

ID	WBS	Task Name	Duration	Start	Finish	Resource Names
1	1	<b>2015 MDWG Powerflow, Short Circuit and Dynamics Models</b>	<b>299 days</b>	<b>Fri 6/20/14</b>	<b>Thu 8/20/15</b>	
2	1.1	<b>2015 MDWG Powerflow Models</b>	<b>299 days</b>	<b>Fri 6/20/14</b>	<b>Thu 8/20/15</b>	
3	1.1.1	Post Preliminary Models	1 day	Fri 6/20/14	Fri 6/20/14	
4	1.1.2	<b>Kick-off</b>	<b>21 days</b>	<b>Tue 7/1/14</b>	<b>Wed 7/30/14</b>	
5	1.1.2.1	<b>Kick-off - Review MOD Projects</b>	<b>10 days</b>	<b>Tue 7/1/14</b>	<b>Tue 7/15/14</b>	
6	1.1.2.1.1	Kick-off - Review MOD Projects	10 days	Tue 7/1/14	Tue 7/15/14	SPP
7	1.1.2.2	Kick-off - Lock Down MOD	18 days	Mon 7/7/14	Wed 7/30/14	SPP
8	1.1.2.3	Kick-off - MOD Model Extraction	1 day	Wed 7/16/14	Wed 7/16/14	SPP
9	1.1.3	<b>Kick-off - Build Pass 1 Powerflow</b>	<b>10 days</b>	<b>Thu 7/17/14</b>	<b>Wed 7/30/14</b>	
10	1.1.3.1	Kick-off - Build Pass 1 Powerflow	10 days	Thu 7/17/14	Wed 7/30/14	SPP
11	1.1.4	Kick-off - Post Pass 1 Powerflow	0 days	Wed 7/30/14	Wed 7/30/14	SPP
12	1.1.5	Kick-off - Initial Data Request (Contingency List Updates, Transactions, MTL)	0 days	Wed 7/30/14	Wed 7/30/14	SPP
13	1.1.6	<b>Pass 1</b>	<b>27 days</b>	<b>Thu 7/31/14</b>	<b>Mon 9/8/14</b>	
14	1.1.6.1	Pass 1 - Members Review/Submit Changes to Pass 1 Models	10 days	Thu 7/31/14	Wed 8/13/14	Members
15	1.1.6.2	Pass 1 - Member Review/Changes Due (Projects, Transactions, MTL, Contingency List)	0 days	Wed 8/13/14	Wed 8/13/14	Members
16	1.1.6.3	<b>Pass 1 - Review MOD Projects</b>	<b>15 days</b>	<b>Thu 7/31/14</b>	<b>Wed 8/20/14</b>	
17	1.1.6.3.1	Pass 1 - Review MOD Projects	15 days	Thu 7/31/14	Wed 8/20/14	SPP
18	1.1.6.4	Pass 1 - Lock Down MOD	16 days	Thu 8/14/14	Fri 9/5/14	SPP
19	1.1.6.5	Pass 1 - MOD Model Extraction	1 day	Thu 8/21/14	Thu 8/21/14	SPP
20	1.1.6.6	<b>Pass 1 - Build Pass 2 Powerflow Models</b>	<b>10 days</b>	<b>Fri 8/22/14</b>	<b>Fri 9/5/14</b>	
21	1.1.6.6.1	Pass 1 - Build Pass 2 Powerflow Models	10 days	Fri 8/22/14	Fri 9/5/14	SPP
22	1.1.6.7	Pass 1 - Post Pass 2 Powerflow Models	0 days	Fri 9/5/14	Fri 9/5/14	SPP
23	1.1.6.8	Pass 1 - Pass 2 ACCC Analysis (if models solved)	1 day	Mon 9/8/14	Mon 9/8/14	SPP
24	1.1.7	<b>Pass 2</b>	<b>27 days</b>	<b>Mon 9/8/14</b>	<b>Wed 10/15/14</b>	
25	1.1.7.1	Pass 2 - Members Review/Submit Changes to Pass 2 Powerflow Models	10 days	Mon 9/8/14	Fri 9/19/14	Members
26	1.1.7.2	Pass 2 - Status Conference Call	1 day	Mon 9/15/14	Mon 9/15/14	
27	1.1.7.3	Pass 2 - Member Review/Changes Due	0 days	Fri 9/19/14	Fri 9/19/14	Members
28	1.1.7.4	Request First Tier external Short Circuit sequence data	0 days	Wed 10/15/14	Wed 10/15/14	SPP
29	1.1.7.5	<b>Pass 2 - Review MOD Projects</b>	<b>15 days</b>	<b>Mon 9/8/14</b>	<b>Fri 9/26/14</b>	
30	1.1.7.5.1	Pass 2 - Review MOD Projects	15 days	Mon 9/8/14	Fri 9/26/14	SPP
