Assignment No. 2:

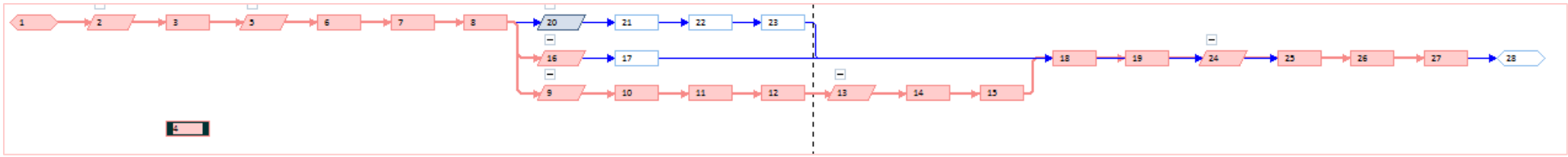
Develop Project Baselines Using Microsoft Project

Team Burning

WBS

ID	WBS	Task Name	Duration	Start	Finish
0	**0**	**Zulu Project**	**255 days**	**Tue 5/1/18**	**Tue 4/23/19**
1	1	Start	0 days	Tue 5/1/18	Tue 5/1/18
2	**2**	**Project Management**	**255 days**	**Tue 5/1/18**	**Mon 4/22/19**
3	2.1	Kickoff Project / Develop Project Plan	5 days	Tue 5/1/18	Mon 5/7/18
4	2.2	Monitor, Control & Manage Project	255 days	Tue 5/1/18	Mon 4/22/19
5	**3**	**Initial Design**	**45 days**	**Tue 5/8/18**	**Mon 7/9/18**
6	3.1	Gather Requirements	15 days	Tue 5/8/18	Mon 5/28/18
7	3.2	Design Prototype	25 days	Tue 5/29/18	Mon 7/2/18
8	3.3	Validate Design with Customer	5 days	Tue 7/3/18	Mon 7/9/18
9	**4**	**Prototyping**	**50 days**	**Tue 7/10/18**	**Mon 9/17/18**
10	4.1	Build Prototype	25 days	Tue 7/10/18	Mon 8/13/18
11	4.2	Test Prototype	10 days	Tue 8/14/18	Mon 8/27/18
12	4.3	Revise / Test Prototype	15 days	Tue 8/28/18	Mon 9/17/18
13	**5**	**Finalize Design**	**15 days**	**Tue 9/18/18**	**Mon 10/8/18**
14	5.1	Finalize Design	10 days	Tue 9/18/18	Mon 10/1/18
15	5.2	Validate Design with Customer	5 days	Tue 10/2/18	Mon 10/8/18
16	**6**	**Regulatory Assistance**	**135 days**	**Tue 7/10/18**	**Mon 1/14/19**
17	6.1	Prepare Application	20 days	Tue 7/10/18	Mon 8/6/18
18	6.2	Submit Application	10 days	Tue 10/9/18	Mon 10/22/18
19	6.3	Receive Approval	60 days	Tue 10/23/18	Mon 1/14/19
20	**7**	**Procurement**	**105 days**	**Tue 7/10/18**	**Mon 12/3/18**
21	7.1	Select Suppliers	50 days	Tue 7/10/18	Mon 9/17/18
22	7.2	Negotiate/ Sign Agreements	25 days	Tue 9/18/18	Mon 10/22/18
23	7.3	Procure Equipment/Materials	30 days	Tue 10/23/18	Mon 12/3/18
24	**8**	**Launch**	**70 days**	**Tue 1/15/19**	**Tue 4/23/19**
25	8.1	Ramp-up for Production	50 days	Tue 1/15/19	Mon 3/25/19
26	8.2	Perform Production Testing	15 days	Tue 3/26/19	Mon 4/15/19
27	8.3	Launch	5 days	Tue 4/16/19	Mon 4/22/19
28	8.4	Finish	0 days	Tue 4/23/19	Tue 4/23/19

