PROJECT DEVELOPMENT AREA		
Title: Reference Grids TE Scenarios "Well Posed Problems"	 Brief Description: Write 2-3 sentences/bullets to describe the project development area and the necessary partnerships Topologies Identities and capacities of elements Keep it simple from beginning One complexity at a time 	Challenges: Identify the anticipated challenges for creating a workable demonstration or testbed for the concept Utility distribution engineering input Is PNNL already doing this?
PROJECT APPROACH		
 Major Tasks: Describe a possible approach to developing the project, including 3-5 major tasks Interconversion of data from standard library to a form usable by the model IEEE test cases (transmission/distribution) Polish grid Define actors (+TE Actors) Challenges built on top of a baseline (Do it first) Define minimum description for credible analysis/simulation 	Major Milestones with dates: Define 3-5 milestones that can be used to measure progress (what markers can we use to measure and assess progress in development?) Initial set of base cases ID's Topologies Base cases populated Base cases populated and structured	Performance Targets: Identify 1-5 (quantitative) performance targets that define a successful outcome (what does success look like?) Limits: What parameters should be used to define the realistic limits to use of the system/platform Use of scenarios by researchers Use of scenarios by solutions providers Use of scenarios by utilities
PROJECT IMPACTS and DEMONSTRA	TION	
Impacts: Describe the anticipated economic benefits (new products, jobs, economic growth, exports, tax base, etc.) as well as impacts on energy, health, safety, environment, and other quality of life aspects • Sequence of problems • Validation tests (inputs for) • Credibility tool for models	Demonstration vehicle: Describe how you might demonstrate the project concept (physical or virtual) • Successful execution on multiple platforms Status of Commitment: Please advise on the current status of the CPS idea detailed on this worksheet (underline/circle one): Launched Ready for Public Announcement	 Team Lead: Neutral standards based party, who could validate the output Participants and Roles: Warren Wang, Navigant; Khaled Masri, NEMA; Steven Ray, CMU; Jason Veneman, MITRE; Alex Brissette, ABB Additional Notes: Team would jointly accomplish milestones of what are the cases, what is the data, and how should it be structured

IN DELIBERATIONS / NEGOTIATIONS – Based on

CONCEPT ONLY STAGE / NO PARTNERS YET -

PNNL Status

Based on PNNL Status