------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|----|----|----|----|--------|
|  | Initial Posting         | BCTC>AESO | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50  | 50  | 50  | 100 | 75 | 50 | 50 |    |        |
|  |                         |           |    |    |    |    |    |    |    |    |    |     |     |     |     |    |    |    |    |        |
|  | Request #               |           |    |    |    |    |    |    |    |    |    |     |     |     |     |    |    |    |    |        |
|  | 2001                    | BPAT>AESO |    |    |    |    | 25 | 25 | 25 | 25 | 25 | 25  | 25  | 25  | 25  | 25 | 25 | 25 | 12 | \$3.00 |
|  | Preconfirmed NO - 3001  | BPAT>AESO |    |    |    |    |    |    |    |    |    | 25  | 25  | 25  |     |    |    |    | 3  | \$3.00 |
|  | Preconfirmed YES - 4001 | BPAT>AESO |    |    |    |    |    |    |    |    |    | 25  | 25  | 25  |     |    |    |    | 3  | \$3.10 |
|  | REMAINING ATC           |           | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 25 | 25 | -25 | -25 | -25 | 75  | 50 | 25 | 25 |    |        |
|  |                         |           |    |    |    |    |    |    |    |    |    |     |     |     |     |    |    |    |    |        |

- Duration for 3001 and 4001 is equal, therefore 3001 has the right to REBID on their original request to exceed \$3.10 and/or up to the maximum Tariff price.

## REBID - Scenario 1

|                             |                     | HE | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16  | 17  | 18  | 19  | 20 | 21 | 22 | Duration | Price  |
|-----------------------------|---------------------|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|----|----|----|----------|--------|
| <b>Initial Posting</b>      | <b>BCTC&gt;AESO</b> | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50  | 50  | 50  | 100 | 75 | 50 | 50 | 16       |        |
| <b>Request #</b>            |                     |    |    |    |    |    |    |    |    |    |    |     |     |     |     |    |    |    |          |        |
| 2001                        | BPAT>AESO           |    |    |    |    |    | 25 | 25 | 25 | 25 | 25 | 25  | 25  | 25  | 25  | 25 | 25 | 25 | 12       | \$3.00 |
| Preconfirmed YES - 3001     | BPAT>AESO           |    |    |    |    |    |    |    |    |    |    | 25  | 25  | 25  |     |    |    |    | 3        | \$5.00 |
| <b>REMAINING ATC</b>        |                     | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 25 | 25 | 25 | 0   | 0   | 0   | 75  | 50 | 25 | 25 |          |        |
| 4001                        | BPAT>AESO           |    |    |    |    |    |    |    |    |    |    | 25  | 25  | 25  |     |    |    |    | 3        | \$3.10 |
| Remaining ATC not available |                     |    |    |    |    |    |    |    |    |    |    | -25 | -25 | -25 |     |    |    |    | -3       |        |
| <b>REMAINING ATC</b>        |                     | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 25 | 25 | 25 | 0   | 0   | 0   | 75  | 50 | 25 | 25 |          |        |

- Request 3001 increased price to \$5.00 and confirmed the original request.



## e-Tags and Displacements

Functionality allows customers with transmission requests who submit a valid MATCH during the displacement process to retain their energy schedules

TSS automatically transfers the customer's existing energy schedule(s) to the new matching OASIS reference number

Therefore, Customers do not have to re-submit an new E-tag with the new matching OASIS reservation number



## e-Tags and Displacements

The affected e-Tags will not be modified to reference the new matching OASIS numbers. However, TSS will reference the new matching OASIS number automatically and track the energy schedule accordingly

New e-Tags after the match is **CONFIRMED** must reference that new matched OASIS reference number, **NOT** the displaced reservation number

# Network Economy





## BCTC Internet

BCTC posts information to its internet site, as required, based upon the Negotiated Settlement