31	1.1.7.6	Pass 2 - Lock Down MOD	16 days	Mon 9/22/14	Mon 10/13/14	SPP
32	1.1.7.7	Pass 2 - MOD Model Extraction	1 day	Mon 9/29/14	Mon 9/29/14	SPP
33	1.1.7.8	<b>Pass 2 - Build Pass 3 Powerflow Models</b>	<b>10 days</b>	<b>Tue 9/30/14</b>	<b>Mon 10/13/14</b>	
34	1.1.7.8.1	Pass 2 - Build Pass 3 Powerflow Models	10 days	Tue 9/30/14	Mon 10/13/14	SPP
35	1.1.7.9	Pass 2 - Post Pass 3 Powerflow Models	0 days	Mon 10/13/14	Mon 10/13/14	SPP
36	1.1.7.10	Pass 2 - Pass 3 ACCC Analysis (if models solved)	1 day	Tue 10/14/14	Tue 10/14/14	SPP
37	1.1.8	<b>Pass 3</b>	<b>32 days</b>	<b>Tue 10/14/14</b>	<b>Wed 11/26/14</b>	
38	1.1.8.1	Pass 3 - Request Review of 2014 ITP IDEVS	0 days	Fri 11/14/14	Fri 11/14/14	SPP
39	1.1.8.2	Pass 3 - Members Review/Submit Changes to Pass 3 Powerflow Models	24 days	Tue 10/14/14	Fri 11/14/14	Members
40	1.1.8.3	Pass 3 - Status Conference Call	1 day	Wed 10/29/14	Wed 10/29/14	
41	1.1.8.4	Pass 3 - Member Review/Changes Due	0 days	Fri 11/14/14	Fri 11/14/14	Members
42	1.1.8.5	<b>Pass 3 - Review MOD Projects</b>	<b>24 days</b>	<b>Tue 10/14/14</b>	<b>Fri 11/14/14</b>	
43	1.1.8.5.1	Pass 3 - Review MOD Projects	24 days	Tue 10/14/14	Fri 11/14/14	SPP
44	1.1.8.6	Pass 3 - Lock Down MOD	7 days	Mon 11/17/14	Tue 11/25/14	SPP
45	1.1.8.7	Pass 3 - Model Update Meeting	2 days	Thu 11/13/14	Fri 11/14/14	
46	1.1.8.8	Pass 3 - MOD Model Extraction	1 day	Mon 11/17/14	Mon 11/17/14	SPP
47	1.1.8.9	<b>Pass 3 - Build Pass 4 Powerflow Models</b>	<b>6 days</b>	<b>Tue 11/18/14</b>	<b>Tue 11/25/14</b>	
48	1.1.8.9.1	Pass 3 - Build Pass 4 Powerflow Models - Merge with 2014 MMWG Series	6 days	Tue 11/18/14	Tue 11/25/14	SPP
49	1.1.8.10	Pass 3 - Post Pass 4 Powerflow Models	0 days	Tue 11/25/14	Tue 11/25/14	SPP
50	1.1.8.11	Pass 3 - Pass 4 ACCC Analysis	1 day	Wed 11/26/14	Wed 11/26/14	SPP
51	1.1.9	<b>Pass 4</b>	<b>45 days</b>	<b>Wed 11/26/14</b>	<b>Mon 2/2/15</b>	
52	1.1.9.1	Pass 4 - Members Review/Submit Changes to Pass 4 Powerflow Models	22 days	Wed 11/26/14	Wed 12/31/14	Members
53	1.1.9.2	Pass 4 - Status Conference Call	1 day	Fri 12/12/14	Fri 12/12/14	
54	1.1.9.3	Pass 4 - Member Review/Changes Due	0 days	Wed 12/31/14	Wed 12/31/14	Members
55	1.1.9.4	<b>Pass 4 - Review MOD Projects</b>	<b>33 days</b>	<b>Wed 11/26/14</b>	<b>Thu 1/15/15</b>	
56	1.1.9.4.1	Pass 4 - Review MOD Projects	33 days	Wed 11/26/14	Thu 1/15/15	SPP
57	1.1.9.5	Pass 4 - Lock Down MOD	22 days	Thu 1/1/15	Fri 1/30/15	SPP
58	1.1.9.6	Pass 4 - MOD Model Extraction	1 day	Fri 1/16/15	Fri 1/16/15	SPP
59	1.1.9.7	<b>Pass 4 - Build Final Powerflow Models</b>	<b>10 days</b>	<b>Mon 1/19/15</b>	<b>Fri 1/30/15</b>	

ID	WBS	Task Name	Duration	Start	Finish	Resource Names
60	1.1.9.7.1	Pass 4 - Build Final Powerflow Models - with ITP NTC IDEVS	10 days	Mon 1/19/15	Fri 1/30/15	
