Торіс	Order	Cite	Brief Description	Addressed By	Detailed Citation
ATC	890	211	Standard AFC->ATC Calculation	MOD-030 R9	As TDU Systems note, there is neither a definition of AFC in NERC's Glossary nor an existing reliability standard that discusses the AFC method. In order to achieve consistency in each component of the ATC calculation (discussed below), we direct public utilities, working through NERC, to develop an AFC definition and requirements used to identify a particular set of transmission facilities as a flowgate. However, we remind transmission providers that our regulations require the posting of ATC values associated with a particular path, not AFC values associated with a flowgate. Transmission providers using an AFC methodology must therefore convert flowgate (AFC) values into path (ATC) values for OASIS posting. In order to have consistent posting of the ATC, TTC, CBM, and TRM values on OASIS, we direct public utilities, working through NERC, to develop in the MOD-001 standard a rule to convert AFC into ATC values to be used by transmission providers that currently use the flowgate methodology.
ATC	890	212	Firm ATC uses only Firm Commitments	MOD-028 R9, R11 MOD-029 R5, R7 MOD-030 R5, R7	The Commission also believes that further clarification is necessary regarding the calculation algorithms for firm and non-firm ATC. Currently, NERC has no standards for
ATC	890	212	Non-Firm ATC uses firm and non-firm commitments, postbacks or redirected services, unscheduled service, and counterflows	MOD-028 R10, R12 MOD-029 R6, R8 MOD-030 R6, R8 Unscheduled service will be handled as a postback under the NAESB Business Practices.	calculating non-firm ATC. We find that the same potential for discrimination exists for non- firm transmission service as for firm service and that greater uniformity in both firm and non- firm ATC calculations will substantially reduce the remaining potential for undue discrimination. Therefore, we direct public utilities, working through NERC, to modify related ATC standards by implementing the following principles for firm and non-firm ATC calculations: (1) for firm ATC calculations, the transmission provider shall account only for firm commitments; and (2) for non-firm ATC calculations, the transmission provider shall account for both firm and non-firm commitments, postbacks of redirected services, unscheduled service, and counterflows. We understand that these principles are currently followed by most transmission providers and believe they should be clearly set forth in the ATC-related reliability standards. As described below, each transmission provider's Attachment C must include a detailed formula for both firm and non-firm ATC, consistent with the modified ATC-related reliability standards.
ATC	890	237	Develop consistent practices for calculating TTC/TFC	MOD-028 R1, R2, R3, R4, R5 MOD-029 R1 MOD-030 R2.3, R2.4, R9	The Commission adopts the NOPR proposal and directs public utilities, working through NERC, to develop consistent practices for calculating TTC/TFC. We direct public utilities, working through NERC, to address, through the reliability standards process, any differences in developing TTC/TFC for transmission provided under the pro forma OATT a for transfer capability for native load and reliability assessment studies.
ATC	890	237	Address differences between Pro-Forma TTC and Native Load/Reliability Assessment TTC	MOD-001 R8 MOD-028 R1, R2, R3, R4, R5 MOD-029 R1 MOD-030 R2.3, R2.4, R9	

Торіс	Order	Cite	Brief Description	Addressed By	Detailed Citation
				MOD-028 R3, R6, R7 MOD-029 R5 MOD-030 R6.1	To achieve greater consistency in ETC calculations and further reduce the potential for undue discrimination, the Commission adopts the NOPR proposal and directs public utilities, working through NERC and NAESB, to develop a consistent approach for determining the amount of transfer capability a transmission provider may set aside for its native load and
ATC	890	243	Standard calc of native load use - include in MOD- 001	Note this is not contained in MOD-001, as the methodologies each implement this differently for logistical reasons.	other committed uses. We expect that NERC will address ETC through the MOD-001 reliability standard rather than through a separate reliability standard. By using MOD-001, the ETC calculation can be adjusted to be applicable to each of the three ATC methodologies under development by NERC.
ATC	890	244	In the short-term ATC calculation, all reserved but unused transfer capability (non-scheduled) shall be released as non-firm ATC.	Unscheduled service will be handled as a postback under the NAESB Business Practices.	
