

From: Brooks, Donald J.

Sent: 11/25/2013 4:22:58 PM

clamasbabbini@comverge.com (clamasbabbini@comverge.com);
sue.mara@RTOadvisors.com (sue.mara@RTOadvisors.com);
dweisz@marinenergy.com (dweisz@marinenergy.com);
blyons@TigerNaturalGas.com (blyons@TigerNaturalGas.com);
jleslie@mckennalong.com (jleslie@mckennalong.com); sahm@clean-coalition.org
(sahm@clean-coalition.org); proceedings@psrec.coop (proceedings@psrec.coop);
rick_noger@praxair.com (rick_noger@praxair.com); douglass@energyattorney.com
(douglass@energyattorney.com); igoodman@commerceenergy.com
(igoodman@commerceenergy.com); Andrew.Luszcz@GlacialEnergy.com
(Andrew.Luszcz@GlacialEnergy.com); Joni.Templeton@sce.com
(Joni.Templeton@sce.com); rkmoore@gswater.com (rkmoore@gswater.com);
APak@SempraUtilities.com (APak@SempraUtilities.com);
kevin.boudreaux@calpine.com (kevin.boudreaux@calpine.com);
energy@3phasesrenewables.com (energy@3phasesrenewables.com);
abraham.silverman@nrgenergy.com (abraham.silverman@nrgenergy.com);
nguyen.quan@gswater.com (nguyen.quan@gswater.com);
kimjohnson@ebarton.com (kimjohnson@ebarton.com);
awilliams@libertypowercorp.com (awilliams@libertypowercorp.com);
Joseph.williams@cwt.com (Joseph.williams@cwt.com);
To: mryan@montaukenergy.com (mryan@montaukenergy.com); hbehtel@ormat.com
(hbehtel@ormat.com); Cherry, Brian K
(/O=PG&E/OU=CORPORATE/CN=RECIPIENTS/CN=BKC7); ssmyers@att.net
(ssmyers@att.net); nes@a-klaw.com (nes@a-klaw.com); jeanne.sole@sfgov.org
(jeanne.sole@sfgov.org); mgo@goodinmacbride.com (mgo@goodinmacbride.com);
mpa@a-klaw.com (mpa@a-klaw.com); hayley@turn.org (hayley@turn.org);
mtierney-lloyd@enernoc.com (mtierney-lloyd@enernoc.com);
liddell@energyattorney.com (liddell@energyattorney.com);
bcragg@goodinmacbride.com (bcragg@goodinmacbride.com);
tdarton@pilotpowergroup.com (tdarton@pilotpowergroup.com);
thomaspcorr@gmail.com (thomaspcorr@gmail.com); cmkehrin@ems-ca.com
(cmkehrin@ems-ca.com); GloriaB@anzaelectric.org (GloriaB@anzaelectric.org);
rl@eslawfirm.com (rl@eslawfirm.com); andrea.morrison@directenergy.com
(andrea.morrison@directenergy.com); abb@eslawfirm.com (abb@eslawfirm.com);
jeffgray@dwt.com (jeffgray@dwt.com); Patrick.VanBeek@CommercialEnergy.net
(Patrick.VanBeek@CommercialEnergy.net); tomb@crossborderenergy.com
(tomb@crossborderenergy.com); dorth@krcd.org (dorth@krcd.org);
lcottle@winston.com (lcottle@winston.com); mday@goodinmacbride.com
(mday@goodinmacbride.com); Miley, Matt (matt.miley@cpuc.ca.gov);
martin.kadillak@shell.com (martin.kadillak@shell.com); aivancovich@caiso.com
(aivancovich@caiso.com); cpuc@primuspower.com (cpuc@primuspower.com);
stephen.t.greenleaf@jpmorgan.com (stephen.t.greenleaf@jpmorgan.com);
matt.vespa@SierraClub.org (matt.vespa@SierraClub.org); b.bordine@d-e-c-a.org
(b.bordine@d-e-c-a.org); dschlosberg@brightsourceenergy.com