61	1.1.9.8	Pass 4 - Post MDWG 2015 Series Build Final Powerflow Models	0 days	Fri 1/30/15	Fri 1/30/15	SPP
62	1.1.9.9	Pass 4 - Final ACCC Analysis	1 day	Mon 2/2/15	Mon 2/2/15	SPP
63	1.1.10	<b>Final</b>	<b>6 days</b>	<b>Mon 2/2/15</b>	<b>Mon 2/9/15</b>	
64	1.1.10.1	Final - Members Review for Finalization of Powerflow Models	5 days	Mon 2/2/15	Fri 2/6/15	Members
65	1.1.10.2	Finalization - Conference Call Vote	1 day	Mon 2/9/15	Mon 2/9/15	
66	1.1.11	<b>2015 MDWG Short Circuit Models - Build Pass 1 Short Circuit Models</b>	<b>56 days</b>	<b>Tue 11/18/14</b>	<b>Mon 2/9/15</b>	
67	1.1.11.1	Kick-off - Build Pass 1 Short Circuit Models	6 days	Tue 11/18/14	Tue 11/25/14	SPP
68	1.1.11.2	Kick-off - Post Pass 1 Short Circuit Models	0 days	Tue 11/25/14	Tue 11/25/14	SPP
69	1.1.11.3	Pass 1 - Members Review/Submit Changes to Pass 1 Short Circuit Models	22 days	Wed 11/26/14	Wed 12/31/14	Members
70	1.1.11.4	Pass 1 - Member Review/Changes Due	0 days	Wed 12/31/14	Wed 12/31/14	Members
71	1.1.11.5	Pass 1 - Build Final Short Circuit Models	22 days	Thu 1/1/15	Fri 1/30/15	SPP
72	1.1.11.6	Pass 1 - Post MDWG 2015 Series Final Short Circuit Models	0 days	Fri 1/30/15	Fri 1/30/15	SPP
73	1.1.11.7	Final - Member Review for Finalization of Short Circuit Models	5 days	Mon 2/2/15	Fri 2/6/15	Members
74	1.1.11.8	Finalization - Conference Call Vote	1 day	Mon 2/9/15	Mon 2/9/15	
75	1.1.12	<b>2015 MDWG DYNAMICS MODELS</b>	<b>188 days</b>	<b>Wed 11/26/14</b>	<b>Thu 8/20/15</b>	
76	1.1.12.1	<b>MMWG 2014 Series Dynamic Models</b>	<b>1 day</b>	<b>Mon 1/19/15</b>	<b>Mon 1/19/15</b>	
77	1.1.12.1.1	Receive ERAG MMWG SDDB (Dynamics Database)	1 day	Mon 1/19/15	Mon 1/19/15	
78	1.1.12.2	<b>Initial Data Update</b>	<b>54 days</b>	<b>Wed 11/26/14</b>	<b>Fri 2/13/15</b>	
79	1.1.12.2.1	<b>Initial Data Update - Build and Post DYRE Files, Wind Farm Data, and Docureport</b>	<b>10 days</b>	<b>Wed 11/26/14</b>	<b>Thu 12/11/14</b>	
80	1.1.12.2.1.1	Initial Data Update - Build and Post DYRE Files, Wind Farm Data, and Docureport	10 days	Wed 11/26/14	Thu 12/11/14	SPP
81	1.1.12.2.2	Initial Data Update - Members Submit Data Updates	44 days	Fri 12/12/14	Fri 2/13/15	Members
82	1.1.12.2.3	Initial Data Update - Member Data Due	0 days	Fri 2/13/15	Fri 2/13/15	Members
83	1.1.12.3	<b>Powerflow Adjustments</b>	<b>20 days</b>	<b>Tue 2/10/15</b>	<b>Mon 3/9/15</b>	
84	1.1.12.3.1	Powerflow Updates	10 days	Tue 2/10/15	Mon 2/23/15	SPP
85	1.1.12.3.2	Wind Farm Topology and GI Updates	10 days	Tue 2/24/15	Mon 3/9/15	SPP
86	1.1.12.4	<b>Dynamic Case Adjustments</b>	<b>37 days</b>	<b>Tue 2/24/15</b>	<b>Wed 4/15/15</b>	
87	1.1.12.4.1	Update SDDB (ERAG/MMWG Dynamic Database)	4 days	Tue 2/24/15	Fri 2/27/15	SPP
88	1.1.12.4.2	Duplicate Models	2 days	Mon 3/2/15	Tue 3/3/15	SPP