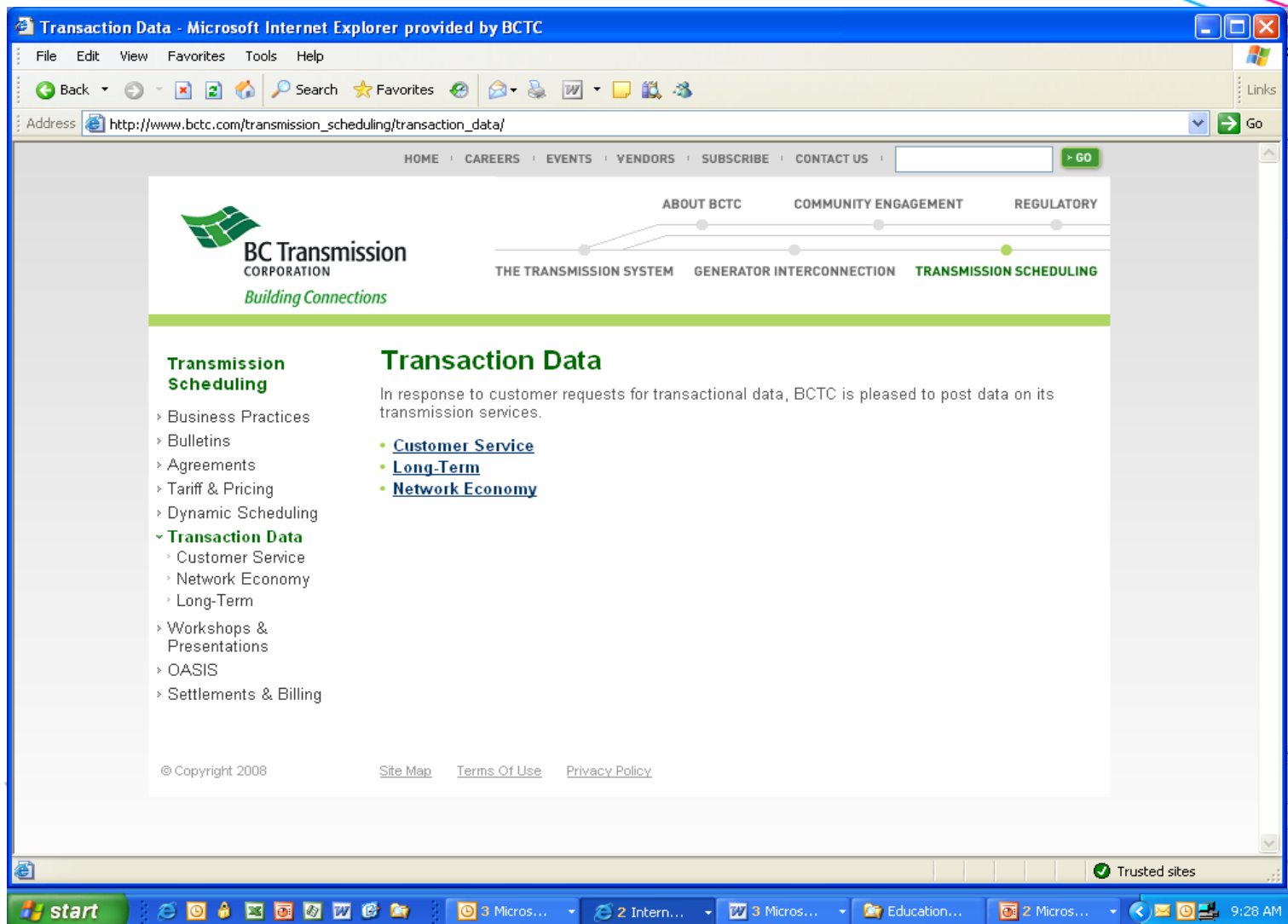
The NE information is available at

[http://www.bctc.com/transmission\\_scheduling/transaction\\_data/Transaction\\_Data-Network\\_Economy/](http://www.bctc.com/transmission_scheduling/transaction_data/Transaction_Data-Network_Economy/)

The transaction data has the following subfolders that stores the relevant information

- Transaction Data
  - Customer Service
  - Long-Term
  - Network Economy
    - Economic Test Results
    - Network Economy Utilization
    - Non-Firm Utilization
    - Threshold Price and Heat Rate

# View of BCTC Internet



# Posting of Economic Test Results

| Settlement Agreement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Business Practice – Economic Test Results                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Economic Test</b></p> <ul style="list-style-type: none"><li>• <b>Attachment Q, Section 2</b></li></ul> <p>2. Notwithstanding section 14.7 of the Open Access Transmission Tariff, for each hour in the delivery day:</p> <p>(a) Network Economy reservations will have the priority and rights provided in section 14.7 of the Open Access Transmission Tariff only if the Market Price is less than or equal to the Trigger Price for the delivery hour; and</p> <p>(b) If the Market Price is greater than the Trigger Price for the delivery hour, Network Economy reservations will have the same priority as Non-Firm Point- To-Point service, with the exception that the provisions of section 14.2 of the Open Access Transmission Tariff providing for reservation priority based on price shall not apply.</p> | <ul style="list-style-type: none"><li>• BCTC performs the Economic Test for each hour of the delivery day and for each intertie.</li><li>• Based on the results of the Economic Test, BCTC will declare NE reservations:<ul style="list-style-type: none"><li>- Type 1 - normal priority, or</li><li>- Type 2 - non-firm priority.</li></ul></li></ul> |