(dschlosberg@brightsourceenergy.com); Lynch, Mary
(Mary.Lynch@constellation.com) (Mary.Lynch@constellation.com);
RegRelCPUCCases
(/O=PG&E/OU=Corporate/cn=Recipients/cn=RegRelCPUCCases);
david@nemtow.com (david@nemtow.com); mrw@mrwassoc.com
(mrw@mrwassoc.com); wyne@braunlegal.com (wyne@braunlegal.com);
DWTCPUCDOCKETS@dwt.com (DWTCPUCDOCKETS@dwt.com);
igoodman@commerceenergy.com (igoodman@commerceenergy.com);
blaising@braunlegal.com (blaising@braunlegal.com); lwisland@ucsusa.org
(lwisland@ucsusa.org); Zahariudakis, George
(/O=PG&E/OU=Corporate/cn=Recipients/cn=GxZ5); klatt@energyattorney.com
(klatt@energyattorney.com); nrader@calwea.org (nrader@calwea.org);
davidmorse9@gmail.com (davidmorse9@gmail.com);
californiadockets@pacificorp.com (californiadockets@pacificorp.com);
cpacc@calpine.com (cpacc@calpine.com); kdw@woodruff-expert-services.com
(kdw@woodruff-expert-services.com); ddavie@wellhead.com
(ddavie@wellhead.com); brian.theaker@nrgenergy.com
(brian.theaker@nrgenergy.com); peter.pearson@bves.com
(peter.pearson@bves.com); julien.dumoulin-smith@ubs.com (julien.dumoulin-
smith@ubs.com); smaye@nappartners.com (smaye@nappartners.com);
dansvec@hdo.net (dansvec@hdo.net); mcrane@bluestarenergy.com
(mcrane@bluestarenergy.com); NILEN@vestas.com (NILEN@vestas.com);
smartinez@nrdc.org (smartinez@nrdc.org); jason.lewis@jpmorgan.com
(jason.lewis@jpmorgan.com); Rachel@largescalesolar.org
(Rachel@largescalesolar.org); mstamas@nrdc.org (mstamas@nrdc.org);
barbara@barkovichandyap.com (barbara@barkovichandyap.com);
braun@braunlegal.com (braun@braunlegal.com); whitney@clean-coalition.org
(whitney@clean-coalition.org); virinder.singh@edf-re.com (virinder.singh@edf-
re.com); Steph@Clean-Coalition.org (Steph@Clean-Coalition.org);
AKaplan@BrownRudnick.com (AKaplan@BrownRudnick.com); SZuretti@seia.org
(SZuretti@seia.org); NODonovan@LREnergy.com (NODonovan@LREnergy.com);
margaret.miller@brookfieldrenewable.com
(margaret.miller@brookfieldrenewable.com); Berlinski@BeaconPower.com
(Berlinski@BeaconPower.com); Wetstone, Brad
(/O=PG&E/OU=Corporate/cn=Recipients/cn=B1WA); sswaroop@marinenergy.com
(sswaroop@marinenergy.com); dyana@clean-coalition.org (dyana@clean-
coalition.org); JWaen@MarinEnergy.com (JWaen@MarinEnergy.com);
ygomez@libertypowercorp.com (ygomez@libertypowercorp.com);
Marty.Rogers@nee.com (Marty.Rogers@nee.com); winton.kelly@nee.com
(winton.kelly@nee.com); pramod@ces-ltd.com (pramod@ces-ltd.com);
mcmahon.rachel@gmail.com (mcmahon.rachel@gmail.com);
michael.evans@shell.com (michael.evans@shell.com); ariel.lin@sce.com
(ariel.lin@sce.com); Mobasheri@ElectricPowerGroup.com
(Mobasheri@ElectricPowerGroup.com); Susan.E.Smith@shell.com
(Susan.E.Smith@shell.com); justin.boone@sce.com (justin.boone@sce.com);
mburrows@3phasesRenewables.com (mburrows@3phasesRenewables.com);

