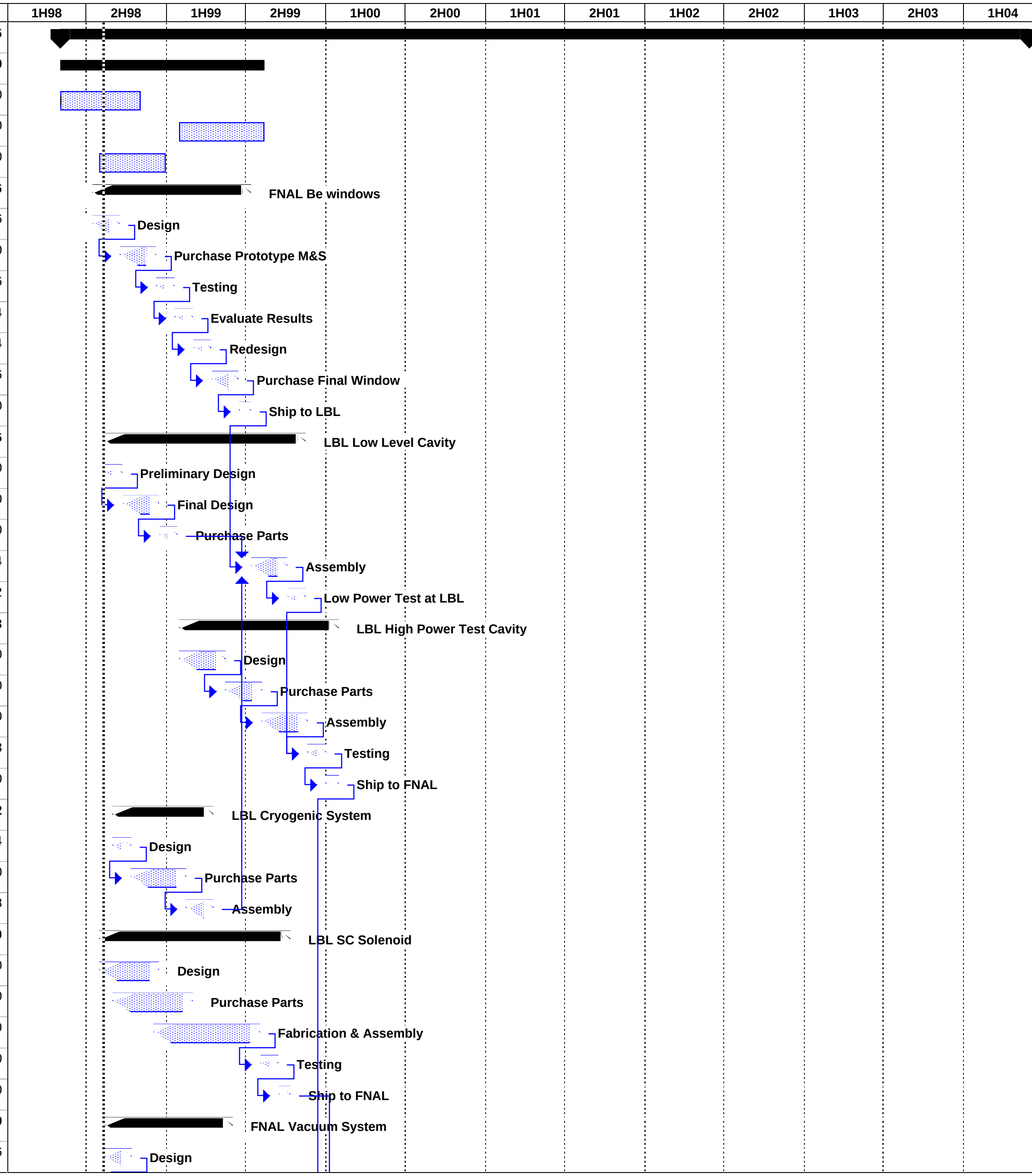
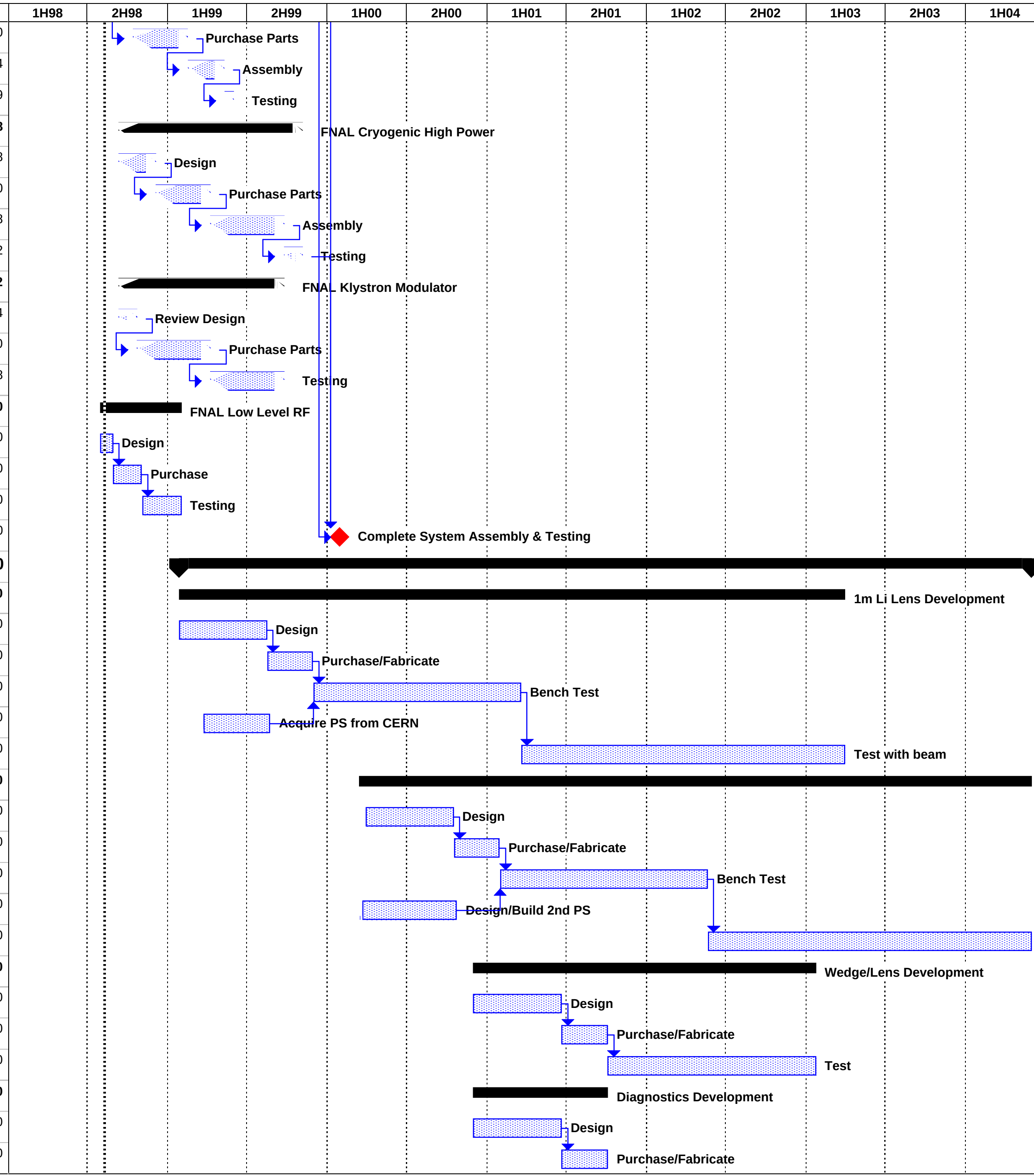
| ID | Indicators | Task Name | Duration | Cost |
|---|---|---|---|---|
| 1 | | **Muon Cooling-- R&D** | 1587 days | $37,075,996 |
| 2 | | **Material Properties Testing** | 333 days | $67,000 |
| 3 | | BNL RF Test 77 Deg K | 132 days | $30,000 |
| 4 | | BNL RF Test 20 Deg K | 138 days | $30,000 |
| 5 | | Mississippi DC Testing 77 deg K | 108 days | $7,000 |
| 6 | | **FNAL Be windows** | 260 days | $122,656 |
| 7 | | Design | 45 days | $19,026 |
| 8 | | Purchase Prototype M&S | 60 days | $35,000 |
| 9 | | Testing | 30 days | $19,236 |
| 10 | | Evaluate Results | 30 days | $12,684 |
| 11 | | Redesign | 30 days | $12,684 |
| 12 | | Purchase Final Window | 45 days | $19,026 |
| 13 | | Ship to LBL | 20 days | $5,000 |
| 14 | | **LBL Low Level Cavity** | 330 days | $104,256 |
| 15 | | Preliminary Design | 30 days | $14,400 |
| 16 | | Final Design | 60 days | $28,800 |
| 17 | | Purchase Parts | 30 days | $27,000 |
| 18 | | Assembly | 60 days | $13,104 |
| 19 | | Low Power Test at LBL | 30 days | $20,952 |
| 20 | | **LBL High Power Test Cavity** | 260 days | $105,333 |
| 21 | | Design | 75 days | $36,000 |
| 22 | | Purchase Parts | 60 days | $27,000 |
| 23 | | Assembly | 75 days | $16,380 |
| 24 | | Testing | 30 days | $20,953 |
| 25 | | Ship to FNAL | 20 days | $5,000 |
| 26 | | **LBL Cryogenic System** | 165 days | $27,512 |
| 27 | | Design | 30 days | $12,684 |
| 28 | | Purchase Parts | 90 days | $5,000 |
| 29 | | Assembly | 45 days | $9,828 |
| 30 | | **LBL SC Solenoid** | 313 days | $485,000 |
| 31 | | Design | 98 days | $40,000 |
| 32 | | Purchase Parts | 131 days | $50,000 |
| 33 | | Fabrication & Assembly | 175 days | $350,000 |
| 34 | | Testing | 30 days | $40,000 |
| 35 | | Ship to FNAL | 20 days | $5,000 |
| 36 | | **FNAL Vacuum System** | 210 days | $56,749 |