## Business Practice: Posting Results

| Settlement Agreement                                                                                                                                                                                                                             | Business Practice – Posting Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Attachment Q, Section 2</b></p> <p>2. ... the Transmission Provider will post each day on its website or OASIS by 23:59:00, whether Network Economy for each hour in the delivery day will have the priority as set out in (a) or (b).</p> | <ul style="list-style-type: none"> <li>• BCTC publishes the type of NE service (Economic Test result) declared by date and hour for the US-BC and AB-BC Import Interties.</li> <li>• These results are posted at <a href="http://www.bctc.com/transmission_scheduling/transaction_data/Transaction_Data-Network_Economy/economic_test_results/">http://www.bctc.com/transmission_scheduling/transaction_data/Transaction_Data-Network_Economy/economic_test_results/</a> by 23:59:00, two business days before the delivery date.</li> <li>• If the delivery day is part of an Extended Delivery window, then BCTC will post Economic Test results for the appropriate days.</li> <li>• BCTC posts archived Economic Test results for up to the previous 90 days on a Historical Results webpage at <a href="http://www.bctc.com/transmission_scheduling/transaction_data/Transaction_Data-Network_Economy/economic_test_results/historical_results.htm">http://www.bctc.com/transmission_scheduling/transaction_data/Transaction_Data-Network_Economy/economic_test_results/historical_results.htm</a></li> <li>• BCTC will store archived Economic Test results for up to 3 years.</li> </ul> |

# Posting of Economic Test Results

Economic Test Results - Microsoft Internet Explorer provided by BCTC

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites

Address [http://www.bctc.com/transmission\\_scheduling/transaction\\_data/Transaction\\_Data-Network\\_Economy/economic\\_test\\_results/economic\\_test\\_results.htm](http://www.bctc.com/transmission_scheduling/transaction_data/Transaction_Data-Network_Economy/economic_test_results/economic_test_results.htm) Go

HOME CAREERS EVENTS VENDORS SUBSCRIBE CONTACT US

GO

 **BC Transmission CORPORATION**  
Building Connections

ABOUT BCTC COMMUNITY ENGAGEMENT REGULATORY

THE TRANSMISSION SYSTEM GENERATOR INTERCONNECTION **TRANSMISSION SCHEDULING**

## Transmission Scheduling

- Business Practices
- Bulletins
- Agreements
- Tariff & Pricing
- Dynamic Scheduling
- Transaction Data**
  - Customer Service
  - Network Economy
    - Economic Test Results**
    - Historical Results
    - Network Economy Utilization
    - Non-Firm Utilization
    - Threshold Price and Heat Rate
  - Long-Term
- Workshops & Presentations
- OASIS
- Settlements & Billing

## Economic Test Results

In compliance with the [Network Economy Settlement Order No. G-127-06](#) (PDF 970KB), the Network Economy Test Results page displays the results of the Economic Comparison Test between Market and Trigger prices for a given day. These test results are applicable to Network Economy reservations only. Previous Economic Test results can be viewed via the Historical Results link.

### Latest Results

*\*All results are posted as of 23:59 Pacific Prevailing Time (PPT)*

| Results Applicable for | Posted on                   |
|------------------------|-----------------------------|
| Jan-29-2008            | <a href="#">Jan-27-2008</a> |

- [Historical Results](#)

Done Trusted sites

start 3 Microso... 2 Interne... 2 Microso... Educational... 2 Microso... 9:13 AM

# Posting of Historical Economic Test Results

Historical Results - Microsoft Internet Explorer provided by BCTC

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites

Address [http://www.bctc.com/transmission\\_scheduling/transaction\\_data/Transaction\\_Data-Network\\_Economy/economic\\_test\\_results/historical\\_results.htm](http://www.bctc.com/transmission_scheduling/transaction_data/Transaction_Data-Network_Economy/economic_test_results/historical_results.htm) Go

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BC Transmission CORPORATION  
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ABOUT BCTC COMMUNITY ENGAGEMENT REGULATORY

THE TRANSMISSION SYSTEM GENERATOR INTERCONNECTION TRANSMISSION SCHEDULING

## Transmission Scheduling

- Business Practices
- Bulletins
- Agreements
- Tariff & Pricing
- Dynamic Scheduling
- Transaction Data**
  - Customer Service
  - Network Economy
    - Economic Test Results
      - Historical Results**
    - Network Economy Utilization
    - Non-Firm Utilization
    - Threshold Price and Heat Rate
  - Long-Term
- Workshops & Presentations
- OASIS
- Settlements & Billing

## Historical Results

Economic Test Results for up to the past 90 days can be viewed here.

### Historical Results

*\*All results are posted as of 23:59 Pacific Prevailing Time (PPT)*

| Results Applicable for | Posted on                   |
|------------------------|-----------------------------|
| Jan-28-2008            | <a href="#">Jan-26-2008</a> |
| Jan-28-2008            | <a href="#">Jan-25-2008</a> |
| Jan-28-2008            | <a href="#">Jan-24-2008</a> |
| Jan-27-2008            | <a href="#">Jan-25-2008</a> |
| Jan-27-2008            | <a href="#">Jan-24-2008</a> |
| Jan-26-2008            | <a href="#">Jan-24-2008</a> |
| Jan-26-2008            | <a href="#">Jan-23-2008</a> |
| Jan-25-2008            | <a href="#">Jan-23-2008</a> |
| Jan-24-2008            | <a href="#">Jan-22-2008</a> |
| Jan-23-2008            | <a href="#">Jan-21-2008</a> |
| Jan-22-2008            | <a href="#">Jan-20-2008</a> |
| Jan-22-2008            | <a href="#">Jan-19-2008</a> |
| Jan-22-2008            | <a href="#">Jan-18-2008</a> |
| Jan-22-2008            | <a href="#">Jan-17-2008</a> |

