



# CAPACITY BENEFIT MARGIN PLACEHOLDER

Electric System Planning

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## 1 PURPOSE

This document describes Lakeland Electric's (LAK's) implementation of a methodology for calculating Capacity Benefit Margin (CBM) and provides information related to LAK's calculation of CBM as a Transmission Service Provider. This document will promote the consistent and reliable calculation, verification, preservation, and use of CBM to support analysis and system operations. This document includes or references applicable documentation that demonstrates LAK's compliance with the requirements of the NERC standards for a CBM Implementation Document (CBMID).

## 2 INTRODUCTION

### 2.1 APPLICABILITY

- Load-Serving Entities (LSE)
- Resource Planners (RP)
- Transmission Service Providers (TSP)
- Balancing Authorities (BA)
- Transmission Planners (TP), when their associated TSP has elected to maintain CBM

### 2.2 REFERENCE

- NERC Reliability Standards MOD-004, -006, -007.
- OATI FTTCS TTC/ATC CALCULATION REFERENCE DOCUMENT ("Methodology Document")

### 2.3 EFFECTIVE DATE

- MARCH 31, 2011

## 3 BACKGROUND

The NERC MOD standard MOD-004 Capacity Benefit Margin Calculation Methodology describes the requirements and details for a Capacity Benefit Margin Implementation Document (TRMID).

TRM and Capacity Benefit Margin (CBM) are the two transmission transfer capability margins used in the calculation of Total Transfer Capability (TTC) and Available Transfer Capability (ATC). Transmission users benefit from the assurance that transmission services will be reliable under a broad range of potential system conditions due to TRM and CBM inclusion in transfer calculations.

Capacity Benefit Margin is defined as the amount of firm transmission transfer capability preserved by the transmission provider for Load-Serving Entities (LSEs), whose loads are located on that Transmission Service Provider's system, to enable access by the LSEs to generation from interconnected systems to meet generation reliability requirements. Preservation of CBM for an LSE allows that entity to reduce its installed generating capacity below that which may otherwise have been necessary without interconnections to meet its generation reliability requirements. The transmission transfer capability preserved as CBM is intended to be used by the LSE only in times of emergency generation deficiencies.

\*\*\*\*\*NOTICE\*\*\*\*\*

LAK does not maintain CBM. This document is a placeholder for a CBMID for when/if maintaining CBM becomes necessary. If LAK, as a TOP, RP, TP or LSE, determines the need to reserve CBM this document will be modified and communicated appropriately.

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This document indicates LAK's response to the MOD standards dealing with CBM.

## 4 REQUIREMENTS

### 4.1 MOD-004 CAPACITY BENEFIT MARGIN

**Purpose:** To promote the consistent and reliable calculation, verification, preservation, and use of Capacity Benefit Margin (CBM) to support analysis and system operations.

#### 4.1.1 CBMID (MOD-004 R1)

REQUIREMENT OWNER: TRANSMISSION PLANNER

*R1. THE TRANSMISSION SERVICE PROVIDER THAT MAINTAINS CBM SHALL PREPARE AND KEEP CURRENT A "CAPACITY BENEFIT MARGIN IMPLEMENTATION DOCUMENT" (CBMID) THAT INCLUDES, AT A MINIMUM, THE FOLLOWING INFORMATION:*

*R1.1 THE PROCESS THROUGH WHICH A LOAD-SERVING ENTITY WITHIN A BALANCING AUTHORITY AREA ASSOCIATED WITH THE TRANSMISSION SERVICE PROVIDER, OR THE RESOURCE PLANNER ASSOCIATED WITH THAT BALANCING AUTHORITY AREA, MAY ENSURE THAT ITS NEED FOR TRANSMISSION CAPACITY TO BE SET ASIDE AS CBM WILL BE REVIEWED AND ACCOMMODATED BY THE TRANSMISSION SERVICE PROVIDER TO THE EXTENT TRANSMISSION CAPACITY IS AVAILABLE.*

*R1.2 THE PROCEDURE AND ASSUMPTIONS FOR ESTABLISHING CBM FOR EACH AVAILABLE TRANSFER CAPABILITY (ATC) PATH OR FLOWGATE.*

*R1.3 THE PROCEDURE FOR A LOAD-SERVING ENTITY OR BALANCING AUTHORITY TO USE TRANSMISSION CAPACITY SET ASIDE AS CBM, INCLUDING THE MANNER IN WHICH THE TRANSMISSION SERVICE PROVIDER WILL MANAGE SITUATIONS WHERE THE REQUESTED USE OF CBM EXCEEDS THE AMOUNT OF CBM AVAILABLE.*

LAK does not maintain CBM and does not maintain a CBMID beyond this placeholder document.

