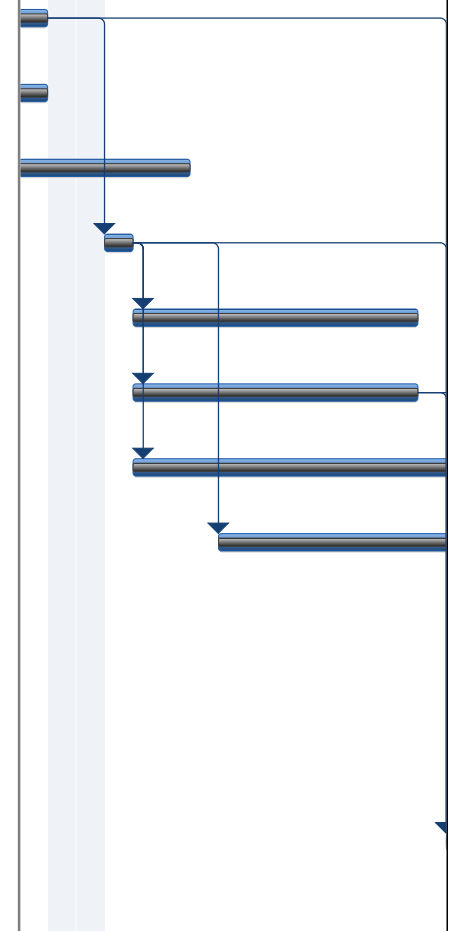


ID		Task Name	Duration	Start	Finish	Predecessors	Resource Names	28, '10		Dec 5, '10				Dec 12, '10			
								T	T	S	M	W	F	S	T	T	
1	✓	Review needs with sponsor	1 day	Fri 12/3/10	Fri 12/3/10												
2	✓	Identify project manager	1 day	Fri 12/3/10	Fri 12/3/10												
3	✓	Define norms, values, roles, etc.	4 days	Fri 12/3/10	Wed 12/8/10												
4	✓	Determine knowns and unknowns	1 day	Mon 12/6/10	Mon 12/6/10	1											
5	✓	Project planning documents	8 days	Tue 12/7/10	Thu 12/16/10	4											
6	✓	Development of specifications	8 days	Tue 12/7/10	Thu 12/16/10	4											
7	✓	Initial concept development	23 days	Tue 12/7/10	Thu 1/6/11	4											
8	✓	Formulate project plan	21 days	Fri 12/10/10	Fri 1/7/11	4											
9	✓	Specs, risks, concept development, system design, etc.	2 days	Fri 1/7/11	Mon 1/10/11	7											
10	✓	Benchmark current methods	13 days	Mon 12/20/10	Wed 1/5/11	6											
11	✓	Determine design concepts	2 days	Fri 1/7/11	Mon 1/10/11	7											
