Contrast & Compare Planning Process NCStakeholders - PWG

			CALENDAR		
		Duke		Progress	Comments
Planning Calendar					
Modeling/ Assessment/ Solutions/ Budget	Dec-Jan:	Finalize models	Dec-Jan:	Finalize models	
	Feb-Mar:	Perform screen	Feb-Mar:	Perform Near-term(NT) project review	
	Apr-Jun:	Develop solutions	Apr-Jun: Jul-Aug:	Prioritize projects & submit budget Perform Long-term(LT) screen	
	Jul-Aug:	Prioritize projects & develop budget	Sep-Nov:	Develop solutions	
	September:	Finalize budget	Oct-Nov:	Compile input data & develop models	
	Oct-Nov:	Compile input data & develop models	Oct-Mar: Dec:	Develope estimates for LT projects Budget approved - plan released	

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CASE DEVELOPMENT							
	Duke	Progress	Comments				
Reduced External Area							
Database cycle	January to June (VSTE Data Bank Process) Companies within VSTE combine new reduced models of their areas coordinating data within VSTE areas. June to December (MMWG Process) Regions combine reduced models of their areas to develop an eastern interconnection model. SERC provides the VSTE Data Bank Cases to the MMWG	January to June (VSTE Data Bank Process) Companies within VSTE combine new reduced models of their areas coordinating data within VSTE areas. June to December (MMWG Process) Regions combine reduced models of their areas to develop an eastern interconnection model. SERC provides the VSTE Data Bank Cases to the MMWG					
	for this effort. Data is coordinated among regions. Model long-term firm transmission in model. No partial path reservations modeled.	for this effort. Data is coordinated among regions. Model long-term firm transmission in model. No partial path reservations modeled.					
Detailed Internal Model	("on-the-shelf cases")						
Cases developed	Summer Peak (for current and next 10 years) Winter Peak (for current and next 10 years) Fall Peak(for current and next 2 years) Spring Valley (for current and next 3 years)	Summer Peak (for current and next 10 years) Winter Peak (for current and next 10 years)					
Loads	Loads plus losses at the transmissin level will be scaled to match the system forecast for each load level. If conditions warrant, additional cases may be generated to examine the impact of other load levels.	Corporate provides PEC East & West load forecast data. Distribution organization provides NCPs for all PEC substations for model. Obtains Network Customer's forecasts via Network Operating Agreement. Scales PEC area to meet annual forecast without scaling Network Customer data.					
Interchange		Models all firm transmission reservations on its OASIS including partial path reservations. Model imports and exports . (i.e net interchange)					
	Modeled in detail. Dispatched economically .	Modeled in detail. Dispatched economically .					
Non-Duke/PEC Generation	Modeled in detail. Dispatched at full load. IPPs must have an LGIA executed to be in model and approved transmission service to be dispatched.	Modeled in detail. Dispatched at full load. IPPs must have an LGIA executed to be in model and approved transmission service to be dispatched.					
Future Generation	Uses dummy generation in future cases only when additional load serving resources are needed. Models based on generator interconnection queue locations.	Uses dummy generation in future cases only when additional load serving resources are needed. Typically puts on Wake 500 kV bus and named DUMGEN so others that use the case can see its presence.					
Ratings	Use several different continuous and time-limited emergency line ratings. Some transformer ratings based on special loss of life studies.	Lines modeld at continuous rating unless ground clearence limited. Utilize most limiting facility criteria. Transformers modeled at 55 deg rise rating.					

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ASSESSMENT PRACTICES							
	Duke	Progress	Comments				
Limits Voltage							
500kV 230kV Allowed	Maintain minimum of 100% Maintain minimum of 95%	Maintain minimum of 100% Maintain minimum of 90%					
Contingency Drop	5%	8%					
Limits Thermal							
Lines	Do not exceed 100 % .	Do not exceed 100 %. Do not exceed 100 % unless 65 degree rise rating is available. Will allow 109% loading if a 65 degree rise rating is available and the bank is in					
Transformers Equipment	Manufacture rating.	good condition. Manufacture rating.					
Cases Developed							
Years	Screen 3 years out Assess projects. Generation up case	Screen 6 years out Assess projects.					
	Generator maintenance case.	Generation Up case.					
Cases Dispatch	Generator maintenance + Generator outage cases. Generator maintenance case is redispatched economically. Generator outages replaced using off system import of TRM from interfaces.	Generator outage cases. Generation Up case is dispatched economically. Generator outages replaced using off system import of TRM from interfaces.					
Interchange	Imports are divided equally among the 6 interfaces.	Imports are divided proportionally by TRM ratios. Reserves approximatley 1820 MW. PEC interconnects with all VACAR utilities and studies the import of the full					
TRM CBM	none reserved	reserved amount on top of other import obgliations. none reserved					
NERC Table I							
Cat A	Generation up	Generation up					
	Gm + generator outage with TRM						
	Gm + line outage Gm + transformer outage	Generation up + line outage					
Cat B	Gm + capacitor outage	Generator outage with TRM					
		Generation up + common tower outages Generator outage with TRM + line or transformer outage					
Cat C		Generator outage with TRM + common tower line outages					
Cat D	Coordinated region studies choose scenarios.	Coordinated region studies choose scenarios.					