Network Diagram



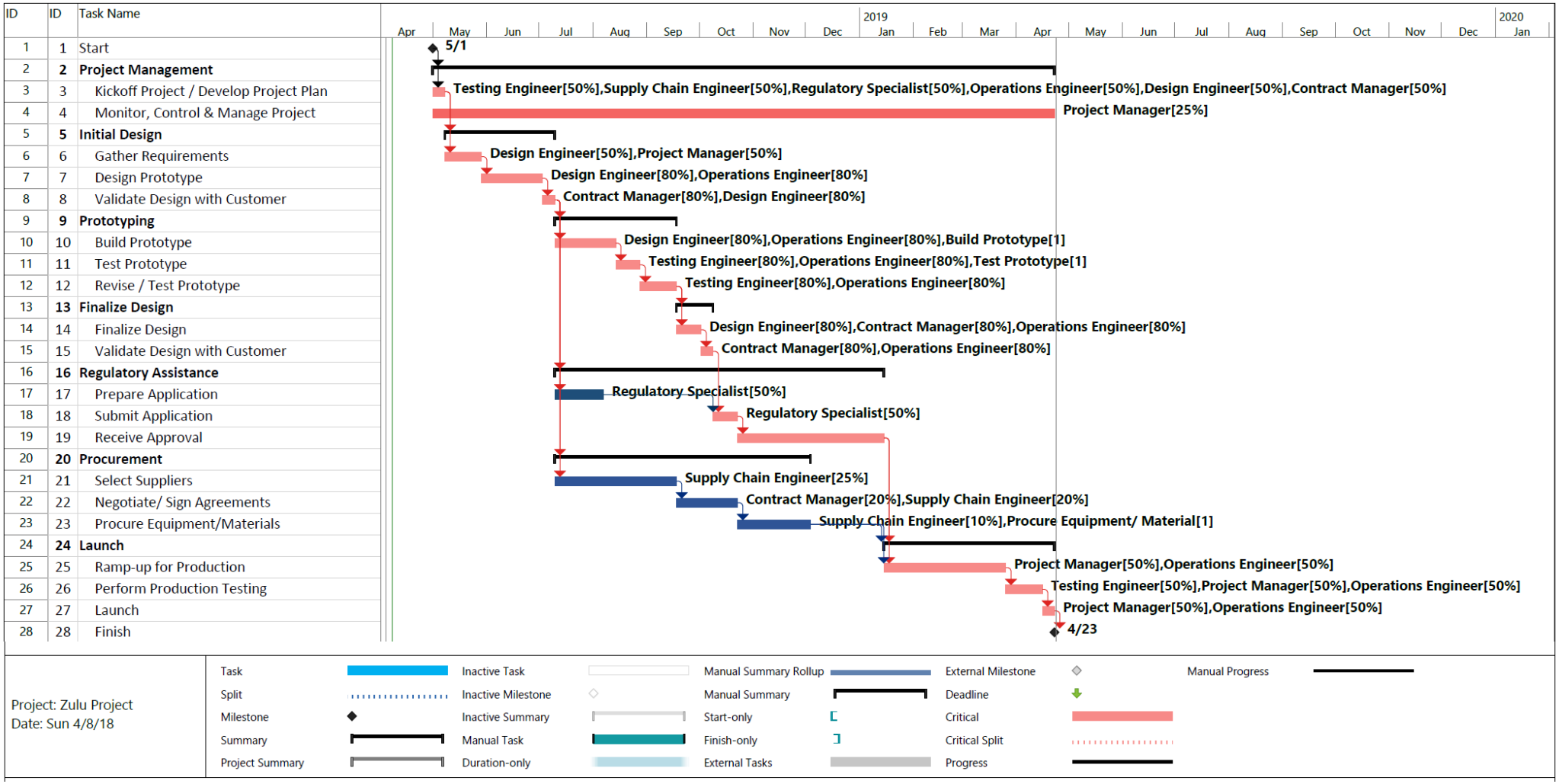
Footnotes

1 Start
2 Project Management
3 Kickoff Project/Develop Project Plan
4 Monitor, Control & Manage Project
5 Initial Design
6 Gather Requirements
7 Design Prototype
8 Validate Design with Customer
9 Prototyping
10 Build Prototype
11 Test Prototype
12 Revise/Test Prototype
13 Final Design
14 Finalize Design
15 Validate Design with Customer
16 Regulatory Assistance
17 Prepare Application
18 Submit Application
19 Receive Approval
20 Procurement
21 Select Suppliers
22 Negotiate/Sign Agreements
23 Procure Equipment/Materials
24 Launch
25 Ramp-up for Production
26 Perform Production Testing
27 Launch
28 Finish

Project: Zulu Project
Date: Sat 4/7/18

Critical	Milestone	Critical Inserted	Marked	Project Summary
Noncritical	Critical Summary	Inserted	Critical External	Highlighted Critical
Critical Milestone	Summary	Critical Marked	External	Highlighted Noncritical