ATC	890	244	ETC = Native load (including Network)	MOD-028 R11 MOD-029 R5 MOD-030 R8	In order to provide specific direction to public utilities and NERC, we determine that ETC should be defined to include committed uses of the transmission system, including (1) native
ATC	890	244	ETC = Grandfathered	MOD-028 R11 MOD-029 R5 MOD-030 R8	load commitments (including network service), (2) grandfathered transmission rights, (3) appropriate point-to-point reservations, (4) rollover rights associated with long-term firm service, and (5) other uses identified through the NERC process. ETC should not be used to set aside transfer capability for any type of planning or contingency reserve, which are to be
ATC	890	244	ETC = Appropriate PTP	MOD-028 R11 MOD-029 R5 MOD-030 R8	addressed through CBM and TRM. In addition, in the short-term ATC calculation, all reserved but unused transfer capability (non-scheduled) shall be released as non-firm ATC.
ATC	890	244	ETC = Long-term Rollover rights	MOD-028 R11 MOD-029 R5 MOD-030 R8	
ATC	890	244	Define any additional ETC components	MOD-028 R11 MOD-029 R5 MOD-030 R8	

Торіс	Order	Cite	Brief Description	Addressed By	Detailed Citation
ATC	890	245	Reservations with Same POR whose SUM would exceed gen nameplate must be addressed	Not Addressed. The team does not believe this can be addressed any different that currently handled without compromising reliability. The customer has the right to schedule, and that right must be planned for.	We agree with TDU Systems that inclusion of all requests for transmission service in ETC would likely overstate usage of the system and understate ATC. We therefore find that reservations that have the same point of receipt (POR) (generator) but different point of delivery (POD) (load), for the same time frame, should not be modeled in the ETC calculation simultaneously if their combined reserved transmission capacity exceeds the generator's nameplate capacity at POR. This will prevent overly unrealistic utilization of transmission capacity associated with power output from a generator identified as a POR. We direct public utilities, working through NERC, to develop requirements in MOD-001 that lay out clear instructions on how these reservations should be accounted. One approach that could be used is examining historical patterns of actual reservation use during a particular season, month, or time of day.
ATC	890	262	CBM =0 in Non-Firm Calc	MOD-028 R11 MOD-029 R5 MOD-030 R8	Concerning TAPS' proposal to remove the reservation decision from the sole discretion of transmission providers, we determine that LSEs should be permitted to call for use of CBM, if they do so pursuant to conditions established in the reliability standards development process. We direct public utilities working through NERC to modify the CBM-related standards to specify the generation deficiency conditions during which an LSE will be allowed to use the transfer capability reserved as CBM. In addition, we direct that transmission set aside as CBM shall be zero in non-firm ATC calculations. Finally, we order public utilities to work with NAESB to develop an OASIS mechanism that will allow for auditing of CBM usage.
ATC	890	273	TRM <> 0 in Non-Firm Calc	MOD-028 R11 MOD-029 R5 MOD-030 R8	The Commission also adopts the NOPR proposal to establish standards specifying the appropriate uses of TRM to guide NERC and NAESB in the drafting process. Transmission providers may set aside TRM for (1) load forecast and load distribution error, (2) variations in facility loadings, (3) uncertainty in transmission system topology, (4) loop flow impact, (5) variations in generation dispatch, (6) automatic sharing of reserves, and (7) other uncertainties as identified through the NERC reliability standards development process. Because load, facility loading and other uncertainties constantly deviate, we will not require that TRM set aside capacity be set at zero in the non-firm ATC calculation. In other words, we will not require transfer capability that is set aside as TRM to be sold on a non-firm basis. We find that clear specification in this Final Rule of the permitted purposes for which entities may reserve CBM and TRM will virtually eliminate double-counting of TRM and CBM.
ATC	890	292	Planning Assumptions and ATC Assumptions should be the same	MOD-001 R8	The Commission also adopts the NOPR proposal to require transmission providers to use data and modeling assumptions for the short- and long-term ATC calculations that are consistent with that used for the planning of operations and system expansion, respectively,
ATC	890	292	Load levels the same plan/ops vs. ATC	MOD-001 R8	to the maximum extent practicable. This includes, for example: (1) load levels, (2) generation dispatch, (3) transmission and generation facilities maintenance schedules, (4) contingency outages, (5) topology, (6) transmission reservations, (7) assumptions regarding
ATC	890	292	Gen Dispatch the same plan/ops vs. ATC	MOD-001 R8	transmission and generation facilities additions and retirements, and (8) counterflows. W find that requiring consistency in the data and modeling assumptions used for ATC

Торіс	Order	Cite	Brief Description	Addressed By	Detailed Citation
ATC	890	292	TX and Gen Facilities maintenance the same plan/ops vs. ATC	MOD-001 R8	calculations will remedy the potential for undue discrimination by eliminating discretion ensuring comparability in the manner in which a transmission provider operates and pl its system to serve native load and the manner in which it calculates ATC for service to parties. The Commission directs public utilities, working through NERC, to modify ATC
ATC	890	292	Contingency outages the same plan/ops vs. ATC	MOD-001 R8	standards to achieve this consistency.
