| ID | WBS | Name | Start | Finish | Per_Comp |
|---|---|---|---|---|---|
| 1 | 1.1 | ILCTA control | 10/2/2006 | 9/29/2009 | 2% |
| 2 | 1.1.1 | ILCTA control design | 10/2/2006 | 1/25/2008 | 16% |
| 3 | 1.1.1.1 | Prototype - A0 Photo Injector | 10/2/2006 | 1/25/2008 | 33% |
| 4 | 1.1.1.1.1 | Develop prototype A0 3.9 Ghz | 10/2/2006 | 7/24/2007 | 44% |
| 5 | 1.1.1.1.2 | OTR Server | 10/2/2006 | 10/2/2006 | 0% |
| 6 | 1.1.1.1.2.1 | Package and put in fnkits | 10/2/2006 | 10/2/2006 | 0% |
| 7 | 1.1.1.1.3 | Integrate prototype 3.9 GHz photoinjector | 10/2/2006 | 10/2/2006 | 0% |
| 8 | 1.1.1.1.3.1 | Integrate hardware | 10/2/2006 | 10/2/2006 | 0% |
| 9 | 1.1.1.1.3.2 | Integrate DOOCS | 10/2/2006 | 10/2/2006 | 0% |
| 10 | 1.1.1.1.3.3 | Integration and demonstration of control sy | 10/2/2006 | 10/2/2006 | 0% |
| 11 | 1.1.1.1.4 | Integrate A0 1.3GHz Photoinjector | 10/15/2007 | 11/12/2007 | 0% |
| 12 | 1.1.1.1.5 | Design integrated A0 control system | 10/2/2006 | 10/2/2006 | 0% |
| 13 | 1.1.1.1.5.1 | Archiving | 10/2/2006 | 10/2/2006 | 0% |
| 14 | 1.1.1.1.5.2 | Alarming | 10/2/2006 | 10/2/2006 | 0% |
| 15 | 1.1.1.1.5.3 | Save/restore | 10/2/2006 | 10/2/2006 | 0% |
| 16 | 1.1.1.1.5.4 | Data retrieval/analysis | 10/2/2006 | 10/2/2006 | 0% |
| 17 | 1.1.1.1.5.5 | Configuration management | 10/2/2006 | 10/2/2006 | 0% |
| 18 | 1.1.1.1.5.6 | A0 Controls Design Document complete | 10/2/2006 | 10/2/2006 | 0% |
| 19 | 1.1.1.1.6 | A0 experiment begins | 7/16/2007 | 7/16/2007 | 0% |
| 20 | 1.1.1.1.7 | Integrate 1.3 GHz photoinjector | 11/19/2007 | 12/19/2007 | 0% |
| 21 | 1.1.1.1.8 | Move A0 1.3 & 3.9 GHz Photoinjector to NI | 1/11/2008 | 1/25/2008 | 0% |
| 22 | 1.1.1.2 | Design HTS control for  Meson Lab | 10/2/2006 | 5/11/2007 | 0% |
| 23 | 1.1.1.2.1 | Document HTS control requirements and s | 10/2/2006 | 10/2/2006 | 0% |
| 24 | 1.1.1.2.2 | Design HTS control system hardware | 10/2/2006 | 5/11/2007 | 0% |
| 25 | 1.1.1.2.3 | Design HTS control software system | 10/2/2006 | 10/2/2006 | 0% |
| 26 | 1.1.1.2.3.1 | Design Remote Operations from MCR | 10/2/2006 | 10/2/2006 | 0% |
| 27 | 1.1.1.3 | Design - NML control | 10/2/2006 | 3/2/2007 | 0% |
| 28 | 1.1.1.3.1 | Define NML system requirements | 10/2/2006 | 3/2/2007 | 0% |
| 29 | 1.1.1.3.1.1 | Evaluate NML control prototype | 10/2/2006 | 3/2/2007 | 0% |
| 30 | 1.1.1.3.1.2 | Evaluate NML hardware options | 10/2/2006 | 10/2/2006 | 0% |
| 31 | 1.1.1.3.1.2. | HITECH | 10/2/2006 | 10/2/2006 | 0% |
| 32 | 1.1.1.3.1.2. | CosyLab | 10/2/2006 | 10/2/2006 | 0% |
| 33 | 1.1.1.3.1.2. | DAQ harware | 10/2/2006 | 10/2/2006 | 0% |