jay.robertson@directenergy.com (jay.robertson@directenergy.com);
ekelly@marinenergyauthority.org (ekelly@marinenergyauthority.org);
rfagan@synapse-energy.com (rfagan@synapse-energy.com);
Tex.Wilkins@gmail.com (Tex.Wilkins@gmail.com); David.Weidberg@jci.com
(David.Weidberg@jci.com); hudsonr@conedsolutions.com
(hudsonr@conedsolutions.com); amanda.bergfield@directenergy.com
(amanda.bergfield@directenergy.com); MJacobs@ucsusa.org
(MJacobs@ucsusa.org); Matthew Barmack (Matthew.Barmack@calpine.com)
(Matthew.Barmack@calpine.com); Robin.Smutny-Jones@IberdrolaRen.com
(Robin.Smutny-Jones@IberdrolaRen.com); Jennifer Chamberlin
(jenchamberlin@earthlink.net) (jenchamberlin@earthlink.net); tam@clean-
coalition.org (tam@clean-coalition.org); tlong@turn.org (tlong@turn.org); Peck,
David B. (david.peck@cpuc.ca.gov); kmills@cxbf.com (kmills@cxbf.com);
filings@a-klaw.com (filings@a-klaw.com); CentralFiles@SempraUtilities.com
(CentralFiles@SempraUtilities.com); Gamson, David M.
(david.gamson@cpuc.ca.gov); cem@newsdata.com (cem@newsdata.com);
case.admin@sce.com (case.admin@sce.com); william.sanders@sfgov.org
(william.sanders@sfgov.org); e-recipient@caiso.com (e-recipient@caiso.com);
Middlekauff, Charles (Law) (/O=PG&E/OU=Corporate/cn=Recipients/cn=CRMd);
Gonzales, Matthew (/O=PG&E/OU=Corporate/cn=Recipients/cn=MRGg); Chow,
Lily (lily.chow@cpuc.ca.gov); gmorris@emf.net (gmorris@emf.net); Ouyang, Ke
Hao (kehao.ouyang@cpuc.ca.gov); Lee, Rebecca Tsai-Wei
(rebecca.lee@cpuc.ca.gov); Huffman, Mark (Law)
(/O=PG&E/OU=Corporate/cn=Recipients/cn=MRH2); abb@eslawfirm.com
(abb@eslawfirm.com); jjg@eslawfirm.com (jjg@eslawfirm.com); Spencer, Peter
(peter.spencer@cpuc.ca.gov); Lukins, Chloe (chloe.lukins@cpuc.ca.gov);
Lakhchaura, Megha (megha.lakhchaura@cpuc.ca.gov); Douglas, Paul
(paul.douglas@cpuc.ca.gov); gbass@noblesolutions.com
(gbass@noblesolutions.com); eddyconsulting@gmail.com
(eddyconsulting@gmail.com); Fitch, Julie A. (julie.fitch@cpuc.ca.gov);
spauker@wsgr.com (spauker@wsgr.com); dgrandy@caonsitegen.com
(dgrandy@caonsitegen.com); atrowbridge@daycartermurphy.com
(atrowbridge@daycartermurphy.com); dws@r-c-s-inc.com (dws@r-c-s-inc.com);
jna@speakeasy.org (jna@speakeasy.org); Kamins, Sara M.
(sara.kamins@cpuc.ca.gov); pmaxwell@navigantconsulting.com
(pmaxwell@navigantconsulting.com); danielle@ceert.org (danielle@ceert.org);
JChamberlin@LSPower.com (JChamberlin@LSPower.com);
mary.wiencke@pacificorp.com (mary.wiencke@pacificorp.com);
jwoodwar@energy.state.ca.us (jwoodwar@energy.state.ca.us);
tsolomon@winston.com (tsolomon@winston.com); VidhyaPrabhakaran@dwt.com
(VidhyaPrabhakaran@dwt.com); Colvin, Michael (michael.colvin@cpuc.ca.gov);
Franz, Damon A. (damon.franz@cpuc.ca.gov); bburns@caiso.com
(bburns@caiso.com); smatlock@gswater.com (smatlock@gswater.com);
RNicholson@SempraUtilities.com (RNicholson@SempraUtilities.com);
david@ceert.org (david@ceert.org); cathompson@anaheim.net
(cathompson@anaheim.net); Brooks, Donald J. (donald.brooks@cpuc.ca.gov);