Done Trusted sites

start 3 Micros... 2 Intern... 3 Micros... Education... 2 Micros... 9:30 AM

# Extended Windows

**Hourly** Firm and Non-Firm  
**Regular Weekend**

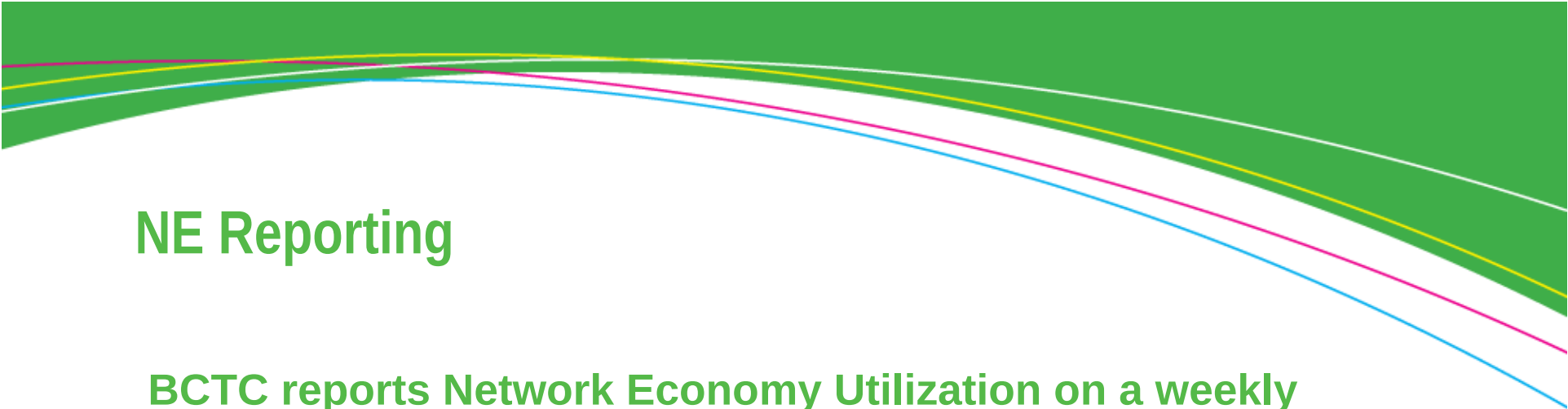
Transmission Date

| Time     | Earliest Day to Buy |              | May 04<br>Tuesday | May 05<br>Wednesday | May 06<br>Thursday | May 07<br>Friday | May 08<br>Saturday | May 09<br>Sunday | May 10<br>Monday |
|----------|---------------------|--------------|-------------------|---------------------|--------------------|------------------|--------------------|------------------|------------------|
| 00:00:00 | Monday              | May 03, 2004 | X                 |                     |                    |                  |                    |                  |                  |
| 00:00:00 | Tuesday             | May 04, 2004 |                   | X                   |                    |                  |                    |                  |                  |
| 00:00:00 | Wednesday           | May 05, 2004 |                   |                     | X                  |                  |                    |                  |                  |
| 00:00:00 | Thursday            | May 06, 2004 |                   |                     |                    | X                | X                  |                  |                  |
| 00:00:00 | Friday              | May 07, 2004 |                   |                     |                    |                  | X                  | X                | X                |
| 00:00:00 | Saturday            | May 08, 2004 |                   |                     |                    |                  |                    | X                | X                |
| 00:00:00 | Sunday              | May 09, 2004 |                   |                     |                    |                  |                    |                  | X                |

Saturday's transmission can be purchased as early as 00:00:00 Thursday

## Business Practice: NE Reporting

| Settlement Agreement | Business Practice – NE Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agreement, Section 7 | <p>On a weekly basis, BCTC posts the following data with respect to NE service at <a href="http://www.bctc.com/transmission_scheduling/transaction_data/">http://www.bctc.com/transmission_scheduling/transaction_data/</a> :</p> <ul style="list-style-type: none"><li>• MWh Volume of NE reservations – Amount of NE transmission reservations;</li><li>• MWh Volume of NE Scheduled Energy – Energy scheduled on NE transmission reservations;</li><li>• Number of NE transactions – Number of transactions for NE transmission reservations. Number of transactions for NE with scheduled energy. Number of NE Schedules.</li><li>• Unused NE – MWh volume of NE transmission reservations minus MWh volume of NE energy scheduled (both adjusted for curtailments and interruptions), and the utilization percentage for each hour;</li><li>• NE Economic Interruptions – NE interruptions of Non-Firm Point-To-Point transmission service at XX:40, reflecting the last action that resulted in the interruption;</li><li>• The date and time of any change to the Threshold Purchase Price, as defined in section 1 of Tariff Supplement BCTC-1; and</li><li>• The current Burrard Heat Rate, as defined in section 1 of Tariff Supplement BCTC-1.</li></ul> |



## NE Reporting

BCTC reports Network Economy Utilization on a weekly basis.

