

Task List for WINDOW6 / THERM6 Approval

Last Updated October 18, 2011

Completed task items are grayed out.

Task No.	Task	Owner(s)	Estimated Completion Date	Status	Notes / Comments
1	Satisfy NFRC Criteria:				
1-A	Covered in items #2 through #10	TG	TBD	Completed	
1-B					
1-C					
2	Cost / Benefit:				
2-A	Identify all current and future costs of the software.	LBNL / Staff	1/12/2007	Completed	Scott, Robin, & Christian to formulate analysis (Sim Manual); Scott & Bipin to work on indirect cost
2-B	Develop Cost Benefit Analysis (CBA).	Staff / TG	On-Going	Completed	Reviewed items and costs
2-C					
3 + 4	Accuracy / Comparisons:				
3-A	Provide documentation comparing the Window6/Therm6 "complex glazing" simulation results with the physical test results in the NFRC validation research project.	LBNL	10/7/2011	Completed.	
3-B	Conduct simulations of "complex glazing" products already tested and compare results.	LBNL / duPont	On-going	Canceled due to budget constraints	Pella, U. of Waterloo data , 2 sets of ODL data (including R. DePaola data).
3-C	Provide intermediate reports for review as available.	LBNL/ duPont	6/23/2011	Completed	
3-D	Review final report and provide feedback.	TG	11/15/2011		1st draft expected Nov. 4th
3-E	Identify additional data needed.	TG	11/15/2011		
3-F	Draft a RFP summary page	duPont	March '07	Completed	
3-G	Draft RFP for ballot	duPont	May '07	Completed	NFRC due date: 5/22
3-H	Mail ballots	Hayden / Staff	May 11th	Completed	Talk with S. Meza
3-I	Study comparing W5/T5 "non-complex glazing" results to W6/T6	Carli / LBNL	8/31/2010	Completed	U-factors identical and SHGC had a small bug corrected where results differed by 0.001-0.002. Study of total U-factor/SHGC/VT results show good agreement. Initial report distributed June 26, 2009. Second report to be distributed to this TG.
3-J	Posting of W5/T5 "non-complex glazing" results to W6/T6 study and database of data to website.	Staff	7/10/2009	Completed	
5	Usability & Reliability:				
5-A	Notify all Certified Simulators & IA's about LBNL posting updated working versions on website	Staff / Hayden	12/21/2010	Completed. New versions of W6 and T6 to be posted to web after training conducted per 5-E	LBNL to forward Staff link for new version to distribute to NFRC parties
5-B	Agenda item for Software SC in Arlington	Staff	11/1/2006	Completed	LBNL to give presentation @ Arlington
5-C	Presentation at Fall meeting for Monday evening 5:30 - 7:00pm	Staff	10/26/2006	Completed	
5-D	Commitments - simulators	LBNL	11/10/2006	Completed	LBNL has list

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5-E	Conduct training / testing as defined in Arlington	LBNL / Staff	5/4/2009		Based on (5-A); Updated list of participants (limited to about 10) in training formally contacted via email.
5-F	Gather and review comments from simulators & IA's / discuss w/ TG	LBNL / Staff	10/16/2009	Completed	After final testing (5-E). Report to be issued from LBNL to TG by 10/16/09 and will discuss as a group at next conference call
5-G	Follow up on action items from from 5-F	LBNL	May '10	Completed	Includes possible minor usability changes to the program.
5-H	Prepare & post a pre-launch of W6/T6 for final testing by certified simulators	LBNL/Staff	8/5/2010	Completed	This is to test usability and results of the non-complex glazings functionality
5-I	Post latest versions of W6/T6	LBNL/Staff	10/21/2011	Send list of bugs to TG	This is for numerous bug fixes
6	Documentation:				
6-A	To provide a draft of user manual to all certified simulators / IA's	LBNL / Staff	2/5/2008	Completed	
6-B	To provide a draft of recommended additions to simulation manual to specified set of simulators taking the preliminary training	LBNL	7/17/2009	Completed	Focus on blinds and frits. Did not get feedback from Beta testers.
6-C	To provide a draft of technical documentation	LBNL	Complete	Different than User's Manual	First draft - Description of Algorithms is posted on LBNL web
6-D	Gather and review comments / discuss w/ TG	LBNL	7/17/2009	Completed	
6-E	Distribute latest version of Simulation Manual to all Certified Simulators and IA's, Joe Hayden	Staff/LBNL	8/31/2009	Completed	
6-F	Review comments from Simulation Manual reviewers.	TG	10/31/2009	Completed	Send reminder of link to simulators, IAs for comments.
6-G	Prepare a draft Simulation Manual with Complex Glazings section	LBNL	May '11	Completed	
6-H	Prepare a draft of Users Manual with Complex Glazings section	LBNL	12/1/2011		
6-I	Finalize Chapter for Complex Glazing of Simulation Manual	LBNL	12/31/2011		For complex glazing only.
6-J	Finalize User Manual	LBNL	12/31/2011		For complex glazing.
6-K	Develop frit model documentation	LBNL	12/1/2011		For complex glazing.
6-L	Update current Simulation Manual	LBNL/Staff	12/31/2010	Completed	From W5/T5 to W6/T6, without complex glazings.
7	Training and Technical Support:				
7-A	Conduct training - non-complex glazing	LBNL / Staff	9/30/2010	Completed	Four separate 2-hour Webinars to be scheduled between Sep 24th and 30th. Webinar includes review of Simulation Manual.
7-B	Conduct preliminary training - complex glazing	LBNL / Staff	Jan '12		4 hour webinar
7-C	Conduct final training - complex glazing	LBNL / Staff	Feb '12		4 hour webinar
7-D	Maintain knowledge base, email, and phone support	LBNL	On going		
7-E	Inform APC / CPC that exams are necessary	Staff / Hayden	Feb '09	Completed	Emphasis on complex glazings

