Description of Simulation Work Resources

Report

Simulation

|  |  |
| --- | --- |
| **Start** | 1/1/2022 09:00:00 |
| **End** | 12/31/2022 18:00:00 |
| **Duration** | 364d.09:00:00 |

Work Resources Used

| # | Resource | Availability Time | Usage Time | Utilization, % | Cost,  TEUR | Queue Properties | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Avg Number of Task Inst. | Max Number of Task Inst. | Avg Length | Max Length | Avg Time Spent by Task Inst. in Queue | Queue Length at the End of Simulation |
| 1. | Accountant | 262d.00:00:00 | 4d.13:50:00 | 1.75 | 10.98 | 0 | 2 | 0:02:01 | 2:12:57 | 3:21:46 | 0:00:00 |
| 2. | Computer | 10230d.12:00:00 | 144d.15:10:00 | 1.41 | 138.85 | 0 | 0 | 0:00:00 | 0:00:00 | 0:00:00 | 15d.04:34:22 |
| 3. | Customer | 436d.16:00:00 | 25d.03:30:00 | 5.76 | 0 | 1 | 5 | 0:47:43 | 11:09:28 | 14:10:12 | 0:00:00 |
| 4. | Design Engineer | 174d.16:00:00 | 6:00:00 | 0.14 | 0.6 | 0 | 0 | 0:00:00 | 0:00:00 |  | 0:00:00 |
| 5. | Director | 87d.08:00:00 | 4d.23:30:00 | 5.7 | 59.75 | 0 | 4 | 0:04:18 | 8:18:53 | 12:59:39 | 0:00:00 |
| 6. | Director of Operations | 87d.08:00:00 | 20d.10:20:00 | 23.39 | 147.1 | 0 | 5 | 0:28:09 | 10:20:43 | 10:07:31 | 0:00:00 |
| 7. | Head of Engineering Department | 87d.08:00:00 | 1d.20:20:00 | 2.12 | 8.87 | 0 | 1 | 0:02:58 | 2:47:43 | 14:18:53 | 0:00:00 |
| 8. | Head of Installation Site | 87d.08:00:00 | 7d.00:30:00 | 8.04 | 33.7 | 0 | 2 | 0:22:52 | 9:21:09 | 18:59:03 | 0:00:00 |
| 9. | Head of Procurement Department | 87d.08:00:00 | 10d.04:30:00 | 11.67 | 48.9 | 0 | 3 | 0:09:47 | 8:18:53 | 8:14:01 | 0:00:00 |
| 10. | Installer | 174d.16:00:00 | 80d.23:50:00 | 46.37 | 97.19 | 1 | 4 | 17:50:53 | 4d.23:04:27 | 3d.04:27:18 | 1d.08:19:45 |
| 11. | Instrument | 4384d.12:00:00 | 509d.23:00:00 | 11.63 | 428.37 | 0 | 9 | 0:56:53 | 6d.12:56:03 | 1:50:40 | 10d.09:49:33 |
| 12. | Lawyer | 87d.08:00:00 | 16d.00:40:00 | 18.35 | 50.01 | 0 | 4 | 0:35:04 | 13:00:27 | 17:28:36 | 1:00:09 |
| 13. | Leading Engineer | 174d.16:00:00 | 161d.12:30:00 | 92.47 | 465.18 | 11 | 25 | 8d.11:45:06 | 18d.22:22:59 | 9d.19:20:48 | 16d.11:21:31 |
| 14. | Loader | 365d.09:00:00 | 2d.08:30:00 | 0.64 | 1.13 | 0 | 1 | 0:00:02 | 1:41:56 | 0:06:49 | 0:00:00 |
| 15. | Procurement Manager | 174d.16:00:00 | 29d.06:20:00 | 16.75 | 52.68 | 0 | 3 | 0:43:07 | 10:26:56 | 8:02:40 | 1:00:09 |
| 16. | Project Manager | 174d.16:00:00 | 53d.10:30:00 | 30.59 | 230.85 | 1 | 6 | 1:28:08 | 15:06:09 | 9:52:11 | 0:08:11 |
| 17. | Regulatory bodies | 87d.08:00:00 | 5d.09:50:00 | 6.19 | 0 | 0 | 2 | 0:17:49 | 9:21:09 | 15:17:54 | 0:00:00 |
| 18. | Subcontractor | 174d.16:00:00 | 84d.00:50:00 | 48.11 | 342.86 | 1 | 3 | 17:40:52 | 4d.23:22:15 | 2d.01:58:01 | 1d.08:28:52 |
| 19. | Supplier | 524d.00:00:00 | 12d.01:40:00 | 2.3 | 0 | 0 | 3 | 0:18:42 | 9:16:09 | 9:50:32 | 1:00:09 |
| 20. | Technician | 174d.16:00:00 | 111d.05:10:00 | 63.67 | 266.92 | 2 | 8 | 23:49:46 | 6d.09:29:42 | 2d.18:15:25 | 2d.04:53:06 |
| 21. | Warehouseman | 174d.16:00:00 | 6d.04:20:00 | 3.54 | 4.45 | 0 | 3 | 0:05:21 | 3:52:25 | 6:00:50 | 0:00:00 |

Insufficient Resources

1. Leading Engineer

|  |  |
| --- | --- |
| **Overload** | 3d.07:51:31 |

Utilization of Resource Instances

| Resource Instance | Percentage Utilization |
| --- | --- |
| Ведущий инженер, Смена 1, экз.№1 | 94.8 |
| Ведущий инженер, Смена 1, экз.№2 | 89.46 |

Number of Additional Instances Required – 1

with the following working conditions:

|  |  |
| --- | --- |
| **Number of working hours per day** | 8.0000 |
| **Number of working days per month** | 20.75 |