| 37 | | Design | 45 days | $19,026 |



| ID | | Task Name | Duration | Cost |
|---|---|---|---|---|
| 38 | | Purchase Parts | 90 days | $15,000 |
| 39 | | Assembly | 60 days | $13,104 |
| 40 | | Testing | 15 days | $9,619 |
| 41 | | **FNAL Cryogenic High Power** | **300 days** | **$96,098** |
| 42 | | Design | 60 days | $25,368 |
| 43 | | Purchase Parts | 90 days | $20,000 |
| 44 | | Assembly | 120 days | $26,208 |
| 45 | | Testing | 30 days | $24,522 |
| 46 | | **FNAL Klystron Modulator** | **270 days** | **$286,392** |
| 47 | | Review Design | 30 days | $12,684 |
| 48 | | Purchase Parts | 120 days | $247,500 |
| 49 | | Testing | 120 days | $26,208 |
| 50 | | **FNAL Low Level RF** | **133 days** | **$25,000** |
| 51 | | Design | 20 days | $5,000 |
| 52 | | Purchase | 48 days | $15,000 |
| 53 | | Testing | 65 days | $5,000 |
| 54 | | Complete System Assembly & Testir | 0 days | $0 |
| 56 | | **Lithium Lens Development** | **1395 days** | **$4,900,000** |
| 57 | | **1m Li Lens Development** | **1090 days** | **$1,200,000** |
| 58 | | Design | 145 days | $200,000 |
| 59 | | Purchase/Fabricate | 75 days | $500,000 |
| 60 | | Bench Test | 340 days | $200,000 |
| 61 | | Acquire PS from CERN | 110 days | $100,000 |
| 62 | | Test with beam | 530 days | $200,000 |
| 64 | | **2nd Li Lens Development** | **1100 days** | **$2,300,000** |
| 65 | | Design | 145 days | $150,000 |
| 66 | | Purchase/Fabricate | 75 days | $600,000 |
| 67 | | Bench Test | 340 days | $600,000 |
| 68 | | Design/Build 2nd PS | 155 days | $700,000 |
| 69 | | Test with beam | 530 days | $250,000 |
| 70 | | **Wedge/Lens Development** | **560 days** | **$1,000,000** |
| 71 | | Design | 145 days | $150,000 |
| 72 | | Purchase/Fabricate | 75 days | $600,000 |
| 73 | | Test | 340 days | $250,000 |
| 74 | | **Diagnostics Development** | **220 days** | **$400,000** |