| 34 | 1.1.1.3.1.3 | Define hardware layout | 10/2/2006 | 10/2/2006 | 0% |
| 35 | 1.1.1.3.1.4 | Document NML control system requiremen | 10/2/2006 | 10/2/2006 | 0% |
| 36 | 1.1.1.3.2 | Design hardware architecture | 10/2/2006 | 10/2/2006 | 0% |
| 37 | 1.1.1.3.2.1 | Controls computing | 10/2/2006 | 10/2/2006 | 0% |
| 38 | 1.1.1.3.2.1. | Networking | 10/2/2006 | 10/2/2006 | 0% |
| 39 | 1.1.1.3.2.1. | Server | 10/2/2006 | 10/2/2006 | 0% |
| 40 | 1.1.1.3.2.1. | Console systems | 10/2/2006 | 10/2/2006 | 0% |
| 41 | 1.1.1.3.2.2 | Controls electronics | 10/2/2006 | 10/2/2006 | 0% |
| 42 | 1.1.1.3.2.3 | Instrumentation interface | 10/2/2006 | 10/2/2006 | 0% |
| 43 | 1.1.1.3.2.4 | LLRF interface | 10/2/2006 | 10/2/2006 | 0% |
| 44 | 1.1.1.3.2.5 | Safety system interface | 10/2/2006 | 10/2/2006 | 0% |
| 45 | 1.1.1.3.2.6 | Document timing system - slow timing/ever | 10/2/2006 | 10/2/2006 | 0% |
| 46 | 1.1.1.3.2.7 | Document phase referencing (w/LLRF) | 10/2/2006 | 10/2/2006 | 0% |
| 47 | 1.1.1.3.2.8 | Design Timestamping standard | 10/2/2006 | 10/2/2006 | 0% |
| 48 | 1.1.1.3.2.9 | Document hardware architecture | 10/2/2006 | 10/2/2006 | 0% |
| 49 | 1.1.1.3.3 | Design software architecture | 10/2/2006 | 10/2/2006 | 0% |
| 50 | 1.1.1.3.3.1 | Design to combine DOOCS, EPICS, Labvi | 10/2/2006 | 10/2/2006 | 0% |
| 51 | 1.1.1.3.3.2 | Archiving design | 10/2/2006 | 10/2/2006 | 0% |

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|---|---|---|---|---|---|
| 52 | 1.1.1.3.3.3 | Alarm design | 10/2/2006 | 10/2/2006 | 0% |
| 53 | 1.1.1.3.3.4 | DAQ design | 10/2/2006 | 10/2/2006 | 0% |
| 54 | 1.1.1.3.3.5 | Diagnostic tools | 10/2/2006 | 10/2/2006 | 0% |
| 55 | 1.1.1.3.3.6 | Design EPICS enabled hardware | 10/2/2006 | 10/2/2006 | 0% |
| 56 | 1.1.1.3.3.7 | Define display system strategy | 10/2/2006 | 10/2/2006 | 0% |
| 57 | 1.1.1.3.3.8 | Document software architecture | 10/2/2006 | 10/2/2006 | 0% |
| 58 | 1.1.1.3.4 | Design NML control system HW/SW interfa | 10/2/2006 | 10/2/2006 | 0% |
| 59 | 1.1.1.3.4.1 | Interface to instrumentation | 10/2/2006 | 10/2/2006 | 0% |
| 60 | 1.1.1.3.4.2 | Interface to HLRF | 10/2/2006 | 10/2/2006 | 0% |
| 61 | 1.1.1.3.4.3 | Interface to LLRF | 10/2/2006 | 10/2/2006 | 0% |
| 62 | 1.1.1.3.4.4 | Interface to Machine safety system | 10/2/2006 | 10/2/2006 | 0% |
| 63 | 1.1.1.3.4.5 | Interface to Human safety system | 10/2/2006 | 10/2/2006 | 0% |
| 64 | 1.1.1.3.4.6 | Interface to Cryo system | 10/2/2006 | 10/2/2006 | 0% |
| 65 | 1.1.1.3.4.7 | Interface to Piezo Tuner | 10/2/2006 | 10/2/2006 | 0% |