ATC	890	292	Topology the same plan/ops vs. ATC	MOD-001 R8	
ATC	890	292	TX Reservations the same plan/ops vs. ATC	MOD-001 R8	
ATC	890	292	Assumptions re: additions and retirements the same plan/ops vs. ATC	MOD-001 R8	
ATC	890	292	Counterflows the same plan/ops vs. ATC	MOD-001 R8	
ATC	890	293	Develop an approach for accounting for counterflows, in the relevant ATC standards and business practices.	MOD-001 R4, R5	With regard to EPSA's request for the standardization of additional data inputs, we believe they are already captured in the Commission's proposal as adopted in this Final Rule. Xcel asks the Commission to require consistency in the determination of counterflows in the calculation of ATC. Counterflows are included in the list of assumptions that public utilities, working through NERC, are required to make consistent. We believe that counterflows, if treated inconsistently, can adversely affect reliability and competition, depending on how they are accounted for. Accordingly, we reiterate that public utilities, working through NERC and NAESB, are directed to develop an approach for accounting for counterflows, in the relevant ATC standards and business practices. We find unnecessary Xcel's request that we require a date certain for specific issues in the Western Interconnection to be addressed. Above we require public utilities, working through NERC, to modify the ATC standards within 270 days after the publication of the Final Rule in the Federal Register.
ATC	890	295	Load level modeling methodology the same	MOD-001 R8, R10 MOD-028 R3, R4 MOD-029 R5 MOD-030 R5.1	We offer the following clarifications. In response to Southern, we clarify that we require consistent use of assumptions underlying operational planning for short-term ATC and expansion planning for long-term ATC calculation. We also clarify that there must be a consistent basis or approach to determining load levels. For example, one approach may be for transmission providers to calculate load levels using an on- and offpeak model for each month when evaluating yearly service requests and calculating yearly ATC. The same (peak- and off-peak) or alternative approaches may be used for monthly, weekly, daily and hourly ATC calculations. Regardless of the ultimate choice of approach, it is imperative that all transmission providers use the same approach to modeling load levels to enable the meaningful exchange of data among transmission providers. Accordingly, we direct public utilities, working through NERC, to develop consistent requirements for modeling load levels in MOD-001 for the services offered under the pro forma OATT.

Торіс	Order	Cite	Brief Description	Addressed By	Detailed Citation
ATC	890	296	Dispatch should include all DNRs and committed resources as expected to run, and uncommitted resources deliverable within CA, economically dispatched to meet balancing needs	MOD-001 R10 MOD-028 R3, R4 MOD-029 Not Applicable MOD-030 R6.1	With respect to modeling of generation dispatch, we direct public utilities, working through NERC, to develop requirements in NERC's MOD-001 reliability standard specifying how transmission providers shall determine which generators should be modeled in service, including guidance on how independent generation should be considered. We agree with Ameren that any modeling of base generation dispatch must model generators, including merchant generators, as they are expected to run. Accordingly, we direct public utilities, working through NERC, to revise reliability standard MOD-001 by specifying that base generation dispatch will model (1) all designated network resources and other resources that are committed or have the legal obligation to run, as they are expected to run and (2) uncommitted resources that are deliverable within the control area, economically dispatched as necessary to meet balancing requirements.
ATC	890	297	How to model POR to POD without source/sink	MOD-028 R5 MOD-029 Not Applicable MOD-030 R4.2 MOD-028 R5.3	Regarding transmission reservations modeling, we direct public utilities, working through NERC, to develop requirements in reliability standard MOD-001 that specify (1) a consistent approach on how to simulate reservations from points of receipt to points of delivery when
ATC	890	297	How to model existing reservations	MOD-029 Not Applicable MOD-030 R4.2	sources and sinks are unknown and (2) how to model existing reservations.