12	✓	Match engineering metrics with customer needs	1 day	Fri 12/17/10	Mon 12/20/10	1,4,6											
13	✓	Identify individual roles	0 days	Thu 1/6/11	Thu 1/6/11	7											



Project: MSD Date: Fri 2/18/11	Task		External Milestone		Manual Summary Rollup	
	Split		Inactive Task		Manual Summary	
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								T	T	S	M	W	F	S	T	T	
14	✓	Identify customer constraints	1 day	Fri 1/7/11	Fri 1/7/11	12											
15	✓	Update project plan	2 days	Fri 1/7/11	Mon 1/10/11												
16	✓	System design	3 days	Mon 1/3/11	Wed 1/5/11												
17	✓	Create presentation	3 days	Mon 1/10/11	Wed 1/12/11												
18	✓	Prep for Design Review	3 days	Tue 1/11/11	Thu 1/13/11	15											
19	✓	Update EDGE	3 days	Mon 1/10/11	Wed 1/12/11												
20	✓	Design Review	1 day	Fri 1/14/11	Fri 1/14/11												
21	✓	Calculate exact movement and translation distances	3 days	Mon 1/17/11	Wed 1/19/11												
22	✓	Analyze structural stress	3 days	Mon 1/17/11	Wed 1/19/11												
23	✓	Analyze shaft forces	3 days	Mon 1/17/11	Wed 1/19/11												