| 75 | | Design | 145 days | $200,000 |
| 76 | | Purchase/Fabricate | 75 days | $200,000 |



| ID | | Task Name | Duration | Cost |
|---|---|---|---|---|
| 77 | | **Alternating Solenoid Channel** | **848 days** | **$16,000,000** |
| 78 | | **SC Solenoids** | **803 days** | **$9,300,000** |
| 79 | | Design | 327 days | $1,100,000 |
| 80 | | Purchase/Fabricate | 326 days | $6,500,000 |
| 81 | | Assemble | 75 days | $1,500,000 |
| 82 | | Test | 75 days | $200,000 |
| 83 | | **Acceleration Cavities** | **543 days** | **$900,000** |
| 84 | | Design | 132 days | $100,000 |
| 85 | | Purchase/Fabricate | 261 days | $500,000 |
| 86 | | Assemble | 75 days | $200,000 |
| 87 | | Test | 75 days | $100,000 |
| 88 | | **RF Power** | **543 days** | **$5,000,000** |
| 89 | | Design | 132 days | $100,000 |
| 90 | | Purchase/Fabricate | 261 days | $4,000,000 |
| 91 | | Assemble | 75 days | $800,000 |
| 92 | | **Test** | **75 days** | **$100,000** |
| 93 | | **Liquid Hydrogen** | **523 days** | **$800,000** |
| 94 | | Design | 132 days | $100,000 |
| 95 | | Purchase/Fabricate | 216 days | $400,000 |
| 96 | | Assemble | 75 days | $200,000 |
| 97 | | Test | 75 days | $100,000 |
| 98 | | Beam Test | 0 days | $0 |
| 99 | | **Cooling Wedge Prototype** | **1087 days** | **$5,400,000** |
| 100 | | Design | 284 days | $200,000 |
| 101 | | Purchase/Fabricate | 521 days | $4,000,000 |
| 102 | | Bench Test | 151 days | $200,000 |
| 103 | | Test in Muon Beam | 131 days | $1,000,000 |
| 104 | | **Cooling Instrumentation** | **1043 days** | **$9,400,000** |
| 105 | | Design & Prototype | 415 days | $400,000 |
| 106 | | Solenoid Fabricatation | 521 days | $2,000,000 |
| 107 | | Time Cavities Fabricatation | 521 days | $1,000,000 |
| 108 | | System Assembly | 521 days | $5,000,000 |
| 109 | | Bench Test | 151 days | $500,000 |
| 110 | | Test in Muon Beam | 131 days | $500,000 |