89	1.1.12.4.3	Generator Data Checks	2 days	Wed 3/4/15	Thu 3/5/15	SPP
90	1.1.12.4.4	SDDB Governor Limits and Small Time Constant Reset	2 days	Fri 3/6/15	Mon 3/9/15	SPP
91	1.1.12.4.5	WMOD/Generic WTG Checks	2 days	Tue 3/10/15	Wed 3/11/15	SPP
92	1.1.12.4.6	CONL & GNET Files Updates	4 days	Thu 3/12/15	Tue 3/17/15	SPP
93	1.1.12.4.7	Post Member Feedback for Dynamic Data & Case Issues	1 day	Wed 3/18/15	Wed 3/18/15	SPP
94	1.1.12.4.8	Members Submit Data Updates	15 days	Thu 3/19/15	Wed 4/8/15	Members
95	1.1.12.4.9	Member Data Due	0 days	Wed 4/8/15	Wed 4/8/15	Members
96	1.1.12.4.10	Process SPP Member Updates	5 days	Thu 4/9/15	Wed 4/15/15	SPP
97	1.1.12.5	<b>Dynamic Case Initialization</b>	<b>15 days</b>	<b>Thu 4/16/15</b>	<b>Wed 5/6/15</b>	
98	1.1.12.5.1	Case & Dyre File Corrections based on Initialization Messages	15 days	Thu 4/16/15	Wed 5/6/15	SPP
99	1.1.12.6	<b>Build Final Models</b>	<b>35 days</b>	<b>Thu 5/7/15</b>	<b>Wed 6/24/15</b>	
100	1.1.12.6.1	20 Second No-fault Test & Case Adjustment	10 days	Thu 5/7/15	Wed 5/20/15	SPP
101	1.1.12.6.2	60 Second Ring-Down Test & Case Adjustment	10 days	Thu 5/21/15	Wed 6/3/15	SPP
102	1.1.12.6.3	NERC B&C Faults Test & Case Adjustment	5 days	Thu 6/4/15	Wed 6/10/15	SPP
103	1.1.12.6.4	Dynamic Case Reduction	10 days	Thu 6/11/15	Wed 6/24/15	SPP
104	1.1.12.7	<b>Dynamic Case Review and Finalization</b>	<b>41 days</b>	<b>Thu 6/25/15</b>	<b>Thu 8/20/15</b>	
105	1.1.12.7.1	Post Initial Models	5 days	Thu 6/25/15	Wed 7/1/15	SPP
106	1.1.12.7.2	Member Review of Initial Models	10 days	Thu 7/2/15	Wed 7/15/15	Members
107	1.1.12.7.3	Member Data Due	0 days	Wed 7/15/15	Wed 7/15/15	Members
108	1.1.12.7.4	Final Data Update - Build Final Models	10 days	Thu 7/16/15	Wed 7/29/15	SPP
109	1.1.12.7.5	Post Final Models	1 day	Thu 7/30/15	Thu 7/30/15	SPP
110	1.1.12.7.6	Member Review for Finalization of Dynamic Models	10 days	Fri 7/31/15	Thu 8/13/15	Members
111	1.1.12.7.7	MDWG Vote	5 days	Fri 8/14/15	Thu 8/20/15	Members

<b>2015 Series Model Selection</b>							
<b>MMWG</b>		<b>MMWG MDWG</b>			<b>MDWG</b>		
<b>Power Flow Model</b>	<b>Dynamic Model</b>	<b>Year</b>	<b>Year</b>	<b>Season</b>	<b>Power Flow Model</b>	<b>Dynamic Model</b>	<b>Short Circuit Model</b>
		2015	2015	Spring	X		
		2015	2015	Summer	X		X
		2015	2015	Summer Shoulder	X		
		2015	2015	Fall	X		
		2015	2015	Winter	X		
X	X	2016	2016	Light Load	X	X	
X		2016	2016	Spring	X		
X	X	2016	2016	Summer	X	X	
X	X	2016	2016	Summer Shoulder	X	X	
X		2016	2016	Fall	X		
X	X	2016	2016	Winter	X	X	
X		2017	2017	Spring	X		
X	X	2017	2017	Summer	X	X	
X		2017	2017	Winter	X		
X	X	2021	2020	Light Load	X	X	
X	X	2021	2020	Summer	X	X	X
X	X	2021	2020	Winter	X	X	
X		2026	2025	Summer	X	X	
		2026	2025	Winter	X		

MMWG: Multiregional Modeling Working Group

MDWG: Model Development Working Group