

Use Case – Create CRR Model COWM.P05ConductCRRMarket_UC_CreateCRRModel_V0.4

Name: Create the Congestion Revenue Rights Model

Summary:

Create the Congestion Revenue Rights Model using the NMMS software and the selected NOMCRs, PMCRs and Outages as required. SAMRs will also be selected and included in the model package. The output is a RAWD file. The CRR Contingency File and the CRR Settlement File should also be packaged and sent with this model if required.

Acronyms:

ERCOT	Electric Reliability Council of Texas
CRRS	Congestion Revenue Rights System
MP	Market Participant
NMMS	Network Model Management System
NOMCR	Network Operations Model Change Request (AKA: Project Files)
MC	ERCOT Model Coordinator
SAMR	Special Action Model Request
TSP	Transmission Service Provider
CU	CRRS User

Actor(s):

Name	Role description
CU at ERCOT	Selects the Approved and Scheduled NOMCRs and SAMRs to be included in the CRR Model build.
CU at ERCOT	Select the Temperature for the Dynamic Rating processing
CU at ERCOT	Select the Outages to be included in the CRR Model
CU at ERCOT	Select the Approved PMCRs to be included in the CRR Model

Participating Systems:

System	Services or information provided
Congestion Revenue Rights System (CRRS)	Receives the Model after the Case Builder completes the CRR Model build
NMMS at ERCOT	The CU uses the Case Builder within the NMMS to build the CRR Model using the selected NOMCRs, SAMRS, Outages, Temperature, and PMCRs. The CRR Model is generated as a RAWD file.

Pre-conditions:

NONE

Design Considerations:

- None

Known assumptions, limitations, constraints, or variations that may affect this use case:

- The CRR Model will be generated each month 45 days prior to the proposed auction month
- The NOMCRs, SAMRs, Outages, PMCRs and Dynamic Ratings that will be applied include those up to and including the first day of the proposed auction month.
- The CRR User will create this model using the Case Builder.
- Topology Processing must be executed prior to inserting the PMCRs into the Model.

Normal Sequence:

Use Case Step	Description	From - To	Information Content
Step 1	Based on inputs from the CU, the NMMS software inserts the selected NOMCRs into the Network Operations Model	(from) NMMS to (to) NMMS	
Step 2	Based on inputs from the CU, the NMMS software selects the SAMRs that will be included in the model package	(from) NMMS to (to) NMMS	
Step 3	Based on inputs from the CU, the NMMS software inserts the selected Outages into the Network Operations Model	(from) NMMS to (to) NMMS	
Step 4	Based on inputs from the CU, the NMMS software inserts the Dynamic Ratings for the equipment based on the entered temperature into the Network Operations Model	(from) NMMS to (to) NMMS	
Step 5	Based on inputs from the CU, the NMMS software inserts the selection of PMCRs into the Network Operations Model. The selected PMCRs are inserted after Topology Processing is executed.	(from) NMMS to (to) NMMS	
Step 6	NMMS software creates the Bus Branch model and creates a RAWD file which is sent to the CRRS	(from) NMMS to (to) CRRS	The data is in the RAWD format and should include all NOMCRs, PMCRs, SAMRs and Outages.

Exceptions / Alternate Sequences:

NONE

Post-conditions:

NONE

References:

Use Cases referenced by this use case, or other documentation that clarifies the requirements or activities described.

- COWM.P05.ConductCRRMarket_UC_CreateSettlementFile
- COWM.P05.ConductCRRMarket_UC_CreateContingencyFiles
- COPS.P01ModelManageData_UseCase_ProcessSAMR

The following Standards and other documents are referenced by this case:

- ERCOT Nodal Protocols
- ERCOT NMMS Requirements

Issues:

ID	Description	Status
1.		

Revision History:

No	Date	Author	Description
0		J. Winkel	Initial Version
1	8/26/06	M. Goodrich	Reviewed and Revised
2	9/10/06	M. Goodrich	Added Comments from Crews and Moseley
3	9/12/06	M. Goodrich	Added edits from NMG