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7-F	Develop an exam for complex glazing, only	Staff/LBNL	Jan '12		Need to find a set of cross-sections for all approved complex glazing scenarios.
7-G	Conduct exam for complex glazing, only	Staff	Feb '12		Follow initial training
7-H	Follow-up training, if necessary	LBNL / Staff	Mar '12		Follow exam (webinar)
8	Availability:				
8-A	Post the approved NFRC Version on LBNL website	LBNL	12/31/2010	Completed	For non-complex glazing
8-B	Notify membership	Staff	12/31/2010	Completed	For non-complex glazing
8-C	Post the pre-launch NFRC Version on LBNL website and notify membership, if necessary	LBNL / Staff	Dec '11		Complex glazing
8-D	Post the approved final NFRC Version on LBNL website and notify membership	LBNL / Staff	Jan '12		Complex glazing
9	Upgrade or Withdrawal of Existing Software:				
9-A	TG to develop a formal recommendation for Software Review SC for non-complex glazing	TG	Jun '10	Completed	Implemented once 2 or more simulators are approved. Task Group to consider further.
9-B	Sunset W5/T5	TG	7/1/2011	Completed	
9-C	Update and distribute the new THERM5 boundary condition library for 20° tilt skylights	LBNL/Staff	12/17/2010	Completed	
9-D	Once W6/T6 is approved for use with CMAST, notify all simulators/IAs that they are encouraged to use W6/T6 for all work forward and W5/T5 will be sunset on July 1, 2011.	LBNL/Staff	1/21/2011	Completed	Email to all simulators and IA's. Cc to TG
9-E	Send request to Executive Committee to revise NFRC 100 for the listed boundary conditions regarding skylight modeling	Staff	12/14/2010	Completed	
9-F	Send changes to W5/T5 Simulation Manual for TIPC approval regarding 20° Tilt boundary conditions of skylights.	LBNL/Staff	12/17/2010	Completed	One page substitution to manual, sent out as addendum.
9-G	Post updates to W6/T6	LBNL	On-going		
10	Miscellaneous:				
10-A	Coordinate with database committee potential necessary database changes.	Staff	On-going		Staff forwarded to database developers the recommendations from LBNL to TG
10-B	Summarize recommended revisions to other NFRC documents.	Hayden	Oct '09	Complete	Compile information only; LAP / CAP manual revisions
10-C	Ballot proposed revisions for NFRC Spring 2012 Meeting	TG	Jan '12		For complex glazings only
10-D	Coordinate with Ratings about the implementation date for dynamic glazing rating requirements	Hayden	Oct '09	Complete	
10-E	Obtain final BOD approval of W6 / T6 for "non-complex glazings"	TG	Jul '10	Complete	
10-F	Obtain final BOD approval of W6 / T6 for "complex glazings", including implementation	TG	Nov '11		Recommendation letter distributed to membership.
10-G	Coordinate with CMA for "non-complex glazings"	LBNL / Curcija	Aug '10	Complete	LBNL fixed CR & other bugs in W6/T6.

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10-H	Coordinate with CMA for "complex glazings"	LBNL / NFRC	On-going		How does W6 coordinate data with CMAST (complex glazings)? Keep as placeholder. CMA scope currently does NOT include these products.
10-I	Formal update of the activities of this TG to Software SC	J Hayden	Nov '11		
10-J	Present the draft plan and process for data submission of Complex Glazing Database (CGDB) to the Software SC.	LNBL	7/15/2011	Complete	LBNL document and NFRC to reference
10-K	Beta version of CGDB for testing with new version of software	LBNL	Oct '11		LBNL finalizing the Beta version for release by end of October.
10-L	Complete white paper on BSDF measurements on materials used in Research Project	LBNL	9/30/2011	Not needed	
10-M	Issue recommendations to membership	TG	10/7/2011	Complete	
10-N	MFR CGDB ILC	LBNL	Jan '12		
10-O	Release version of CGDB with manufacturer data	LBNL	Mar '12		
10-P	Allow use of W6/T6 for certification of complex glazings	LBNL	Apr '12		

Task Group Members:

Brian Crooks, Ross DePaola, Willie duPont, Scott Hanlon, Joe Hayden, Christian Kohler, Jim Krahn, Peter Lyons, Marles McDonald, Robin Mitchell, Bipin Shah, Mike Thoman, Dan Wacek, Charlie Curcija, and John Gant.