The data is located under

[http://www.bctc.com/transmission\\_scheduling/transaction\\_data/Transaction\\_Data-Network\\_Economy/Transaction\\_Data-Network\\_Economy/](http://www.bctc.com/transmission_scheduling/transaction_data/Transaction_Data-Network_Economy/Transaction_Data-Network_Economy/):

➤ Transaction Data

→ Network Economy

→ Network Economy Utilization

## Business Practice: Reporting cont'd

| Settlement Agreement | Business Practice – Non-firm PTP Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agreement, Section 8 | <p>On a weekly basis, BCTC posts the following data with respect to non-firm PTP service at <a href="http://www.bctc.com/transmission_scheduling/transaction_data/">http://www.bctc.com/transmission_scheduling/transaction_data/</a> :</p> <ul style="list-style-type: none"><li>• MWh Volume of Non-Firm Point-To-Point reservations – Amount of Non-Firm Point-To-Point transmission reservations;</li><li>• MWh Volume of Non-Firm Point-To-Point Scheduled Energy – Energy scheduled on Non-Firm Point-To-Point transmission reservations;</li><li>• Number of Non-Firm Point-To-Point transactions – Number of transactions for Non-Firm Point-To-Point transmission reservations. Number of transactions for Non-Firm Point-To-Point with scheduled energy. Number of Non-Firm Point-To-Point Energy Schedules; and</li><li>• Unused Non-Firm Point-To- Point – MWh volume of Non-Firm Point-To-Point transmission reservations minus MWh volume of Non-Firm Point-To-Point energy scheduled (both adjusted for curtailments and interruptions) and the utilization percentage for each hour.</li></ul> |



## Non-Firm Reporting

As required under Section 8, BCTC reports on all Non-Firm Utilization on a weekly basis and this report shows data for all customers on all paths

The report is titled “Non-Firm Utilization” report

The data is located under

[http://www.bctc.com/transmission\\_scheduling/transaction\\_data/Transaction\\_Data-Network\\_Economy/Non-Firm\\_Utilization/](http://www.bctc.com/transmission_scheduling/transaction_data/Transaction_Data-Network_Economy/Non-Firm_Utilization/)

➤ Transaction Data

→ Network Economy

→ Non-Firm Utilization

## Business Practice: Reporting cont'd

| Settlement Agreement    | Business Practice<br>Weekly Utilization Reports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Attachment Q, Section 5 | <p>On a weekly basis, BCTC posts the following data with respect to non-firm PTP service at <a href="http://www.bctc.com/transmission_scheduling/transaction_data/Transaction_Data-Network_Economy/Non-Firm_Utilization/">http://www.bctc.com/transmission_scheduling/transaction_data/Transaction_Data-Network_Economy/Non-Firm_Utilization/</a>:</p> <ul style="list-style-type: none"><li>• MWh volume of total energy scheduled for hourly and daily non-firm PTP services for the applicable week of the Utilization Test reporting period, as per Attachment Q, Section 5 of the Tariff; and</li><li>• MWh volume of total reservations for hourly and daily non-firm PTP services for the applicable week of the Utilization Test reporting period, as per Attachment Q, Section 5 of the Tariff.</li></ul> |



## Non-Firm Reporting

As required under Attachment Q, BCTC reports on Hourly and Daily Non-Firm Utilization by non-network customers on a weekly basis and this report is used in the Utilization Test Results

The report is titled “Non-Firm Utilization” report

The data is located under

[http://www.bctc.com/transmission\\_scheduling/transaction\\_data/Transaction\\_Data-Network\\_Economy/Non-Firm\\_Utilization/](http://www.bctc.com/transmission_scheduling/transaction_data/Transaction_Data-Network_Economy/Non-Firm_Utilization/):

➤ Transaction Data

→ Network Economy

→ Non-Firm Utilization

## Business Practice: Transmission Processing

| Settlement Agreement                                                                            | Business Practice<br>Transmission Processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Attachment Q, Section 2</b>                                                                  | <ul style="list-style-type: none"><li>• Once a NE reservation has been received, and the priority type for the service assigned based on the Economic Test (Type 1 or Type 2), the reservation will not undergo any further Economic Testing, and the assigned priority type will persist regardless of any changes.</li><li>• BCTC will determine the ATC available for the reservation and the cutting order of the reservation based upon whether the reservation was assigned a Type 1 or Type 2 priority.</li></ul>                                                                                                                       |
| <b>Agreement, Section 6</b><br><b>Attachment Q, Section 3</b><br><b>Attachment Q, Section 5</b> | <ul style="list-style-type: none"><li>• If a network customer fails the Utilization Test, then in the next calendar month any subsequent NE requests for the next hour that are submitted after xx:30 and before xx:40 will be assigned Type 2 priority.</li><li>• If a network customer passes the Utilization Test, then in the next calendar month if any of the hours are of Type 2 then the reservation will be assigned Type 2 priority; otherwise, the reservation will be assigned Type 1 priority.</li><li>• In determining priority BCTC will exclude any hours with a 0 MW entry (a gap in the transmission reservation).</li></ul> |