| 66 | 1.1.1.3.4.8 | Interface of EPICS to PLCs | 10/2/2006 | 10/2/2006 | 0% |
| 67 | 1.1.1.3.5 | Procure and establish NML test stand | 10/2/2006 | 10/2/2006 | 0% |
| 68 | 1.1.2 | ILCTA control implementation | 10/2/2006 | 9/17/2007 | 0% |
| 69 | 1.1.2.1 | Integrate system - VTS control | 10/2/2006 | 10/2/2006 | 0% |
| 70 | 1.1.2.1.1 | Network installations & IP/MAC setup | 10/2/2006 | 10/2/2006 | 0% |
| 71 | 1.1.2.1.2 | Implement software | 10/2/2006 | 10/2/2006 | 0% |
| 72 | 1.1.2.1.2.1 | Deploy Jlab Labview system | 10/2/2006 | 10/2/2006 | 0% |
| 73 | 1.1.2.1.2.2 | Interface to cryo cavity data management s | 10/2/2006 | 10/2/2006 | 0% |
| 74 | 1.1.2.1.2.3 | Interface to electronic logbook | 10/2/2006 | 10/2/2006 | 0% |
| 75 | 1.1.2.1.3 | Integrate firmware | 10/2/2006 | 10/2/2006 | 0% |
| 76 | 1.1.2.1.4 | Integrate VTS control | 10/2/2006 | 10/2/2006 | 0% |
| 77 | 1.1.2.2 | Integrate system - HTS control | 10/2/2006 | 10/3/2006 | 0% |
| 78 | 1.1.2.2.1 | Network installations & IP/MAC setup | 10/2/2006 | 10/2/2006 | 0% |
| 79 | 1.1.2.2.2 | Implement software | 10/2/2006 | 10/3/2006 | 0% |
| 80 | 1.1.2.2.2.1 | Implement EPICS/DOOCS components | 10/2/2006 | 10/3/2006 | 0% |
| 81 | 1.1.2.2.2.1. | Implement DOOCS/EPICS interface | 10/2/2006 | 10/2/2006 | 0% |
| 82 | 1.1.2.2.2.1. | Deploy "standard" version of archiver | 10/2/2006 | 10/2/2006 | 0% |
| 83 | 1.1.2.2.2.1. | Deploy/configure DOOCS2EPICS for archi | 10/3/2006 | 10/3/2006 | 0% |
| 84 | 1.1.2.2.2.1. | Deploy alarming | 10/2/2006 | 10/2/2006 | 0% |
| 85 | 1.1.2.2.2.1. | Deploy DOOCS/EPICS interface to integra | 10/3/2006 | 10/3/2006 | 0% |
| 86 | 1.1.2.2.2.1. | Remove ACNET console | 10/2/2006 | 10/2/2006 | 0% |
| 87 | 1.1.2.2.2.1. | Implement datalog devices | 10/2/2006 | 10/2/2006 | 0% |
| 88 | 1.1.2.2.2.1. | Configure archiver with appropriate devices | 10/2/2006 | 10/2/2006 | 0% |
| 89 | 1.1.2.2.2.1. | Replace SPARC Board with Linux | 10/2/2006 | 10/2/2006 | 0% |
| 90 | 1.1.2.2.2.1. | Deploy cryogenics logging facility to EPICS | 10/2/2006 | 10/2/2006 | 0% |
| 91 | 1.1.2.2.2.2 | Implemet interface to Cryo Cavity data mar | 10/2/2006 | 10/2/2006 | 0% |
| 92 | 1.1.2.2.2.3 | Implement Coupler Conditioning Sequence | 10/2/2006 | 10/2/2006 | 0% |
| 93 | 1.1.2.2.2.4 | Implement control of slow tuner through EP | 10/2/2006 | 10/2/2006 | 0% |
| 94 | 1.1.2.2.2.5 | Implement PC interface to network analyze | 10/2/2006 | 10/2/2006 | 0% |
| 95 | 1.1.2.2.2.6 | Implement calibrated Waveform displays | 10/2/2006 | 10/2/2006 | 0% |
| 96 | 1.1.2.2.2.7 | Implement parameter pages | 10/2/2006 | 10/2/2006 | 0% |