ATC	890	301	ATC to be recalculated by all transmission providers on a consistent time interval and in a manner that closely reflects the actual topology of the system,	MOD-001 R2, R9	The Commission adopts the NOPR proposal and requires the development of reliability standards that ensure ATC is calculated at consistent intervals among transmission providers. The Commission thus directs public utilities, working through NERC and NAESB, to revise reliability standard MOD-001 to require ATC to be recalculated by all transmission providers on a consistent time interval and in a manner that closely reflects the actual topology of the system, e.g., generation and transmission outages, load forecast, interchange schedules, transmission reservations, facility ratings, and other necessary data. This process must also consider whether ATC should be calculated more frequently for constrained facilities. ATC-related requirements for OASIS posting are discussed below.
ATC	890	310	Mandatory Data Exchange for ATC	MOD-001 R10	The Commission adopts the NOPR proposal and directs public utilities, working through NERC, to revise the related MOD reliability standards to require the exchange of data and
ATC	890	310	DEX Load	MOD-001 R10	coordination among transmission providers and, working through NAESB, to develop complementary business practices. The following data shall, at a minimum, be exchanged
ATC	890	310	DEX TX Plan and Contingency outages	MOD-001 R10	among transmission providers for the purposes of ATC modeling: (1) load levels; (2) transmission planned and contingency outages; (3) generation planned and contingency outages; (4) base generation dispatch; (5) existing transmission reservations, including
ATC	890	310	DEX Gen Plan and Contingency outages	MOD-001 R10	counterflows; (6) ATC recalculation frequency and times; and (7) source/sink modeling identification. The Commission concludes that the exchange of such data is necessary to support the reforms requiring consistency in the determination of ATC adopted in this Final
ATC	890	310	DEX Base dispatch	MOD-001 R10	Rule. As explained above, transmission providers are required to coordinate the calculation of TTC/TFC and ATC/AFC with others and this requires a standard means of exchanging
ATC	890	310	DEX existing reservations incl counterflows	MOD-001 R10	data.
ATC	890	310	DEX ATC recalc frequencies and times	MOD-001 R10	

Торіс	Order	Cite	Brief Description	Addressed By	Detailed Citation
ATC	890	310	DEX Source sink modeling identification	MOD-001 R10	
ATC	890	389	Unscheduled Reservation released on non-firm and posted on OASIS	Unscheduled service will be handled as a postback under the NAESB Business Practices.	We affirm our statement in the NOPR proposal acknowledging that transfer capability associated with transmission reservations that are not scheduled in real time is required to be made available as non-firm, and posted on OASIS.
ATC	693	782	Criteria used to calculate transfer capabilities for use in determining ATC must be identical to those used in planning and operating the system.	MOD-001 R8	Although we are not proposing to approve or remand this proposed Reliability Standard, the Commission believes that it can be improved. The Commission believes that the process used to determine transfer capabilities should be transparent to the stakeholders, and agrees with International Transmission and MidAmerican that the results of those calculations should not be available for public disclosure but only for qualified entities on a confidential basis. In addition, the process and criteria used to determine transfer capabilities must be consistent with the process and criteria used for other users of the Bulk-Power System. Simply stated, the criteria used to calculate transfer capabilities for use in determining ATC must be identical to those used in planning and operating the system. The Commission directs the ERO to take this into account in its Reliability Standards development process, and to modify the Reliability Standard consistent with Order No. 890 in Docket No. RM05-25-000.
ATC	693	1050	TTC be addressed under the Reliability Standard that deals with transfer capability such as FAC- 012-1, rather than MOD- 001-0.	Not addressed. The team believes that structuring TTC to be within each of the three methodologies is more appropriate.	We adopt the NOPR proposal and require that TTC be addressed under the Reliability Standard that deals with transfer capability such as FAC-012-1, rather than MOD-001-0. The FAC series of standards contain the Reliability Standards that form the technical and procedural basis for calculating transfer capabilities. FAC-008-1 provides the basis for determining the thermal ratings of facilities while FAC-009-1 provides the basis for communicating those ratings. FAC-010-1 and FAC-011-1 provide the system operating limits methodologies for the planning and operational horizon respectively and FAC-014 provides for the communication of those ratings.