24	✓	Create mathematical model for performance prediction	4 days	Mon 1/17/11	Thu 1/20/11												
25	✓	Test sensitivity to motor	2 days	Wed 1/19/11	Thu 1/20/11												
26	✓	Determine interchangeability methods of impeller on shaft	3 days	Mon 1/17/11	Wed 1/19/11												
27	✓	Determine force measurement method	1 day	Thu 1/20/11	Thu 1/20/11	23											
28	✓	Determine torque measurement method	1 day	Thu 1/20/11	Thu 1/20/11	23											
29	✓	Determine RPM measurement method	1 day	Thu 1/20/11	Thu 1/20/11	23											

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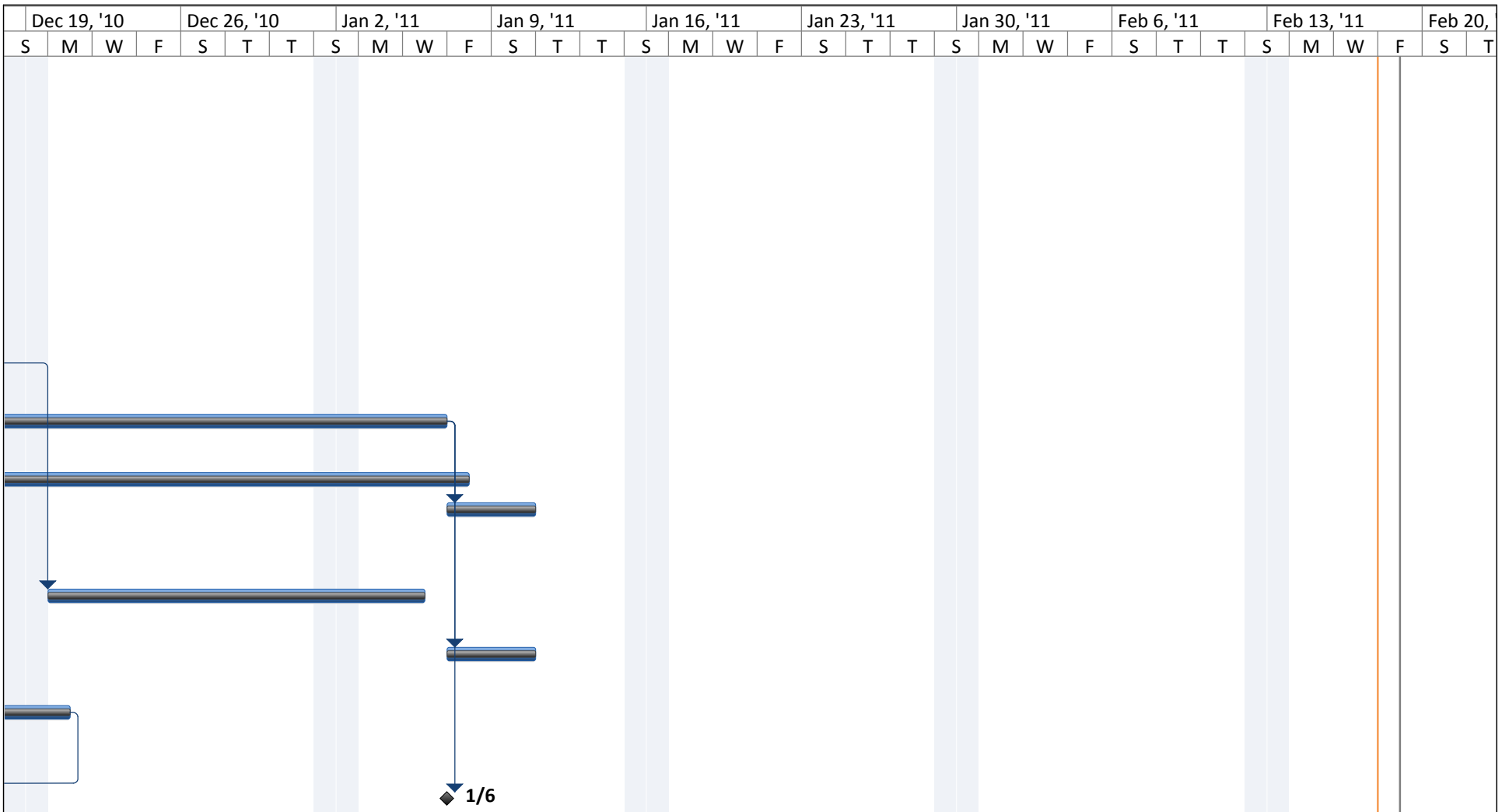
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								T	T	S	M	W	F	S	T	T	
30	✓	Update project plan	1 day	Fri 1/21/11	Fri 1/21/11	21,22,23,24,25,											
31	✓	Work on detailed design	4 days	Mon 1/24/11	Thu 1/27/11	30											
32	✓	Decide force measurement device	4 days	Mon 1/24/11	Thu 1/27/11	30											
33	✓	Select sealing device	4 days	Mon 1/24/11	Thu 1/27/11	30											