| 97 | 1.1.2.2.2.8 | Automation of various tasks | 10/2/2006 | 10/2/2006 | 0% |
| 98 | 1.1.2.2.2.9 | Configure vacuum and temperatures into P | 10/2/2006 | 10/2/2006 | 0% |
| 99 | 1.1.2.2.2.1( | Data retrieval/analysis | 10/2/2006 | 10/2/2006 | 0% |
| 100 | 1.1.2.2.2.1 | Implement Remote Operations from MCR | 10/2/2006 | 10/2/2006 | 0% |
| 101 | 1.1.2.2.2.1: | Version and tag PLC IOC | 10/2/2006 | 10/2/2006 | 0% |
| 102 | 1.1.2.2.2.1: | Upgrade DOOCS server for new LLRF firm | 10/2/2006 | 10/2/2006 | 0% |
| 103 | 1.1.2.2.2.1. | Deploy Irmis | 10/2/2006 | 10/2/2006 | 0% |

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|---|---|---|---|---|---|
| 104 | 1.1.2.2.3 | Integrate and test firmware | 10/2/2006 | 10/2/2006 | 0% |
| 105 | 1.1.2.2.4 | Integrate HTS control | 10/2/2006 | 10/2/2006 | 0% |
| 106 | 1.1.2.3 | Integrate A0 hardware | 10/2/2006 | 10/2/2006 | 0% |
| 107 | 1.1.2.3.1 | Procure A0 hardware | 10/2/2006 | 10/2/2006 | 0% |
| 108 | 1.1.2.3.2 | LLRF hardware | 10/2/2006 | 10/2/2006 | 0% |
| 109 | 1.1.2.3.3 | Controls crate and modules | 10/2/2006 | 10/2/2006 | 0% |
| 110 | 1.1.2.3.4 | Timing module | 10/2/2006 | 10/2/2006 | 0% |
| 111 | 1.1.2.3.5 | Wooster replacement | 10/2/2006 | 10/2/2006 | 0% |
| 112 | 1.1.2.3.6 | Spitefire 2 & 6 replacement? | 10/2/2006 | 10/2/2006 | 0% |
| 113 | 1.1.2.3.7 | Machine protection HW | 10/2/2006 | 10/2/2006 | 0% |
| 114 | 1.1.2.4 | Implement A0 specific software | 10/2/2006 | 10/3/2006 | 0% |
| 115 | 1.1.2.4.1 | Replace Wooster with Simcon | 10/3/2006 | 10/3/2006 | 0% |
| 116 | 1.1.2.4.2 | Understand doocs responsive issues | 10/2/2006 | 10/2/2006 | 0% |
| 117 | 1.1.2.4.3 | Update DDD displays to reflect current con | 10/2/2006 | 10/2/2006 | 0% |
| 118 | 1.1.2.4.4 | Convert phasescan to GPIB over eithernet | 10/2/2006 | 10/2/2006 | 0% |
| 119 | 1.1.2.4.5 | Make DOOCS degauss server to elimate M | 10/2/2006 | 10/2/2006 | 0% |
| 120 | 1.1.2.5 | Implement software NML | 10/2/2006 | 9/17/2007 | 0% |
| 121 | 1.1.2.5.1 | Integrate A0 SW at NML | 9/17/2007 | 9/17/2007 | 0% |
| 122 | 1.1.2.5.2 | Implement ATCA BPM interface | 10/2/2006 | 10/2/2006 | 0% |
| 123 | 1.1.2.5.3 | Implement LLRF interface? | 10/2/2006 | 10/2/2006 | 0% |
| 124 | 1.1.2.5.4 | Implement anything else? | 10/2/2006 | 10/2/2006 | 0% |
| 125 | 1.1.2.5.5 | Make OTR server robust | 10/2/2006 | 10/2/2006 | 0% |
| 126 | 1.1.2.5.6 | BPM server mods (alarming, scaling) | 10/2/2006 | 10/2/2006 | 0% |
| 127 | 1.1.2.5.7 | Multiknob support for magnet control | 10/2/2006 | 10/2/2006 | 0% |
| 128 | 1.1.2.5.8 | Obtain Linux X86 signoff from AD/LLRF | 10/2/2006 | 10/2/2006 | 0% |