#### **4.1.2 TRANSMITTAL OF CBMID (MOD-004 R2)**

REQUIREMENT OWNER: TRANSMISSION SERVICE PROVIDER

*R2. THE TRANSMISSION SERVICE PROVIDER THAT MAINTAINS CBM SHALL MAKE AVAILABLE ITS CURRENT CBMID TO THE TRANSMISSION OPERATORS, TRANSMISSION SERVICE PROVIDERS, RELIABILITY COORDINATORS, TRANSMISSION PLANNERS, RESOURCE PLANNERS, AND PLANNING COORDINATORS THAT ARE WITHIN OR ADJACENT TO THE TRANSMISSION SERVICE PROVIDER'S AREA, AND TO THE LOAD SERVING ENTITIES AND BALANCING AUTHORITIES WITHIN THE TRANSMISSION SERVICE PROVIDER'S AREA, AND NOTIFY THOSE ENTITIES OF ANY CHANGES TO THE CBMID PRIOR TO THE EFFECTIVE DATE OF THE CHANGE.*

LAK does not maintain CBM and does not keep a current CBMID beyond this placeholder document. If LAK determines the need for CBM a new CBMID will be developed and communicated appropriately.

#### **4.1.3 LSE CBM CALCULATION (MOD-004 R3)**

REQUIREMENT OWNER: LOAD SERVING ENTITY

*R3. EACH LOAD-SERVING ENTITY DETERMINING THE NEED FOR TRANSMISSION CAPACITY TO BE SET ASIDE AS CBM FOR IMPORTS INTO A BALANCING AUTHORITY AREA SHALL DETERMINE THAT NEED BY*

*R3.1. USING ONE OR MORE OF THE FOLLOWING TO DETERMINE THE GCIR:*

- *LOSS OF LOAD EXPECTATION (LOLE) STUDIES*
- *LOSS OF LOAD PROBABILITY (LOLP) STUDIES*
- *DETERMINISTIC RISK-ANALYSIS STUDIES*
- *RESERVE MARGIN OR RESOURCE ADEQUACY REQUIREMENTS ESTABLISHED BY OTHER ENTITIES, SUCH AS MUNICIPALITIES, STATE COMMISSIONS, REGIONAL TRANSMISSION ORGANIZATIONS, INDEPENDENT SYSTEM OPERATORS, REGIONAL RELIABILITY ORGANIZATIONS, OR REGIONAL ENTITIES*

*R3.2. IDENTIFYING EXPECTED IMPORT PATH(S) OR SOURCE REGION*

LAK, as a LSE, does not maintain CBM.

#### **4.1.4 RP CBM CALCULATION (MOD-004 R4)**

REQUIREMENT OWNER: RESOURCE PLANNER

*R4. EACH RESOURCE PLANNER DETERMINING THE NEED FOR TRANSMISSION CAPACITY TO BE SET ASIDE AS CBM FOR IMPORTS INTO A BALANCING AUTHORITY AREA SHALL DETERMINE THAT NEED BY:*

*R4.1. USING ONE OR MORE OF THE FOLLOWING TO DETERMINE THE GCIR:*

- *LOSS OF LOAD EXPECTATION (LOLE) STUDIES*
- *LOSS OF LOAD PROBABILITY (LOLP) STUDIES*
- *DETERMINISTIC RISK-ANALYSIS STUDIES*
- *RESERVE MARGIN OR RESOURCE ADEQUACY REQUIREMENTS ESTABLISHED BY OTHER ENTITIES, SUCH AS MUNICIPALITIES, STATE COMMISSIONS, REGIONAL TRANSMISSION ORGANIZATIONS, INDEPENDENT SYSTEM OPERATORS, REGIONAL RELIABILITY ORGANIZATIONS, OR REGIONAL ENTITIES*

*R4.2. IDENTIFYING EXPECTED IMPORT PATH(S) OR SOURCE REGION(S).*

LAK, as a RP, does not maintain CBM.