34	✓	Identify calibration devices	4 days	Mon 1/24/11	Thu 1/27/11	30											
35	✓	Identify shaft/motor connection	4 days	Mon 1/24/11	Thu 1/27/11	30											
36	✓	Identify motor to stand connection	4 days	Mon 1/24/11	Thu 1/27/11	30											
37	✓	Design adjustable mount	4 days	Mon 1/24/11	Thu 1/27/11	30											
38	📅	Design stand	4 days	Mon 1/24/11	Thu 1/27/11	30											
39	📅	Design translation system	4 days	Mon 1/24/11	Thu 1/27/11	30											
40	✓	Decide on torque device	4 days	Mon 1/24/11	Thu 1/27/11	30											
41	✓	Decide on RPM measuring device	4 days	Mon 1/24/11	Thu 1/27/11	30											
42	✓	Update project plan	1 day	Fri 1/28/11	Fri 1/28/11	31,32,33,34,35,											
43	✓	Identify modification areas to tank	3 days	Mon 1/31/11	Wed 2/2/11	42											
44	✓	Research suppliers	3 days	Mon 1/31/11	Wed 2/2/11												
45	✓	Identify long lead-time items	2 days	Wed 2/2/11	Thu 2/3/11												

Project: MSD Date: Fri 2/18/11	Task		External Milestone		Manual Summary Rollup	