| 129 | 1.1.2.5.9 | MATLAB 2006 stability issue (fixed by OS | 10/2/2006 | 10/2/2006 | 0% |
| 130 | 1.1.2.5.10 | Deploy integrated controls systems in desi | 10/2/2006 | 10/2/2006 | 0% |
| 131 | 1.1.2.5.11 | Implement application software layer (neec | 10/2/2006 | 10/2/2006 | 0% |
| 132 | 1.1.2.5.12 | Interface to cryo cavity data management s | 10/2/2006 | 10/2/2006 | 0% |
| 133 | 1.1.2.6 | Implement Phothocathode system | 10/2/2006 | 10/2/2006 | 0% |
| 134 | 1.1.2.6.1 | Photocathode Prep System Development | 10/2/2006 | 10/2/2006 | 0% |
| 135 | 1.1.2.6.2 | Photocathode System Development | 10/2/2006 | 10/2/2006 | 0% |
| 136 | 1.1.2.7 | Integrate system - NML | 10/2/2006 | 10/2/2006 | 0% |
| 137 | 1.1.2.7.1 | Network installations & IP/MAC setup | 10/2/2006 | 10/2/2006 | 0% |
| 138 | 1.1.2.7.2 | Implemanet firmware | 10/2/2006 | 10/2/2006 | 0% |
| 139 | 1.1.2.7.3 | Move CC2 to NML? | 10/2/2006 | 10/2/2006 | 0% |
| 140 | 1.1.2.7.4 | Integrate NML | 10/2/2006 | 10/2/2006 | 0% |
| 141 | 1.1.3 | Commissioning control system | 10/2/2006 | 10/2/2006 | 0% |
| 142 | 1.1.3.1 | Commission VTS control | 10/2/2006 | 10/2/2006 | 0% |
| 143 | 1.1.3.2 | Commission HTS control | 10/2/2006 | 10/2/2006 | 0% |
| 144 | 1.1.3.3 | Commission NML control | 10/2/2006 | 10/2/2006 | 0% |
| 145 | 1.1.4 | ILCTA control at NML operational | 12/3/2008 | 12/4/2008 | 0% |
| 146 | 1.1.5 | ILCTA control software infrastructure | 10/2/2006 | 10/15/2007 | 0% |
| 147 | 1.1.5.1 | ILCTA control software configuration mana | 10/2/2006 | 10/3/2006 | 0% |
| 148 | 1.1.5.1.1 | Code organization | 10/2/2006 | 10/2/2006 | 0% |
| 149 | 1.1.5.1.1.1 | Document EPICS code organization | 10/2/2006 | 10/2/2006 | 0% |
| 150 | 1.1.5.1.1.2 | Document DOOCS code organization | 10/2/2006 | 10/2/2006 | 0% |
| 151 | 1.1.5.1.2 | Build management | 10/2/2006 | 10/2/2006 | 0% |
| 152 | 1.1.5.1.2.1 | Retool EPICS build system | 10/2/2006 | 10/2/2006 | 0% |
| 153 | 1.1.5.1.2.2 | Stable integrated core software build proce | 10/2/2006 | 10/2/2006 | 0% |
| 154 | 1.1.5.1.3 | Release management | 10/2/2006 | 10/3/2006 | 0% |
| 155 | 1.1.5.1.3.1 | EPICS release management | 10/3/2006 | 10/3/2006 | 0% |

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|---|---|---|---|---|---|
| 156 | 1.1.5.1.3.2 | DOOCS release management | 10/2/2006 | 10/2/2006 | 0% |
| 157 | 1.1.5.1.4 | Interface management | 10/2/2006 | 10/2/2006 | 0% |
| 158 | 1.1.5.1.4.1 | Develop DOOCS/EPICS interface from DE | 10/2/2006 | 10/2/2006 | 0% |
| 159 | 1.1.5.1.4.2 | EPICS/Doocs interface management infras | 10/2/2006 | 10/2/2006 | 0% |