ATC	693	1051	Modify FAC-012-1 and any other appropriate Reliability Standards to assure consistency in the determination of TTC/TFC for services provided under the pro forma OATT	Not addressed. The team believes that structuring TTC to be within each of the three methodologies is more appropriate.	The Commission directs the ERO, through the Reliability Standards development process, to modify FAC-012-1 and any other appropriate Reliability Standards to assure consistency in the determination of TTC/TFC for services provided under the pro forma OATT, and requires that those processes be the same as those used in operation and planning for native load and reliability assessment studies. Changes to the process of calculating TTC are appropriate if implementation is coordinated with revisions to the other applicable operating or planning standards. We acknowledge that reliability regions have historically calculated transfer capability using different approaches, and we agree that regional differences should be respected. However, as already discussed above regarding ATC, TTC requirements will be determined in the ERO Reliability Standards must take place through the ERO process.
ATC	693	1057	Develop non-fill-in-the- blank Standard	We have attempted to do this.	Accordingly, the Commission neither accepts nor remands MOD-001-0 until the ERO submits additional information. Although the Commission does not propose any action with

Торіс	Order	Cite	Brief Description	Addressed By	Detailed Citation
ATC ATC	693 693	1057	Define information to be shared between TSPs for ATC calculations Planning Assumptions and ATC Assumptions should be the same	MOD-001 R10 MOD-001 R8	regard to MOD-001-0, we address above a number of concerns regarding the Reliability Standard, consistent with those set forth in Order No. 890. We direct the ERO to develop modifications to the Reliability Standard through the Reliability Standards development process that: (1) provide a framework for ATC, TTC and ETC calculation, developing industry-wide consistency of all ATC components; (2) require disclosure of algorithms, for both firm and non-firm ATC and processes used in the ATC calculation; (3) identify a detailed list of information to be exchanged among transmission providers for the purposes
ATC	693	1057	ATC should be updated on a consistent schedule	MOD-001 R9	of ATC modeling; (4) include a requirement that the assumptions used in ATC and AFC calculations should be consistent with those used for planning the expansion or operation of the Bulk-Power System to the maximum extent practicable; (5) include a requirement that
ATC	693	1057	ATC/TTC Assumptions and Contingencies must be made available	MOD-001 R3, R10 Not addressed. The team believes that structuring TTC to be within each of the three methodologies is	ATC be updated by all transmission providers on a consistent time interval; (6) include a requirement that applicable entities make available assumptions and contingencies underlying ATC and TTC calculations; (7) address only ATC/AFC while TTC/TFC should be addressed under transfer capability standards such as FAC-012-1 and (8) identify the applicable entities in terms of users, owners and operators of the Bulk-Power System.
ATC	693	1057	Put TTC in FAC section	more appropriate.	
ATC	693	1057	Identify applicable entities	We have done so.	
ATC	693	1105	CBM must be 0 in non-firm ATC	MOD-028 R12 MOD-029 R8 MOD-030 R8	The Commission approves MOD-006-0 as mandatory and enforceable. In addition, the Commission directs the ERO to develop a modification to Reliability Standard MOD-006-0 through the Reliability Standards development process that: (1) includes a provision that will ensure that CBM and TRM are not used for the same purpose; (2) provides that CBM should be used for emergency generation deficiencies; (3) modifies Requirement R1.2 to define "generation deficiency" based on a specific energy emergency alert level; (4) includes a provision that CBM should have a zero value in the calculation of non-firm ATC and (5) expands the applicability section to include the entities that actually use CBM, such as LSEs.
СВМ	890	257	Develop clear standards for how the CBM value shall be determined, allocated across transmission paths, and used.	MOD-004 R1, R3, R4, R9, R10	The Commission therefore adopts a combination of the NOPR options one and two, and declines to adopt option three. First, we require public utilities, working through NERC and NAESB, to develop clear standards for how the CBM value shall be determined, allocated across transmission paths, and used. We understand that NERC has already begun the process of modifying several of the CBM-related reliability standards and that the drafting process is a joint project with NAESB.
СВМ	890	259	CBM shall only used to allow LSE to meet its generation reliability criteria	MOD-004 R8	To ensure CBM is used for its intended purpose, CBM shall only be used to allow an LSE to meet its generation reliability criteria. Consistent with Duke's statement, we clarify that each LSE within a transmission provider's control area has the right to request the transmission provider to set aside transfer capability as CBM for the LSE to meet its historical, state, RTO, or regional generation reliability criteria requirement such as reserve margin, loss of load probability (LOLP), the loss of largest units, etc.