# OASIS Network Economy Type 1 Transmission

**Transmission Reservation Detail 69783512 CONFIRMED**

| Seller | Source Sink | POR<br>POD            | Request<br>Type | Start                  | Stop                   | MW<br>Req | MW<br>Grant | Bid<br>Price | Offer<br>Price | Ceiling<br>Price | Price<br>Unit |
|--------|-------------|-----------------------|-----------------|------------------------|------------------------|-----------|-------------|--------------|----------------|------------------|---------------|
| BCTC   |             | AB.BC<br>BCTC.NTWK.LD | ORIGINAL        | 2007-02-23<br>11:00 PS | 2007-02-23<br>12:00 PS | 4         | 4           | 0.00         | 0.00           | 5.30             | \$CDN/MWh     |

Path: W/BCTC/AESO - BCTC//

| Service Code               | Increment | Class     | Type    | Period      | Window | Subclass |
|----------------------------|-----------|-----------|---------|-------------|--------|----------|
| HRLY_SEC_NETWORK_PTP_FIXED | HOURLY    | SECONDARY | NETWORK | FULL_PERIOD | FIXED  |          |

Preconfirmed: Yes    Competing: No    Negotiated: No    Nerc Priority: 1    Affiliate: No

**Reservation Profile**

| Start Date             | Stop Date              | MW<br>Req | MW<br>Grant | MWH  | Bid<br>Price | Offer<br>Price |
|------------------------|------------------------|-----------|-------------|------|--------------|----------------|
| 2007-02-23<br>11:00 PS | 2007-02-23<br>12:00 PS | 4         | 4           | 4.00 | 0.00         | 0.00           |
| <b>Profile Total:</b>  |                        |           |             | 4.00 |              |                |

Time (Hours)

| Comments |                          | Times    |                        | References |  |
|----------|--------------------------|----------|------------------------|------------|--|
| Status   |                          | Queued   | 2007-02-23 10:39:34 PS | Deal       |  |
| Seller   | Network Economy - Type 1 | Updated  | 2007-02-23 10:40:03 PS | Sale       |  |
| Provider |                          | Response |                        | Posting    |  |
| Customer | TSSTEST2                 |          |                        | Request    |  |
| Impacted | 0                        |          |                        | Reassigned |  |
|          |                          |          |                        | Seller     |  |
|          |                          |          |                        | Related    |  |

**Status Notification**

| Customer: EEMI |            |
|----------------|------------|
| Name           | EEMI_Test1 |
| Phone          |            |
| E-mail         |            |

| Seller: BCTC |          |
|--------------|----------|
| Name         | BCTC_TSS |
| Phone        |          |
| E-mail       |          |

# OASIS Network Economy Type 2 Transmission

**Transmission Reservation Detail 69783513 CONFIRMED**

| Seller | Source Sink | POR POD               | Request Type | Start                  | Stop                   | MW Req | MW Grant | Bid Price | Offer Price | Ceiling Price | Price Unit |
|--------|-------------|-----------------------|--------------|------------------------|------------------------|--------|----------|-----------|-------------|---------------|------------|
| BCTC   |             | AB.BC<br>BCTC.NTWK.LD | ORIGINAL     | 2007-02-23<br>12:00 PS | 2007-02-23<br>16:00 PS | 50     | 50       | 0.00      | 0.00        | 5.30          | \$CDN/MWh  |

Path: W/BCTC/AESO - BCTC//

| Service Code               | Increment | Class     | Type    | Period      | Window | Subclass |
|----------------------------|-----------|-----------|---------|-------------|--------|----------|
| HRLY_SEC_NETWORK_PTP_FIXED | HOURLY    | SECONDARY | NETWORK | FULL_PERIOD | FIXED  |          |

Preconfirmed: Yes      Competing: No      Negotiated: No      Nerc Priority: 1      Affiliate: No

**Reservation Profile**

| Start Date             | Stop Date              | MW Req | MW Grant | MWH    | Bid Price | Offer Price |
|------------------------|------------------------|--------|----------|--------|-----------|-------------|
| 2007-02-23<br>12:00 PS | 2007-02-23<br>16:00 PS | 50     | 50       | 200.00 | 0.00      | 0.00        |
| <b>Profile Total:</b>  |                        |        |          | 200.00 |           |             |