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								T	T	S	M	W	F	S	T	T	
46	✓	Prep for detailed design review	2 days	Mon 1/31/11	Tue 2/1/11	42											
47	✓	Update project plan	3 days	Fri 2/4/11	Tue 2/8/11	43,44,45											
48	✓	Final Design Review(internal)	1 day	Wed 2/9/11	Wed 2/9/11	46,47											
49		Update EDGE	3 days	Thu 2/10/11	Mon 2/14/11	47											
50		Peer Review	1 day	Thu 2/10/11	Thu 2/10/11	47											
51		Plan calibration steps	2 days	Thu 2/10/11	Fri 2/11/11	47											
52		Finalize all documents	5 days	Thu 2/10/11	Wed 2/16/11	47											
53		Finalize EDGE	5 days	Thu 2/10/11	Wed 2/16/11	47											
54		Prep for project review	4 days	Thu 2/10/11	Tue 2/15/11	47											
55		Project Review	1 day	Fri 2/18/11	Fri 2/18/11	54											

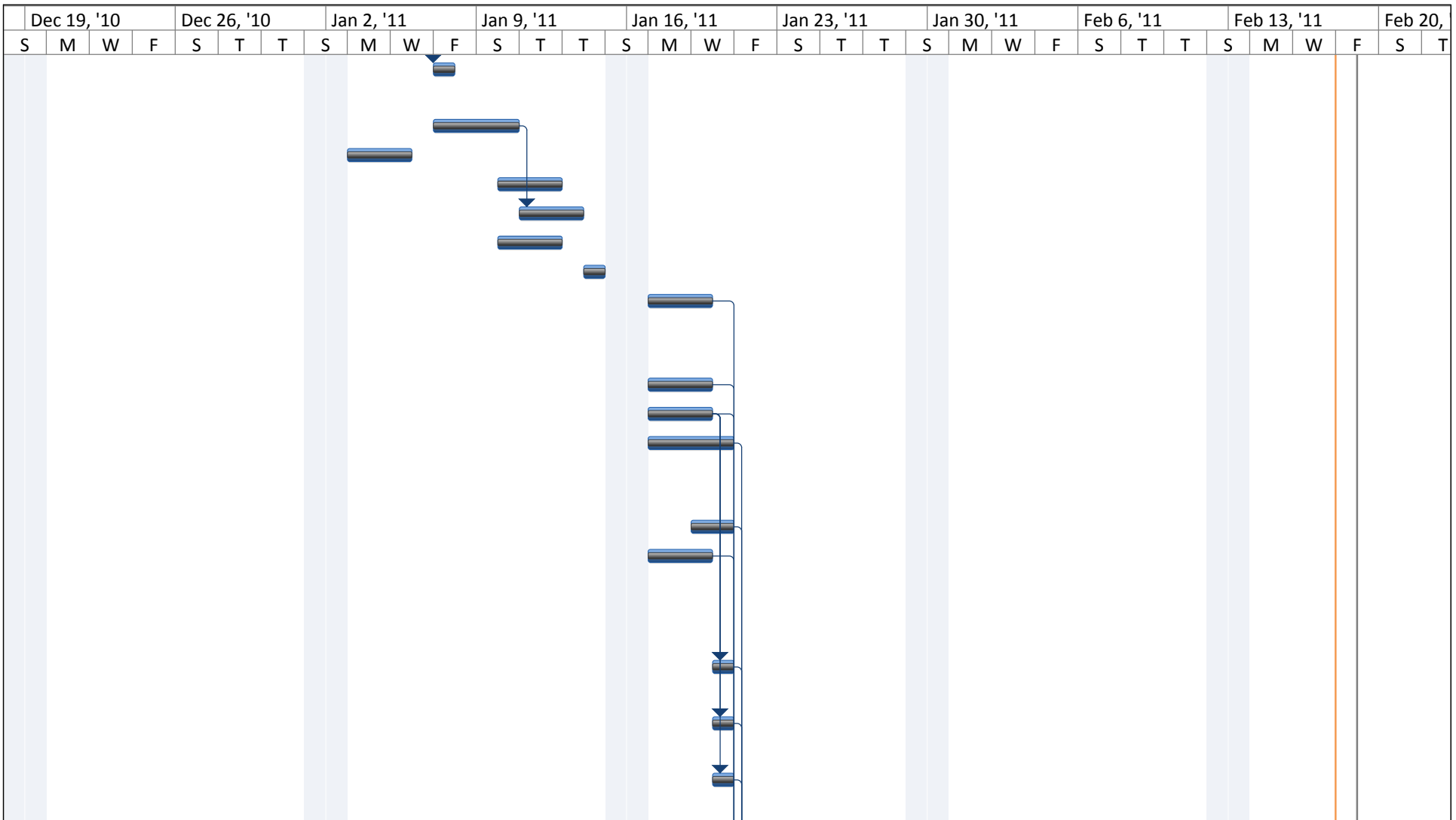
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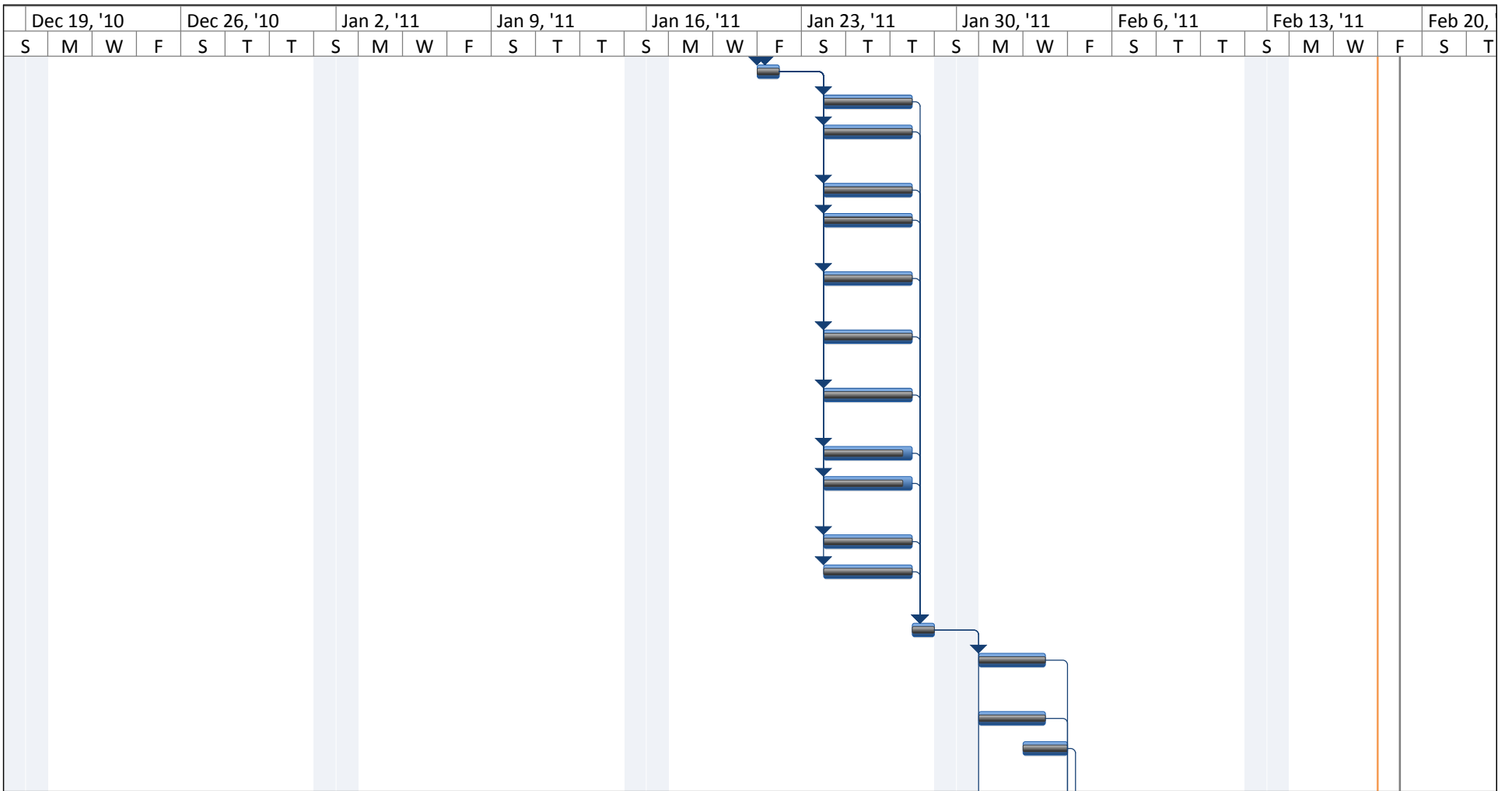
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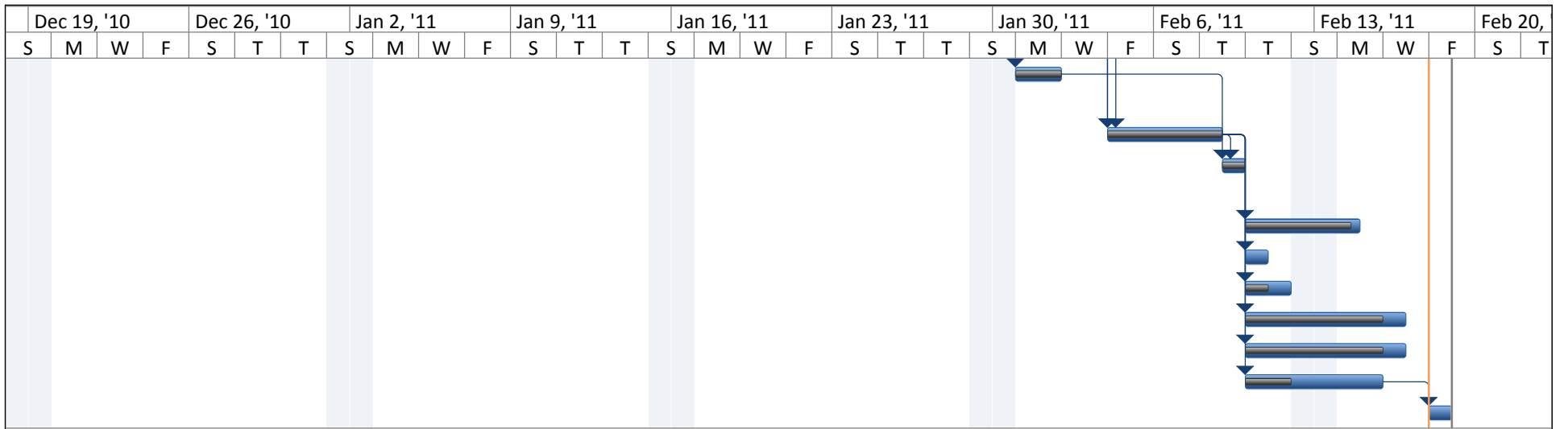
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