Order	Cite	Brief Description	Addressed By	Detailed Citation
890	260	Define flowgate/path allocation process for CBM	MOD-004 R4.1	We direct public utilities, working through NERC, to develop clear requirements for allocating CBM over transmission paths and flowgates. While we do not mandate a particular methodology for allocating CBM to paths and flowgates, one approach could be based on the location of the outside resources or spot market hubs that an LSE has historically relied on during emergencies resulting from an energy deficiency.
890	262	CBM Must be used only for generation deficiencies	MOD-004 R8, R10	Concerning TAPS' proposal to remove the reservation decision from the sole discretion of transmission providers, we determine that LSEs should be permitted to call for use of CBM, if they do so pursuant to conditions established in the reliability standards development process. We direct public utilities working through NERC to modify the CBM-related standards to specify the generation deficiency conditions during which an LSE will be allowed to use the transfer capability reserved as CBM. In addition, we direct that transmission set aside as CBM shall be zero in non-firm ATC calculations. Finally, we order public utilities to work with NAESB to develop an OASIS mechanism that will allow for auditing of CBM usage.
890	354	Commission requires transmission providers to make any transfer capability set aside for CBM but unused for such purpose available on a non-firm basis and to post	MOD-028 R12 MOD-029 R8 MOD-030 R8	The Commission adopts the CBM posting requirements proposed in the NOPR. In doing so, we amend our OASIS regulations to incorporate the directives established in the CBM Order. Accordingly, we require transmission providers to post (and update) the CBM amount for each path. In addition, the Commission requires transmission providers to make any transfer capability set aside for CBM but unused for such purpose available on a non-firm basis and to post this availability on OASIS. Furthermore, the Commission requires transmission providers to post (and update) the TRM values for the paths on which the transmission provider already posts ATC, TTC, and CBM.
890	358	yearly CBM studies	MOD-004 R3.1, R3.2, R4, R5	The Commission incorporates into its regulations the requirement in the CBM Order for a transmission provider to periodically reevaluate its transfer capability setaside for CBM. With respect to TAPS' concerns over the effort involved in the reevaluation process, we will require CBM studies to be performed at least every year. This requirement is consistent with the CBM Order, in which the Commission stated that the level of ATC set aside for CBM should be reevaluated periodically to take into account more certain information (such as assumptions that may not have, in fact, materialized). While changes requiring a reevaluation of CBM are longer-term in nature (e.g., installation of a new generator or a long-term outage), quarterly may be too frequent, though two years may be too long and may prevent a portion of the CBM setaside from being released as ATC. Moreover, annual reevaluation is consistent with the current NERC standard being developed in MOD-005. The requirement to evaluate CBM at least every year also is consistent with the CBM Order in that the CBM Order so as to make known the need for CBM and to post on OASIS their practices in this regard.
	<u>890</u> 890	890 260 890 262 890 354	890260Define flowgate/path allocation process for CBM890260CBM Must be used only for generation deficiencies890262CBM Must be used only for generation deficiencies890262Commission requires transmission providers to make any transfer capability set aside for CBM but unused for such purpose available on a non-firm basis and to post this availability on OASIS.890354this availability on OASIS.	890 260 Define flowgate/path allocation process for CBM MOD-004 R4.1   890 262 CBM Must be used only for generation deficiencies MOD-004 R8, R10   890 262 Commission requires transmission providers to make any transfer capability set aside for CBM but unused for such purpose available on a non-firm basis and to post this availability on OASIS. MOD-028 R12 MOD-029 R8 MOD-030 R8   890 354 this availability on OASIS. MOD-004 R3.1, R3.2, R4,

Торіс	Order	Cite	Brief Description	Addressed By	Detailed Citation
СВМ	693	1081	What to do if CBM exceeds ATC?	MOD-004 R4.2	We agree with TAPS that there is a need for clearer requirements in the standard regarding to whom and how to submit a request for CBM set-aside, and what the transmission service provider should do if the sum of all CBM requirements exceeds the amount of available transfer capability. We direct the ERO to address the reliability aspects in the Reliability Standards development process and explore with NAESB whether business practices would be required.