#### **4.1.5 13 MONTH CBM CALCULATION (MOD-004 R5)**

REQUIREMENT OWNER: TRANSMISSION SERVICE PROVIDER

*R5. AT LEAST EVERY 13 MONTHS, THE TRANSMISSION SERVICE PROVIDER THAT MAINTAINS CBM SHALL ESTABLISH A CBM VALUE FOR EACH ATC PATH OR FLOWGATE TO BE USED FOR ATC OR AVAILABLE FLOWGATE CAPABILITY (AFC) CALCULATIONS DURING THE 13 FULL CALENDAR MONTHS (MONTHS 2-14) FOLLOWING THE CURRENT MONTH (THE MONTH IN WHICH THE TRANSMISSION SERVICE PROVIDER IS ESTABLISHING THE CBM VALUES). THIS VALUE SHALL:*

*R5.1. REFLECT CONSIDERATION OF EACH OF THE FOLLOWING IF AVAILABLE:*

- *ANY STUDIES (AS DESCRIBED IN R3.1) PERFORMED BY LOAD-SERVING ENTITIES FOR LOADS WITHIN THE TRANSMISSION SERVICE PROVIDER'S AREA*
- *ANY STUDIES (AS DESCRIBED IN R4.1) PERFORMED BY RESOURCE PLANNERS FOR LOADS WITHIN THE TRANSMISSION SERVICE PROVIDER'S AREA*
- *ANY RESERVE MARGIN OR RESOURCE ADEQUACY REQUIREMENTS FOR LOADS WITHIN THE TRANSMISSION SERVICE PROVIDER'S AREA ESTABLISHED BY OTHER ENTITIES, SUCH AS MUNICIPALITIES, STATE COMMISSIONS, REGIONAL TRANSMISSION ORGANIZATIONS, INDEPENDENT SYSTEM OPERATORS, REGIONAL RELIABILITY ORGANIZATIONS, OR REGIONAL ENTITIES*

*R5.2. BE ALLOCATED AS FOLLOWS:*

- *FOR ATC PATHS, BASED ON THE EXPECTED IMPORT PATHS OR SOURCE REGIONS PROVIDED BY LOAD-SERVING ENTITIES OR RESOURCE PLANNERS*
- *FOR FLOWGATES, BASED ON THE EXPECTED IMPORT PATHS OR SOURCE REGIONS PROVIDED BY LOAD-SERVING ENTITIES OR RESOURCE PLANNERS AND THE DISTRIBUTION FACTORS ASSOCIATED WITH THOSE PATHS OR REGIONS, AS DETERMINED BY THE TRANSMISSION SERVICE PROVIDER*

LAK [TOP / TSP / LES] does not maintain CBM and will not post a value for each ATC path.

#### **4.1.6 PLANNING HORIZON CBM CALCULATION (MOD-004 R6)**

REQUIREMENT OWNER: TRANSMISSION PLANNER

*R6. AT LEAST EVERY 13 MONTHS, THE TRANSMISSION PLANNER SHALL ESTABLISH A CBM VALUE FOR EACH ATC PATH OR FLOWGATE TO BE USED IN PLANNING DURING EACH OF THE FULL CALENDAR YEARS TWO THROUGH TEN FOLLOWING THE CURRENT YEAR (THE YEAR IN WHICH THE TRANSMISSION PLANNER IS ESTABLISHING THE CBM VALUES). THIS VALUE SHALL:*