Lasko, Yakov (yakov.lasko@cpuc.ca.gov); NTang@SempraUtilities.com (NTang@SempraUtilities.com); wrostov@earthjustice.org (wrostov@earthjustice.org); Jarman, Thomas A (/O=PG&E/OU=Corporate/cn=Recipients/cn=TAJ8); AGarza-Beutz@semprautilities.com (AGarza-Beutz@semprautilities.com); philm@scdenergy.com (philm@scdenergy.com); Dorman, Elizabeth (elizabeth.dorman@cpuc.ca.gov); Joseph.Phalen@bves.com (Joseph.Phalen@bves.com); kgillick@sflower.org (kgillick@sflower.org); deb@aklaw.com (deb@aklaw.com); brflynn@flynnrci.com (brflynn@flynnrci.com); dennis@ddecuir.com (dennis@ddecuir.com); TLindl@kfwlaw.com (TLindl@kfwlaw.com); O'Donnell, Arthur J. (Arthur.O'Donnell@cpuc.ca.gov); Inavarro@edf.org (Inavarro@edf.org); 1040@pacbell.net (1040@pacbell.net); nicole@braunlegal.com (nicole@braunlegal.com); sean.beatty@nrgenergy.com (sean.beatty@nrgenergy.com); Kito, Michele (michele.kito@cpuc.ca.gov); jleesq@yahoo.com (jleesq@yahoo.com); kfox@kfwlaw.com (kfox@kfwlaw.com); kerry.hattevik@nee.com (kerry.hattevik@nee.com); jderosa@ces-ltd.com (jderosa@ces-ltd.com); rshilling@krcd.org (rshilling@krcd.org); berlin@susieberlinlaw.com (berlin@susieberlinlaw.com); Chaset, Nicolas L. (nicolas.chaset@cpuc.ca.gov); Stevens, Brian (brian.stevens@cpuc.ca.gov); willem.fadrhonc@stem.com (willem.fadrhonc@stem.com); Smith, Christopher (/O=PG&E/OU=Corporate/cn=Recipients/cn=C5SE); sarah.keane@bingham.com (sarah.keane@bingham.com); Wecker, Alan (Alan.Wecker@cpuc.ca.gov); dan.patry@recurrentenergy.com (dan.patry@recurrentenergy.com); JFriderichs@pilotpowergroup.com (JFriderichs@pilotpowergroup.com); sbailey@semprausgp.com (sbailey@semprausgp.com); shaun.logue@brookfieldrenewable.com (shaun.logue@brookfieldrenewable.com); irene@igc.org (irene@igc.org); ericg@votesolar.org (ericg@votesolar.org); TCSaile@SempraUtilities.com (TCSaile@SempraUtilities.com); Greenacre, Wade (/O=PG&E/OU=Corporate/cn=Recipients/cn=WAG9); Gupta, Alope (aloke.gupta@cpuc.ca.gov); STomec@CapitalPower.com (STomec@CapitalPower.com); tandymcmannes@solar.abengoa.com (tandy.mcmannes@solar.abengoa.com); mike.jaske@energy.state.ca.us (mike.jaske@energy.state.ca.us); dhou@caiso.com (dhou@caiso.com); bcooper@caiso.com (bcooper@caiso.com); jhcaldwelljr@gmail.com (jhcaldwelljr@gmail.com); Rich.Quattrini@jci.com (Rich.Quattrini@jci.com); keene@braunlegal.com (keene@braunlegal.com); jgoodin@caiso.com (jgoodin@caiso.com); john@dmcadvisors.com (john@dmcadvisors.com); Tracey.Drabant@bves.com (Tracey.Drabant@bves.com); jenniferchamberlin@gmail.com (jenniferchamberlin@gmail.com); jbaak@votesolar.org (jbaak@votesolar.org); gkatta@caiso.com (gkatta@caiso.com); onmyers@gmail.com (onmyers@gmail.com); cara.goldenberg@grueneich.com (cara.goldenberg@grueneich.com); scott.dayer@ge.com (scott.dayer@ge.com); Taber@PrincetonEnergy.net (Taber@PrincetonEnergy.net); cpuc-r1110023@olivineinc.com (cpuc-r1110023@olivineinc.com); Li, Xian M. (Xian.Li@cpuc.ca.gov); Gannon, Jaime Rose (JaimeRose.Gannon@cpuc.ca.gov); Meeusen, Karl (kmeeusen@caiso.com)

(kmeeusen@caiso.com); Charkowicz, Ed (ed.charkowicz@cpuc.ca.gov); Liang-Uejio, Scarlett (scarlett.liang-uejio@cpuc.ca.gov); Gubman, Joanna (Joanna.Gubman@cpuc.ca.gov); ktreleven@gmail.com (ktreleven@gmail.com); scheduling.nwngs@nwnatural.com (scheduling.nwngs@nwnatural.com); Hyams, Michael (MHyams@sfwater.org) (MHyams@sfwater.org); ericj@eslawfirm.com (ericj@eslawfirm.com); Olson, Elisabeth L. - Mktg Affil - E&FP (EOlson@semprautilities.com) (EOlson@semprautilities.com); McMahon, Rachel (Rachel.McMahon@cpuc.ca.gov); Marc Pryor (mpryor@energy.state.ca.us)

Cc: Ikle, Judith (judith.ikle@cpuc.ca.gov); Kito, Michele (michele.kito@cpuc.ca.gov); Morgenstern, Joy (joy.morgenstern@cpuc.ca.gov)

Bcc:

Subject: R.11-10-023 Workshop Nov 26 2013 Probabilistic Reliability Modeling Inputs and Assumptions paper

Service List for R.11-10-023

Please find attached the ED inputs and assumptions report for tomorrow's workshop. Copies will not be provided in the workshop so if you want to have a paper copy handy please print out and bring with you. This paper will be posted to the CPUIC website after the workshop.

Thank you for your participation and see you tomorrow.

Donald Brooks

Energy Division