СВМ	693	1082	CBM set aside at verified request of LSE	MOD-004 R3, R4, R5	Accordingly, the Commission neither accepts nor remands MOD-004-0 until the ERO submits additional information. In the interim, compliance with MOD-004-0 should continue on a voluntary basis, and the Commission considers compliance with the Reliability
CBM	693	1082	Require disclosure of CBM studies	MOD-004 R3.1.2, R3.1.3, R3.1.4, R7	Standard to be a matter of good utility practice. Although the Commission did not propose any action with regard to MOD-004-0, it addressed above a number of concerns regarding the Reliability Standard, consistent with those set forth in Order No. 890. Therefore, we
CBM	693	1082	Define flowgate/path allocation process for CBM	MOD-001 R4.1	direct the ERO to develop modifications to the Reliability Standard through the Reliability Standards development process to: (1) clarify that CBM shall be set aside upon request of any LSE within a balancing area to meet its verifiable historical, state, RTO or regional
CBM	693	1082	No double counting	MOD-008 R2	generation reliability criteria; (2) develop requirements regarding transparency of the generation planning studies used to determine CBM value; (3) modify the current
СВМ	693	1082	Add LSE, BA as applicable entity where necessary	MOD-004 R3, R8, R9	Requirements to make clear the process for how CBM is allocated across transmission paths or flowgates; (3) modify its standard in order to prevent setting aside CBM and TRM for the same purposes; (4) modify the standard by adding LSE as an applicable entity and (5) coordinate with NAESB business practice standards.
СВМ	693	1105	CBM Must be used only for generation deficiencies	MOD-004 R8	The Commission approves MOD-006-0 as mandatory and enforceable. In addition, the Commission directs the ERO to develop a modification to Reliability Standard MOD-006-0 through the Reliability Standards development process that: (1) includes a provision that will
СВМ	693	1105	Generation Deficiency must be stated as an EEA level	MOD-004 R8	ensure that CBM and TRM are not used for the same purpose; (2) provides that CBM should be used for emergency generation deficiencies; (3) modifies Requirement R1.2 to define "generation deficiency" based on a specific energy emergency alert level; (4) includes a provision that CBM should have a zero value in the calculation of non-firm ATC and (5) expands the applicability section to include the entities that actually use CBM, such as LSEs.
TRM	890	273	Explicit definition of what goes into TRM	MOD-008 R1	The Commission also adopts the NOPR proposal to establish standards specifying the appropriate uses of TRM to guide NERC and NAESB in the drafting process. Transmission providers may set aside TRM for (1) load forecast and load distribution error, (2) variations
TRM	890	273	TRM = Load Forecast and Load Distribution Error	MOD-008 R1	in facility loadings, (3) uncertainty in transmission system topology, (4) loop flow impact, (5) variations in generation dispatch, (6) automatic sharing of reserves, and (7) other uncertainties as identified through the NERC reliability standards development process.
TRM	890	273	TRM = Variation in facility loading	MOD-008 R1	Because load, facility loading and other uncertainties constantly deviate, we will not require that TRM set aside capacity be set at zero in the non-firm ATC calculation. In other words,
TRM	890	273	TRM = uncertainty in tx topology	MOD-008 R1	we will not require transfer capability that is set aside as TRM to be sold on a non-firm basis. We find that clear specification in this Final Rule of the permitted purposes for which entities may reserve CBM and TRM will virtually eliminate double-counting of TRM and CBM.
TRM	890	273	TRM = loop flow	MOD-008 R1	
TRM	890	273	TRM = variations in dispatch	MOD-008 R1	

Торіс	Order	Cite	Brief Description	Addressed By	Detailed Citation
TRM	890	273	TRM = ARS	MOD-008 R1	
TRM	890	273	Define any additional uses	MOD-008 R1	
TRM	890	273	No double counting	MOD-008 R2	
TRM	890	275	Max TRM Calc	Not addressed. We have not been able to identify any maximum calculation that stands out as a leading example to be made into a standard. TRM is a risk management tool, and its calculation may be legitimately different for various systems, regions, and companies.	In addition, we direct public utilities, working through NERC, to establish an appropriate maximum TRM. One acceptable method may be to use a percentage of ratings reduction, i.e., model the system assuming all facility ratings are reduced by a specific percentage. This is a relatively simple method and, if adopted as the reliability standard's method, should not restrict a transmission provider from using a more sophisticated method that may allow for greater ATC without reducing overall reliability.