| 160 | 1.1.5.1.4.3 | Document EPICs/DOOCS/Labview/Matlab, | 10/2/2006 | 10/2/2006 | 0% |
| 161 | 1.1.5.2 | ILCTA control software environment | 10/2/2006 | 10/2/2006 | 0% |
| 162 | 1.1.5.2.1 | Maintain stable EPICS base environment | 10/2/2006 | 10/2/2006 | 0% |
| 163 | 1.1.5.2.1.1 | Package the archiver in a distributable forn | 10/2/2006 | 10/2/2006 | 0% |
| 164 | 1.1.5.2.1.2 | Wirte Archiving Strategy Document | 10/2/2006 | 10/2/2006 | 0% |
| 165 | 1.1.5.2.1.3 | Package/document IRMIS | 10/2/2006 | 10/2/2006 | 0% |
| 166 | 1.1.5.2.2 | Maintain stable DOOCS environment | 10/2/2006 | 10/2/2006 | 0% |
| 167 | 1.1.5.2.2.1 | Convert makefiles to gmake (from SunOS) | 10/2/2006 | 10/2/2006 | 0% |
| 168 | 1.1.5.2.2.2 | Feedback makefiles to DESY | 10/2/2006 | 10/2/2006 | 0% |
| 169 | 1.1.5.2.2.3 | Determine DOOCS/EPICS architecture aut | 10/2/2006 | 10/2/2006 | 0% |
| 170 | 1.1.5.2.2.4 | Remove hardcoded locations for MATLAB, | 10/2/2006 | 10/2/2006 | 0% |
| 171 | 1.1.5.2.2.5 | Document & code LD_LIBRARY_PATH ex | 10/2/2006 | 10/2/2006 | 0% |
| 172 | 1.1.5.2.3 | Maintain hardware compatibility | 10/2/2006 | 10/2/2006 | 0% |
| 173 | 1.1.5.2.3.1 | Evaluate ATCA | 10/2/2006 | 10/2/2006 | 0% |
| 174 | 1.1.5.2.3.2 | Evaluate timing module | 10/2/2006 | 10/2/2006 | 0% |
| 175 | 1.1.5.2.4 | Automate install/uninstall for Controls syste | 10/2/2006 | 10/2/2006 | 0% |
| 176 | 1.1.5.2.5 | Prepare for additional subnet | 10/2/2006 | 10/2/2006 | 0% |
| 177 | 1.1.5.2.6 | Document ILCTA Controls Software Enviro | 10/2/2006 | 10/2/2006 | 0% |
| 178 | 1.1.5.3 | ILCTA system adminstration | 10/2/2006 | 10/15/2007 | 0% |
| 179 | 1.1.5.3.1 | System Support | 10/2/2006 | 10/3/2006 | 0% |
| 180 | 1.1.5.3.1.1 | Plan/document cvs philosphy for admin are | 10/2/2006 | 10/2/2006 | 0% |
| 181 | 1.1.5.3.1.2 | Autodetect/log changes to system areas | 10/2/2006 | 10/2/2006 | 0% |
| 182 | 1.1.5.3.1.3 | Evaluate GIT | 10/2/2006 | 10/2/2006 | 0% |
| 183 | 1.1.5.3.1.4 | Switchover to subversion (GIT?) | 10/3/2006 | 10/3/2006 | 0% |
| 184 | 1.1.5.3.1.5 | Develop website outlaying architecture/acc | 10/2/2006 | 10/2/2006 | 0% |
| 185 | 1.1.5.3.1.6 | Backups | 10/2/2006 | 10/2/2006 | 0% |
| 186 | 1.1.5.3.1.7 | Move A0 machines behind firewall | 10/2/2006 | 10/2/2006 | 0% |
| 187 | 1.1.5.3.2 | Product Support | 10/2/2006 | 10/15/2007 | 0% |
| 188 | 1.1.5.3.2.1 | Develop workgroup for ILCTA | 10/2/2006 | 10/2/2006 | 0% |
| 189 | 1.1.5.3.2.2 | Configure VNC servers on all ILCTA mach | 10/3/2006 | 10/3/2006 | 0% |
| 190 | 1.1.5.3.2.3 | Setup webservers on ILCTA machines | 10/3/2006 | 10/3/2006 | 0% |