2/23/2007

| Comments |                          | Times    |                        | References |  |
|----------|--------------------------|----------|------------------------|------------|--|
| Status   |                          | Queued   | 2007-02-23 11:39:14 PS | Deal       |  |
| Seller   | Network Economy - Type 2 | Updated  | 2007-02-23 11:39:50 PS | Sale       |  |
| Provider |                          | Response |                        | Posting    |  |
| Customer | TSSTEST2                 |          |                        | Request    |  |
| Impacted | 0                        |          |                        | Reassigned |  |
|          |                          |          |                        | Seller     |  |
|          |                          |          |                        | Related    |  |

**Status Notification**

# OASIS – Network Economy Type 2 Transmission Failed UTR, Tx submitted between XX:30 and XX:40

**Transmission Reservation Detail 69783957 CONFIRMED**

Close

Customer Update

Create New TSR

Post For Resale

TransAssign

Print View

Audit

| Seller | Source Sink | POR POD                      | Request Type | Start                  | Stop                   | MW Req | MW Grant | Bid Price | Offer Price | Ceiling Price | Price Unit |
|--------|-------------|------------------------------|--------------|------------------------|------------------------|--------|----------|-----------|-------------|---------------|------------|
| BCTC   |             | BC.US.BORDER<br>BCTC.NTWK.LD | ORIGINAL     | 2007-03-13<br>17:00 PD | 2007-03-13<br>18:00 PD | 15     | 15       | 0.00      | 0.00        | 5.30          | \$CDN/MWh  |

Path: W/BCTC/BPAT - BCTC//

| Service Code               | Increment | Class     | Type    | Period      | Window | Subclass |
|----------------------------|-----------|-----------|---------|-------------|--------|----------|
| HRLY_SEC_NETWORK_PTP_FIXED | HOURLY    | SECONDARY | NETWORK | FULL_PERIOD | FIXED  |          |

Preconfirmed: Yes    Competing: No    Negotiated: No    Nerc Priority: 1    Affiliate: No

**Reservation Profile**

| Start Date             | Stop Date              | MW Req | MW Grant | MWH   | Bid Price | Offer Price |
|------------------------|------------------------|--------|----------|-------|-----------|-------------|
| 2007-03-13<br>17:00 PD | 2007-03-13<br>18:00 PD | 15     | 15       | 15.00 | 0.00      | 0.00        |

Profile Total: 15.00

3/13/2007

| Comments |                          | Times    |                        | References |  |
|----------|--------------------------|----------|------------------------|------------|--|
| Status   |                          | Queued   | 2007-03-13 16:31:04 PD | Deal       |  |
| Seller   | Network Economy - Type 2 | Updated  | 2007-03-13 16:31:52 PD | Sale       |  |
| Provider |                          | Response |                        | Posting    |  |
| Customer | TSSTEST2                 |          |                        | Request    |  |
| Impacted | 0                        |          |                        | Reassigned |  |
|          |                          |          |                        | Seller     |  |
|          |                          |          |                        | Related    |  |

Status Notification

|                |            |              |          |
|----------------|------------|--------------|----------|
| Customer: TEMC |            | Seller: BCTC |          |
| Name           | TEMC_Test1 | Name         | BCTC_TSS |

# Energy Processing

Tag Display -- AESO\_BCTCDFLOSSL\_BCTC

Create New Tag

Short Form

Approval Status

XML Log

Print

Help

Tag Information

| GCA  | PSE  | Tag Code | LCA  |
|------|------|----------|------|
| AESO | BCTC | DFLOSSL  | BCTC |

Time Zone: PS

This is a test tag

Transaction type: Normal

Contact Information

|              |                          |
|--------------|--------------------------|
| PSE Code     | BCTC                     |
| PSE Contact  | DavidFong                |
| PSE Phone    | (604)473-2723            |
| PSE Fax      | (604)696-9886            |
| Gen Contact  | System Controller        |
| Gen Phone    | (403)233-7476            |
| Gen Fax      | (403)261-7864            |
| Load Contact | Control Area Preschedule |
| Load Phone   | (604)473-2723            |
| Load Fax     | (604)696-9886            |
| Comment      | TSSTEST2                 |

Market Path

| PSE    | Product | Contract | Misc |
|--------|---------|----------|------|
| AESO   | G-F     |          | No   |
| PWX01  |         |          | No   |
| BCPS01 | L       |          | No   |

Requests

| # | Type                        | Issued by  | Time        | Status               |
|---|-----------------------------|------------|-------------|----------------------|
|   | <a href="#">Current Tag</a> |            |             |                      |
| 0 | <a href="#">Creation</a>    | BCTC (PSE) | 02-22 16:45 | <a href="#">DEAD</a> |

Physical Path

| CA   | TP   | PSE    | POR       | POD            | Sched Entities | Contract | Misc |
|------|------|--------|-----------|----------------|----------------|----------|------|
| AESO |      | AESO   |           | Source: AB gen |                |          | No   |
|      | AESO | AESO   | AB system | AB BC          | AESO           |          | No   |
|      | BCTC | PWX01  | AB BC     | BCTC Ntwk Ld   | BCTC           |          | No   |
| BCTC |      | BCPS01 |           | Sink: BCHA     |                |          | No   |