*R6.1. REFLECT CONSIDERATION OF EACH OF THE FOLLOWING IF AVAILABLE:*

- *ANY STUDIES (AS DESCRIBED IN R3.1) PERFORMED BY LOAD-SERVING ENTITIES FOR LOADS WITHIN THE TRANSMISSION PLANNER'S AREA*
- *ANY STUDIES (AS DESCRIBED IN R4.1) PERFORMED BY RESOURCE PLANNERS FOR LOADS WITHIN THE TRANSMISSION PLANNER'S AREA*
- *ANY RESERVE MARGIN OR RESOURCE ADEQUACY REQUIREMENTS FOR LOADS WITHIN THE TRANSMISSION PLANNER'S AREA ESTABLISHED BY OTHER ENTITIES, SUCH AS MUNICIPALITIES, STATE COMMISSIONS, REGIONAL TRANSMISSION ORGANIZATIONS, INDEPENDENT SYSTEM OPERATORS, REGIONAL RELIABILITY ORGANIZATIONS, OR REGIONAL ENTITIES*

*R6.2. BE ALLOCATED AS FOLLOWS:*

- *FOR ATC PATHS, BASED ON THE EXPECTED IMPORT PATHS OR SOURCE REGIONS PROVIDED BY LOAD-SERVING ENTITIES OR RESOURCE PLANNERS*
- *FOR FLOWGATES, BASED ON THE EXPECTED IMPORT PATHS OR SOURCE REGIONS PROVIDED BY LOAD-SERVING ENTITIES OR RESOURCE PLANNERS AND THE DISTRIBUTION FACTORS ASSOCIATED WITH THOSE PATHS OR REGIONS, AS DETERMINED BY THE TRANSMISSION PLANNER.*

LAK [TP] does not maintain CBM and shall not establish a CBM value.

**4.1.7 TRANSMISSION SERVICE PROVIDER CBM NOTIFICATION (MOD-004 R7)**

REQUIREMENT OWNER: TRANSMISSION SERVICE PROVIDER

*R7. LESS THAN 31 CALENDAR DAYS AFTER THE ESTABLISHMENT OF CBM, THE TRANSMISSION SERVICE PROVIDER THAT MAINTAINS CBM SHALL NOTIFY ALL THE LOAD-SERVING ENTITIES AND RESOURCE PLANNERS THAT DETERMINED THEY HAD A NEED FOR CBM ON THE TRANSMISSION SERVICE PROVIDER'S SYSTEM OF THE AMOUNT OF CBM SET ASIDE.*

LAK does not maintain CBM. Upon establishment of CBM, LAK will notify all stakeholders appropriately.

**4.1.8 PLANNING HORIZONS CBM NOTIFICATION (MOD-004 R8)**

REQUIREMENT OWNER: TRANSMISSION PLANNER

*R8. LESS THAN 31 CALENDAR DAYS AFTER THE ESTABLISHMENT OF CBM, THE TRANSMISSION PLANNER SHALL NOTIFY ALL THE LOAD-SERVING ENTITIES AND RESOURCE PLANNERS THAT DETERMINED THEY HAD A NEED FOR CBM ON THE SYSTEM BEING PLANNED BY THE TRANSMISSION PLANNER OF THE AMOUNT OF CBM SET ASIDE.*

LAK does not maintain CBM. Upon establishment of CBM, LAK will notify all stakeholders appropriately.

**4.1.9 PLANNING HORIZON CBM CALCULATION DATA (MOD-004 R9)**

REQUIREMENT OWNER: TRANSMISSION SERVICE PROVIDER

*R9. THE TRANSMISSION SERVICE PROVIDER THAT MAINTAINS CBM AND THE TRANSMISSION PLANNER SHALL EACH PROVIDE (SUBJECT TO CONFIDENTIALITY AND SECURITY REQUIREMENTS) COPIES OF THE APPLICABLE SUPPORTING DATA, INCLUDING ANY MODELS, USED FOR DETERMINING CBM OR ALLOCATING CBM OVER EACH ATC PATH OR FLOWGATE TO THE FOLLOWING:*

*R9.1 EACH OF ITS ASSOCIATED TRANSMISSION OPERATORS WITHIN 30 CALENDAR DAYS OF THEIR MAKING A REQUEST FOR THE DATA.*

*R9.2 TO ANY TRANSMISSION SERVICE PROVIDER, RELIABILITY COORDINATOR, TRANSMISSION PLANNER, RESOURCE PLANNER, OR PLANNING COORDINATOR WITHIN 30 CALENDAR DAYS OF THEIR MAKING A REQUEST FOR THE DATA.*

LAK does not maintain CBM. Upon establishment of CBM, LAK will notify all stakeholders appropriately.