Gantt Chart


ID
ID
Task Name
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
2019
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
2020
Jan
1 1 Start
2 2 Project Management
3 3 Kickoff Project / Develop Project Plan
4 4 Monitor, Control & Manage Project
5 5 Initial Design
6 6 Gather Requirements
7 7 Design Prototype
8 8 Validate Design with Customer
9 9 Prototyping
10 10 Build Prototype
11 11 Test Prototype
12 12 Revise / Test Prototype
13 13 Finalize Design
14 14 Finalize Design
15 15 Validate Design with Customer
16 16 Regulatory Assistance
17 17 Prepare Application
18 18 Submit Application
19 19 Receive Approval
20 20 Procurement
21 21 Select Suppliers
22 22 Negotiate/ Sign Agreements
23 23 Procure Equipment/Materials
24 24 Launch
25 25 Ramp-up for Production
26 26 Perform Production Testing
27 27 Launch
28 28 Finish
5/1
Testing Engineer[50%],Supply Chain Engineer[50%],Regulatory Specialist[50%],Operations Engineer[50%],Design Engineer[50%],Contract Manager[50%]
Project Manager[25%]
Design Engineer[50%],Project Manager[50%]
Design Engineer[80%],Operations Engineer[80%]
Contract Manager[80%],Design Engineer[80%]
Design Engineer[80%],Operations Engineer[80%],Build Prototype[1]
Testing Engineer[80%],Operations Engineer[80%],Test Prototype[1]
Testing Engineer[80%],Operations Engineer[80%]
Design Engineer[80%],Contract Manager[80%],Operations Engineer[80%]
Contract Manager[80%],Operations Engineer[80%]
Regulatory Specialist[50%]
Regulatory Specialist[50%]
Supply Chain Engineer[25%]
Contract Manager[20%],Supply Chain Engineer[20%]
Supply Chain Engineer[10%],Procure Equipment/ Material[1]
Project Manager[50%],Operations Engineer[50%]
Testing Engineer[50%],Project Manager[50%],Operations Engineer[50%]
Project Manager[50%],Operations Engineer[50%]
4/23
Project: Zulu Project
Date: Sun 4/8/18
Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Critical
Critical Split
Progress
Manual Progress

Resource Spreadsheet 1/2

ID	Task Name	Work	Duration	Details	May	Jun	Qtr 3, 2018 Jul	Aug	Sep	Qtr 4, 2018 Oct	Nov	Dec	Qtr 1, 2019 Jan	Feb	Mar	Qtr 2, 2019 Apr	M
0	**Zulu Project**	**3,174 hrs**	**255 days**	Work	324.4h	310.8h	421.6h	402.4h	404.4h	214h	149.6h	126.8h	190h	200h	226h	204h	
1	Start	0 hrs	0 days	Work													
2	**Project Management**	**630 hrs**	**255 days**	Work	166h	42h	44h	46h	40h	46h	44h	42h	46h	40h	42h	32h	
3	Kickoff Project / Develop Project Plan	120 hrs	5 days	Work	120h												
	Design Engineer	*20 hrs*		Work	20h												
	Testing Engineer	*20 hrs*		Work	20h												
	Regulatory Specialist	*20 hrs*		Work	20h												
	Supply Chain Engineer	*20 hrs*		Work	20h												
	Contract Manager	*20 hrs*		Work	20h												
	Operations Engineer	*20 hrs*		Work	20h												
4	Monitor, Control & Manage Project	510 hrs	255 days	Work	46h	42h	44h	46h	40h	46h	44h	42h	46h	40h	42h	32h	
	Project Manager	*510 hrs*		Work	46h	42h	44h	46h	40h	46h	44h	42h	46h	40h	42h	32h	
5	**Initial Design**	**504 hrs**	**45 days**	Work	158.4h	268.8h	76.8h										
6	Gather Requirements	120 hrs	15 days	Work	120h												
	Project Manager	*60 hrs*		Work	60h												
	Design Engineer	*60 hrs*		Work	60h												
7	Design Prototype	320 hrs	25 days	Work	38.4h	268.8h	12.8h										
	Design Engineer	*160 hrs*		Work	19.2h	134.4h	6.4h										
	Operations Engineer	*160 hrs*		Work	19.2h	134.4h	6.4h										
8	Validate Design with Customer	64 hrs	5 days	Work			64h										
	Design Engineer	*32 hrs*		Work			32h										
	Contract Manager	*32 hrs*		Work			32h										
9	**Prototyping**	**640 hrs**	**50 days**	Work			204.8h	294.4h	140.8h								
10	Build Prototype	320 hrs	25 days	Work			204.8h	115.2h									
	Design Engineer	*160 hrs*		Work			102.4h	57.6h									
	Operations Engineer	*160 hrs*		Work			102.4h	57.6h									
	Build Prototype	*1*		Work			0.64	0.36									
11	Test Prototype	128 hrs	10 days	Work				128h									
	Testing Engineer	*64 hrs*		Work				64h									
	Operations Engineer	*64 hrs*		Work				64h									
	Test Prototype	*1*		Work				1									
12	Revise / Test Prototype	192 hrs	15 days	Work				51.2h	140.8h								
	Testing Engineer	*96 hrs*		Work				25.6h	70.4h								