Energy and Transmission Profiles

MW (out of)

|            | Energy        | Transmission  |                                                                                                                                        |
|------------|---------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Start Time | 2/22/07 17:00 | 2/22/07 17:00 | <input checked="" type="checkbox"/> MW <input checked="" type="checkbox"/> Reservation <input checked="" type="checkbox"/> Trans Total |
| Stop Time  | 2/22/07 18:00 | 2/22/07 18:00 | <input type="button" value="Enter"/>                                                                                                   |

| Date                    | Start | Stop  | Gen | AESO  |        |    |       | BCTC     |    |       |       | Ramp Dur. |  |
|-------------------------|-------|-------|-----|-------|--------|----|-------|----------|----|-------|-------|-----------|--|
|                         |       |       | MW  | Trans | TESTTx | MW | Trans | 69763564 | MW | Trans | Start | Stop      |  |
| 2/22                    | 17:00 | 18:00 | 10  | 10    | 10     | 10 | 10    | 10       | 10 | 10    |       |           |  |
| Display MWH Total:      |       |       | 10  | 10    | 10     | 10 | 10    | 10       | 10 | 10    |       |           |  |
| Original Tag MWH Total: |       |       | 10  |       |        |    |       |          |    |       |       |           |  |

2/22/07

11

10

Refresh

Segment : Gen

# Energy Processing

## Status of Tag AESO\_BCTCDFLOSSL\_BCTC

| GCA  | PSE  | Tag Code | LCA  | Authority | Creation Time    |
|------|------|----------|------|-----------|------------------|
| AESO | BCTC | DFLOSSL  | BCTC | Internal  | 2007-02-22 16:45 |

## Approval Status

| Req ID | Req Type | Author    | Creation Time    | Approval Time    | Status               | Submitted | <a href="#">AESO</a><br>(GCA, SCA) | <a href="#">AESO</a><br>(TP) | <a href="#">AESO</a><br>(GPE, TX Cust) | <a href="#">BCPS01</a><br>(LSE, TX Cust) | <a href="#">BCTC</a><br>(Author) | <a href="#">BCTC</a><br>(TP) | <a href="#">BCTC</a><br>(LCA, SCA) | <a href="#">PNSC</a><br>(SC) | <a href="#">PWX01</a><br>(PSE) |
|--------|----------|-----------|------------------|------------------|----------------------|-----------|------------------------------------|------------------------------|----------------------------------------|------------------------------------------|----------------------------------|------------------------------|------------------------------------|------------------------------|--------------------------------|
| 0      | New Tag  | BCTC(PSE) | 2007-02-22 16:45 | 2007-02-22 16:51 | <a href="#">Dead</a> | Late      | Approved                           | Approved                     | Approved                               | n/a                                      | n/a                              | Denied                       | Denied                             | n/a                          | n/a                            |

## Approval Status History

| Req ID | Request      | Company | Type | Origin | Action  | Action Time (PST)   | User              | Reason/Comment                                             |
|--------|--------------|---------|------|--------|---------|---------------------|-------------------|------------------------------------------------------------|
| 0      | Tag Creation | BCTC    | PSE  | INT    | CREATE  | 2007-02-22 16:45:32 | DavidFong         | TSSTEST2                                                   |
| 0      | Tag Creation | BCTC    | CA   | INT    | APPROVE | 2007-02-22 16:45:33 | DavidFong         |                                                            |
| 0      | Tag Creation | BCTC    | TP   | INT    | APPROVE | 2007-02-22 16:45:33 | DavidFong         |                                                            |
| 0      | Tag Creation | BCTC    | CA   | INT    | DENY    | 2007-02-22 16:46:07 | WD:OATI           | Insufficient AEC for the transmission reservation required |
| 0      | Tag Creation | BCTC    | TP   | INT    | DENY    | 2007-02-22 16:46:08 | WD:OATI           | Insufficient AEC for the transmission reservation required |
| 0      | Tag Creation | AESO    | CA   | INT    | APPROVE | 2007-02-22 16:52:02 | ETS auto-approval | Automatically approved by ETS                              |
| 0      | Tag Creation | AESO    | TP   | INT    | APPROVE | 2007-02-22 16:52:02 | ETS auto-approval | Automatically approved by ETS                              |
| 0      | Tag Creation | AESO    | PSE  | INT    | APPROVE | 2007-02-22 16:52:02 | ETS auto-approval | Automatically approved by ETS                              |
| 0      | Tag Creation |         |      |        | DEAD    | 2007-02-22 16:52:03 | OATI              | Time based approval                                        |

[Refresh](#)
[View Tag](#)
[View XML Log](#)
[Help](#)
[Close](#)

# Questions and Feedback