#### **4.1.10 LSE REQUESTS FOR TRANSMISSION SERVICE (CBM) (MOD-004 R10)**

REQUIREMENT OWNER: LOAD SERVING ENTITY

*R10. THE LOAD-SERVING ENTITY OR BALANCING AUTHORITY SHALL REQUEST TO IMPORT ENERGY OVER FIRM TRANSFER CAPABILITY SET ASIDE AS CBM ONLY WHEN EXPERIENCING A DECLARED NERC ENERGY EMERGENCY ALERT (EEA) 2 OR HIGHER.*

LAK does not maintain CBM. Upon establishment of CBM, LAK will notify all stakeholders appropriately.

#### **4.1.11 CBM USE AND ARRANGED INTERCHANGE (MOD-004 R11)**

REQUIREMENT OWNER: TRANSMISSION SERVICE PROVIDER

*R11. WHEN REVIEWING AN ARRANGED INTERCHANGE USING CBM, ALL BALANCING AUTHORITIES AND TRANSMISSION SERVICE PROVIDERS SHALL WAIVE, WITHIN THE BOUNDS OF RELIABLE OPERATION, ANY REAL-TIME TIMING AND RAMPING REQUIREMENTS.*

LAK does not maintain CBM. Upon establishment of CBM, LAK will notify all stakeholders appropriately.

#### **4.1.12 CBM USE AND ARRANGED INTERCHANGE (MOD-004 R12)**

REQUIREMENT OWNER: TRANSMISSION SERVICE PROVIDER

*R12. THE TRANSMISSION SERVICE PROVIDER THAT MAINTAINS CBM SHALL APPROVE, WITHIN THE BOUNDS OF RELIABLE OPERATION, ANY ARRANGED INTERCHANGE USING CBM THAT IS SUBMITTED BY AN "ENERGY DEFICIENT ENTITY1" UNDER AN EEA 2 IF:*

*R12.1 THE CBM IS AVAILABLE*

*R12.2 THE EEA 2 IS DECLARED WITHIN THE BALANCING AUTHORITY AREA OF THE "ENERGY DEFICIENT ENTITY," AND*

*R12.3 THE LOAD OF THE "ENERGY DEFICIENT ENTITY" IS LOCATED WITHIN THE TRANSMISSION SERVICE PROVIDER'S AREA.*

LAK does not maintain CBM. Upon establishment of CBM, LAK will notify all stakeholders appropriately.

## **4.2 MOD-006 PROCEDURE FOR THE USE OF CBM VALUES**

**Purpose:** To promote the consistent and uniform use of transmission Transfer Capability margins calculations among transmission system users.

### **4.2.1 CBM PROCEDURE DOCUMENTATION (MOD-006 R1)**

REQUIREMENT OWNER: TRANSMISSION SERVICE PROVIDER

*R1. EACH TRANSMISSION SERVICE PROVIDER SHALL DOCUMENT ITS PROCEDURE ON THE USE OF CAPACITY BENEFIT MARGIN (CBM) (SCHEDULING OF ENERGY AGAINST A CBM RESERVATION). THE PROCEDURE SHALL INCLUDE THE FOLLOWING THREE COMPONENTS:*

*R1.1. REQUIRE THAT CBM BE USED ONLY AFTER THE FOLLOWING STEPS HAVE BEEN TAKEN (AS TIME PERMITS): ALL NON-FIRM SALES HAVE BEEN TERMINATED, DIRECT-CONTROL LOAD MANAGEMENT HAS BEEN IMPLEMENTED, AND CUSTOMER INTERRUPTIBLE DEMANDS HAVE BEEN INTERRUPTED.*

*CBM MAY BE USED TO REESTABLISH OPERATING RESERVES.*

*R1.2. REQUIRE THAT CBM SHALL ONLY BE USED IF THE LOAD-SERVING ENTITY CALLING FOR ITS USE IS EXPERIENCING A GENERATION DEFICIENCY AND ITS TRANSMISSION SERVICE PROVIDER IS ALSO EXPERIENCING TRANSMISSION CONSTRAINTS RELATIVE TO IMPORTS OF ENERGY ON ITS TRANSMISSION SYSTEM.*

*R1.3. DESCRIBE THE CONDITIONS UNDER WHICH CBM MAY BE AVAILABLE AS NON-FIRM*

MOD-006 does not apply as LAK doesn't use CBM. Therefore no procedures are presented herein.