Resource Spreadsheet 2/2

	Operations Engineer	*96 hrs*		Work				25.6h	70.4h								
13	**Finalize Design**	**256 hrs**	**15 days**	Work					172.8h	83.2h							
14	Finalize Design	192 hrs	10 days	Work					172.8h	19.2h							
	Design Engineer	*64 hrs*		Work					57.6h	6.4h							
	Contract Manager	*64 hrs*		Work					57.6h	6.4h							
	Operations Engineer	*64 hrs*		Work					57.6h	6.4h							
15	Validate Design with Customer	64 hrs	5 days	Work						64h							
	Contract Manager	*32 hrs*		Work						32h							
	Operations Engineer	*32 hrs*		Work						32h							
16	**Regulatory Assistance**	**320 hrs**	**135 days**	Work			64h	16h		28h	88h	84h	40h				
17	Prepare Application	80 hrs	20 days	Work			64h	16h									
	Regulatory Specialist	*80 hrs*		Work			64h	16h									
18	**Submit Application**	**240 hrs**	**60 days**	Work						28h	88h	84h	40h				
	Regulatory Specialist	*240 hrs*		Work						28h	88h	84h	40h				
19	*Receive Approval*	0 hrs	60 days	Work													
20	**Procurement**	**204 hrs**	**105 days**	Work			32h	46h	50.8h	56.8h	17.6h	0.8h					
21	Select Suppliers	100 hrs	50 days	Work			32h	46h	22h								
	Supply Chain Engineer	*100 hrs*		Work			32h	46h	22h								
22	Negotiate/ Sign Agreements	80 hrs	25 days	Work					28.8h	51.2h							
	Supply Chain Engineer	*40 hrs*		Work					14.4h	25.6h							
	Contract Manager	*40 hrs*		Work					14.4h	25.6h							
23	Procure Equipment/Materials	24 hrs	30 days	Work						5.6h	17.6h	0.8h					
	Supply Chain Engineer	*24 hrs*		Work						5.6h	17.6h	0.8h					
	Procure Equipment/ Material	*1*		Work						0.23	0.73	0.03					
24	**Launch**	**620 hrs**	**70 days**	Work									104h	160h	184h	172h	
25	Ramp-up for Production	400 hrs	50 days	Work									104h	160h	136h		
	Project Manager	*200 hrs*		Work									52h	80h	68h		
	Operations Engineer	*200 hrs*		Work									52h	80h	68h		
26	Perform Production Testing	180 hrs	15 days	Work											48h	132h	
	Project Manager	*60 hrs*		Work											16h	44h	
	Testing Engineer	*60 hrs*		Work											16h	44h	
	Operations Engineer	*60 hrs*		Work											16h	44h	
27	Launch	40 hrs	5 days	Work												40h	
	Project Manager	*20 hrs*		Work												20h	
	Operations Engineer	*20 hrs*		Work												20h	
28	Finish	0 hrs	0 days	Work													

Bottom-up Cost Estimation

ID	WBS	Task Name	Cost
0	**0**	**Zulu Project**	**$294,050.00**
1	1	Start	$0.00
2	**2**	**Project Management**	**$47,250.00**
3	2.1	Kickoff Project / Develop Project Plan	$9,000.00
4	2.2	Monitor, Control & Manage Project	$38,250.00
5	**3**	**Initial Design**	**$37,800.00**
6	3.1	Gather Requirements	$9,000.00
7	3.2	Design Prototype	$24,000.00
8	3.3	Validate Design with Customer	$4,800.00
9	**4**	**Prototyping**	**$69,000.00**
10	4.1	Build Prototype	$44,000.00
11	4.2	Test Prototype	$10,600.00
12	4.3	Revise / Test Prototype	$14,400.00
13	**5**	**Finalize Design**	**$19,200.00**
14	5.1	Finalize Design	$14,400.00
15	5.2	Validate Design with Customer	$4,800.00
16	**6**	**Regulatory Assistance**	**$9,000.00**
17	6.1	Prepare Application	$6,000.00
18	6.2	Submit Application	$3,000.00
19	6.3	Receive Approval	$0.00
20	**7**	**Procurement**	**$65,300.00**
21	7.1	Select Suppliers	$7,500.00
22	7.2	Negotiate/ Sign Agreements	$6,000.00
23	7.3	Procure Equipment/Materials	$51,800.00
24	**8**	**Launch**	**$46,500.00**
25	8.1	Ramp-up for Production	$30,000.00
26	8.2	Perform Production Testing	$13,500.00
27	8.3	Launch	$3,000.00
28	8.4	Finish	$0.00

Cumulative Cost