TRM	693	1082	No double counting	MOD-008 R2	Accordingly, the Commission neither accepts nor remands MOD-004-0 until the ERO submits additional information. In the interim, compliance with MOD-004-0 should continue on a voluntary basis, and the Commission considers compliance with the Reliability Standard to be a matter of good utility practice. Although the Commission did not propose any action with regard to MOD-004-0, it addressed above a number of concerns regarding the Reliability Standard, consistent with those set forth in Order No. 890. Therefore, we direct the ERO to develop modifications to the Reliability Standard through the Reliability Standards development process to: (1) clarify that CBM shall be set aside upon request of any LSE within a balancing area to meet its verifiable historical, state, RTO or regional generation reliability criteria; (2) develop requirements regarding transparency of the generation planning studies used to determine CBM value; (3) modify the current Requirements to make clear the process for how CBM is allocated across transmission paths or flowgates; (3) modify its standard in order to prevent setting aside CBM and TRM for the same purposes; (4) modify the standard by adding LSE as an applicable entity and (5) coordinate with NAESB business practice standards.
	093	1002	· · ·		Consistent with the NOPR proposal and Order No. 890, the Commission directs the ERO to
TRM	693	1122	Define flowgate/path allocation process for TRM	MOD-008 R1.3	modify standard MOD-008-0 to clarify how TRM should be calculated and allocated across paths or flowgates. We understand that the standards drafting process is underway as a
TRM	693	1122	TRM = Load Forecast and Load Distribution Error	MOD-008 R1	joint project with NAESB. We agree with International Transmission, MidAmerican and MISO about the need for more uniformity and transparency in TRM calculation methodology and use, in order to eliminate potential reliability and discrimination concerns. Consistent
TRM	693	1122	TRM = Variation in facility loading	MOD-008 R1	with Order No. 890, the Commission directs the ERO to specify the parameters for entities to use in determining uncertainties for which TRM can be set aside and used, such as: (1)
			TRM = uncertainty in		load forecast and load distribution error; (2) variations in facility loadings; (3) uncertainty in transmission system topology; (4) loop flow impact; (5) variations in generation dispatch; (6)
TRM	693	1122	transmission topology	MOD-008 R1	automatic reserve sharing and (7) other uncertainties as identified through the NERC
TRM	693	1122	TRM = loop flow	MOD-008 R1	Reliability Standards development process. We find that clear specification in this Final Rule

Торіс	Order	Cite	Brief Description	Addressed By	Detailed Citation
TRM TRM	693 693	1122 1122	TRM = variations in dispatch TRM = ARS	MOD-008 R1 MOD-008 R1	of the permitted purposes for which entities may reserve CBM and TRM will also virtually eliminate double-counting of TRM and CBM. Therefore, we direct the ERO to determine clear requirements regarding permitted uses for TRM through its Reliability Standards development process.
TRM	693	1122	Define any additional uses	MOD-008 R1	
TRM	693	1126	Explicit definition of what goes into TRM	MOD-008 R1	
				Not addressed. We have not been able to identify any maximum calculation that stands out as a leading example to be made into a standard. TRM is a risk management tool, and its calculation may be legitimately different for various systems, regions, and	The Commission neither accepts nor remands MOD-008-0 until the ERO submits additional information. In the interim, compliance with MOD-008-0 should continue on a voluntary basis, and the Commission considers compliance with the Reliability Standard to be a matter of good utility practice. Although the Commission did not propose any action with regard to MOD-008-0, it addressed above a number of concerns regarding the Reliability
TRM	693	1126	Max TRM Calc	companies. Not addressed. We have not been able to identify any single methodology that stands out as a leading example to be made into a standard. TRM is a risk management tool, and its calculation may be legitimately different for various	Standard, consistent with those proposed in Order No. 890. Accordingly, we direct the ERO to develop modifications to the Reliability Standard through the Reliability Standards development process including: (1) clear requirements on how TRM should be calculated, including a methodology for determining the maximum TRM value, and allocated across paths; (2) clear requirements for permitted purposes for which TRM can be set aside and used; (3) clear requirements for availability of documentation that supports TRM determination and (4) expanding the applicability to add planning authorities and reliability coordinators and any other appropriate entity identified in the Reliability Standards development process.
TRM	693	1126	Standard on How TRM to be calculated	systems, regions, and companies.	
	030	1120	Add PC, RE to applicable	Not addressed. We do not find that these entities need to be added to the	
TRM	693	1126	entities	TRM standard.	