#### **4.2.2 CBM PROCEDURE DISSEMINATION (MOD-006 R2)**

REQUIREMENT OWNER: TRANSMISSION SERVICE PROVIDER

*R2. EACH TRANSMISSION SERVICE PROVIDER SHALL MAKE ITS CBM USE PROCEDURE AVAILABLE ON A WEBSITE ACCESSIBLE BY THE REGIONAL RELIABILITY ORGANIZATIONS, NERC, AND TRANSMISSION USERS.*

MOD-006 does not apply as LAK doesn't use CBM. Therefore no procedures are available.

### **4.3 MOD-007 DOCUMENTATION OF THE USE OF CAPACITY BENEFIT MARGIN**

**Purpose:** To promote the consistent and uniform application of Transfer Capability margin calculations among transmission system users by developing methodologies for calculating Capacity Benefit Margin (CBM). This methodology shall comply with NERC definitions for CBM, the NERC Reliability Standards, and applicable Regional criteria.

#### **4.3.1 CBM USAGE DOCUMENTATION (MOD-007 R1)**

REQUIREMENT OWNER: TRANSMISSION SERVICE PROVIDER

*R1. EACH TRANSMISSION SERVICE PROVIDER THAT USES CBM SHALL REPORT (TO THE REGIONAL RELIABILITY ORGANIZATION, NERC AND THE TRANSMISSION USERS) THE USE OF CBM BY THE LOAD-SERVING ENTITIES' LOADS ON ITS SYSTEM, EXCEPT FOR CBM SALES AS NON-FIRM TRANSMISSION SERVICE. (THIS USE OF CBM SHALL BE CONSISTENT WITH THE TRANSMISSION SERVICE PROVIDER'S PROCEDURE FOR USE OF CBM.)*

LAK does not maintain CBM and therefore will not offer or report the use of CBM by LSE Loads on its Systems.

#### **4.3.2 CBM USAGE POSTING (MOD-007 R2)**

REQUIREMENT OWNER: TRANSMISSION SERVICE PROVIDER

*R2. THE TRANSMISSION SERVICE PROVIDER SHALL POST THE FOLLOWING THREE ITEMS WITHIN 15 CALENDAR DAYS AFTER THE USE OF CBM FOR AN ENERGY EMERGENCY. THIS POSTING SHALL BE ON A WEB SITE ACCESSIBLE BY THE REGIONAL RELIABILITY ORGANIZATIONS, NERC, AND TRANSMISSION USERS.*

*R2.1. CIRCUMSTANCES.*

*R2.2. DURATION.*

*R2.3. AMOUNT OF CBM USED.*

LAK will not provide as LAK does not maintain CBM and therefore will not report the use of CBM by LSE Loads on its Systems.

## 5 DEFINITIONS

Area Interchange Methodology - The Area Interchange methodology is characterized by determination of incremental transfer capability via simulation, from which Total Transfer Capability (TTC) can be mathematically derived. Capacity Benefit Margin, Transmission Reliability Margin, and Existing Transmission Commitments are subtracted from the TTC, and Postbacks and counterflows are added, to derive Available Transfer Capability. Under the Area Interchange Methodology, TTC results are generally reported on an area to area basis.

## 6 REFERENCE DOCUMENTS/NOTES

Title/Description		Number
Date	Notes	Author

## 7 AUDIT HISTORY

Date	Type	Response	Findings

## 8 REVISION HISTORY

Version	Date	Action	Reviewed/Approved By
1.0	2011.04.01	Document Creation	Watt, Larry

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