| 191 | 1.1.5.3.2.4 | Order/install Matlab floating license | 10/15/2007 | 10/15/2007 | 0% |
| 192 | 1.1.5.3.2.5 | Order/install LabView floating license | 10/2/2006 | 10/2/2006 | 0% |
| 193 | 1.1.5.3.2.6 | Create metaproduct for setup of controls sy | 10/2/2006 | 10/2/2006 | 0% |
| 194 | 1.1.5.3.3 | Kernel Support | 10/2/2006 | 10/4/2006 | 0% |
| 195 | 1.1.5.3.3.1 | Trace installed on all machines | 10/2/2006 | 10/2/2006 | 0% |
| 196 | 1.1.5.3.3.2 | Firewire installed on all machines | 10/2/2006 | 10/2/2006 | 0% |
| 197 | 1.1.5.3.3.3 | Upgrade all machines to LTS4 | 10/3/2006 | 10/3/2006 | 0% |
| 198 | 1.1.5.3.3.4 | Complete evaluation LTS 4.x | 10/4/2006 | 10/4/2006 | 0% |
| 199 | 1.1.5.3.3.5 | Define firewall settings | 10/2/2006 | 10/2/2006 | 0% |
| 200 | 1.1.5.3.4 | Order computers and monitors | 10/2/2006 | 10/2/2006 | 0% |
| 201 | 1.1.5.3.5 | Install/configure computers/monitors | 10/2/2006 | 10/2/2006 | 0% |
| 202 | 1.1.6 | ILCTA control technical management | 10/2/2006 | 9/29/2009 | 0% |
| 203 | 1.1.6.1 | ILCTA control requirements management | 10/2/2006 | 9/29/2009 | 0% |
| 204 | 1.1.6.2 | ILCTA control project management | 10/2/2006 | 9/29/2009 | 0% |
| 205 | 1.1.6.3 | Support project webpage & document serv | 10/2/2006 | 9/29/2009 | 0% |
| 206 | 1.1.7 | ILCTA control equipment purchases | 10/2/2006 | 9/29/2009 | 0% |
| 207 | 1.1.7.1 | FY07 Hardware purchases | 10/2/2006 | 9/29/2009 | 0% |

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|---|---|---|---|---|---|
| 208 | 1.1.7.2 | FY08 Hardware purchases | 10/2/2006 | 9/29/2009 | 0% |
| 209 | 1.1.7.3 | Misc software purchases | 10/2/2006 | 9/29/2009 | 0% |
| 210 | 1.2 | NML Major Milestones (Jerry Leibfritz) | 6/7/2007 | 4/9/2009 | 0% |
| 211 | 1.2.1 | Refrigerator #1 Operational | 6/7/2007 | 6/7/2007 | 0% |
| 212 | 1.2.2 | Building Infrastructure Complete | 8/7/2007 | 8/7/2007 | 0% |
| 213 | 1.2.3 | RF Systems Operational 5MW & CC2 | 9/7/2007 | 9/7/2007 | 0% |
| 214 | 1.2.4 | CCI2 Operational | 9/7/2007 | 9/7/2007 | 0% |
| 215 | 1.2.5 | 1st Cryomodule Delivery to NML | 11/7/2007 | 11/7/2007 | 0% |
| 216 | 1.2.6 | Begin 1st Cryomodule RF Test Warm | 2/8/2008 | 2/8/2008 | 0% |
| 217 | 1.2.7 | Begin Move of A0 Injector to NML | 2/8/2008 | 2/8/2008 | 0% |
| 218 | 1.2.8 | Cryo System Components in Place | 3/8/2008 | 3/8/2008 | 0% |
| 219 | 1.2.9 | Begin Cooldown of 1st Cryomodule | 5/8/2008 | 5/8/2008 | 0% |
| 220 | 1.2.10 | Refrigerator #2 Operational | 7/8/2008 | 7/8/2008 | 0% |
| 221 | 1.2.11 | 2nd Cryomodule Delivery to NML | 10/8/2008 | 10/8/2008 | 0% |
| 222 | 1.2.12 | Begin Civil Design of Build. Extension | 10/8/2008 | 10/8/2008 | 0% |
| 223 | 1.2.13 | First Beam | 12/8/2008 | 12/8/2008 | 0% |
| 224 | 1.2.14 | Order Cryoplant | 12/8/2008 | 12/8/2008 | 0% |
| 225 | 1.2.15 | 3rd Cryomodule Delivery to NML | 4/9/2009 | 4/9/2009 | 0% |

| Pred. | Resource_ | Duration |
|---|---|---|
| | | 760 days |
| | | 322 days |
| | | 322 days |
| | | 200 days |
| | Piccoli_FN | 1 day |
| | | 1 day |
| | | 1 day |
| | | 1 day |
| | | 1 day |
| | | 1 day |
| 20SF-5 days | | 20 days |
| | | 1 day |
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| | | 1 day |
| | | 1 day |
| | | 1 day |
| | | 1 day |
| | | 1 day |
| | | 1 day |
| 21SF-10 days | | 20 days |
| 217SF-10 days | | 10 days |
| | | 150 days |
| | Marsh_FN | 1 day |
| | Kucera_FN | 150 days |
| | | 1 day |
| | | 1 day |
| | | 100 days |
| | Krause_FN | 100 days |
| | | 100 days |
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| | | 238 days |
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| | 4Ruben_Fl | 1 day |
| | 4Ruben_Fl | 1 day |
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| | | 2 days |
| | | 1 day |
| | | 2 days |
| | | 2 days |
| | | 1 day |
| | Firbaugh_F | 1 day |
| 82 | Firbaugh_F | 1 day |
| | | 1 day |
| 67 | Nicklaus_F | 1 day |
| | | 1 day |
| | | 1 day |
| | Nicklaus_F | 1 day |
| | Rechenma | 1 day |
| | Sirotenko_ | 1 day |
| | | 1 day |
| | Nicklaus_F | 1 day |
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| | Savage_FM | 1 day |
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| | | 2 days |
| 128 | | 1 day |
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| | | 1 day |
| | Davidsaver | 1 day |
| | Davidsaver | 1 day |
| | | 238 days |
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| | Piccoli_FN. | 1 day |
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| 223SF-2 days | | 1 day |
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| | | 1 day |
| | | 258 days |
| | | 2 days |
| | Rechenma | 1 day |
| | Sieh_FNAI | 1 day |
| | Rechenma | 1 day |
| 182 | Rechenma | 1 day |
| | Votava_FN | 1 day |
| | Sieh_FNAI | 1 day |
| | Rechenma | 1 day |
| | | 258 days |
| | Sieh_FNAI | 1 day |
| 188 | Sieh_FNAI | 1 day |
| 188 | | 1 day |
| | | 1 day |
| | | 1 day |
| | | 1 day |
| | | 3 days |
| | Sieh_FNAI | 1 day |
| | Sieh_FNAI | 1 day |
| 195,196 | Sieh_FNAI | 1 day |
| 197 | Rechenma | 1 day |
| | Rechenma | 1 day |
| | | 1 day |
| | Kucera_FN | 1 day |
| | | 760 days |
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760 days
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