

LCLS Magnet Software Schedule

This page contains the Magnet Controls Software Schedule for the Injector and BC1.

Driver and Device Support					
Start Date: 01-Mar-06					
Bus Type*: *VME					
Module	I/O Type	Num Of Weeks	Date Needed	Status	Assigned To
Acromag IP-440	DI	1-hour	20-Mar-06	done	S. Allison
Acromag IP-445	DO	1-hour	20-Mar-06	done	S. Allison
Acromag AVME9670	IP Carrier	1-hour	20-Mar-06	done	S. Allison
Acromag IP-231	DAC	2-day	20-Mar-06	in progress	K. Luchini
Hytec IP-8402	DAC	2-days	20-Mar-06	in progress	K. Luchini
Hytec IP-8413	ADC	2-days	15-Jul-06	Not Avail	K. Luchini
BiRa VSAM 7305	Scanning ADC	2-day	20-Mar-06	done	K. Luchini

Record Support				
Start Date: 01-Mar-06				
Type	Num Of Weeks	Date Needed	Status	Assigned To
VME Card	1-hour	20-Mar-06	done	K. Luchini

EDM Display Mockups				
Start Date: 01-Mar-06				
Description	Num of Weeks	Date Needed	Status	Assigned To
Single Unit	2-days	17-Mar-06	in progress	K. Luchini
Module Diag	2-days	17-Mar-06	in progress	K. Luchini
XCOR Units	2-days	17-Mar-06	done	D. Rogind
All Units	2-days	17-Mar-06	in process	D. Rogind
Standardize	2-days	17-Mar-06	done	D. Rogind
Summary Status	2-days	02-Apr-06	TBD	TBA
Diagnostic	2-days	02-Apr-06	TBD	TBA
Calibratin Diag	2-days	01-Jul-06	TBD	TBA
History Plot	2-days	01-Jul-06	TBD	TBA
Correlation Plot	2-days	01-Jul-06	TBD	TBA
Strip Charts	2-days	01-Jul-06	TBD	TBA

EDM Displays				
Start Date: 01-Mar-06				
Description	Num of Weeks	Date Needed	Status	Assigned To

SCP Panels						
Start Date: 01-Jul-05						
Num of Weeks: 1						
Description	Micro	New/Existing	Filename	Date Needed	Status	Assigned To
Dev Micro Units	XL01	N	MGNTXL01.PNL	10-Sep-05	done	J. Paz
Dev Micro Units	XL02	N	MGNTXL02.PNL	10-Sep-05	done	J. Paz
Dev XL03 Units	XL03	N	MGNTXL03.PNL	10-Sep-05	done	J. Paz
Dev XL04 Units	XL04	N	MGNTXL04.PNL	10-Sep-05	done	J. Paz
Dev XL05 Units	XL05	N	MGNTXL05.PNL	10-Sep-05	done	J. Paz
Dev Template	XLXX	N	MGNTXLXX.PNL	10-Sep-05	done	J. Paz
Injector Units	IM20	N	MGNTIM20.PNL	03-Jan-06	done	J. Paz
Linac S21 Units	LM21	E	MGNTLM21.PNL	03-Jan-06		J. Paz

Linac S24 Units	LM24	E	MGNTLM24. PNL	03-Jan-06		J. Paz
Linac S25 Units	LM20	E	MGNTLM20. PNL	03-Jan-07		J. Paz
BSY Units	BM01	E	MGNTBM01. PNL	03-Jan-07		J. Paz

EPICS Database
Task
Add records needed by the complicated actions (standardization, calibration, degauss, trim) (inputs and output, including status).
Add more "control" records (ie, one bo record per applicable control bit in HSTA)
Add records that combine control records into HSTA and translate HSTA into control records.
Add records that combine the action statuses and various record severities into STAT.
Add logic needed for polarity.
Add diagnostic records (ie, compress records to keep the last x readbacks, etc)
Change to allow the same polynomial coefficients to be used in multiple devices.
Changes for magnets on a string (ie, no control available per device)
Feedback status and diagnostic records per device.
Control, status, and processing records per feedback loop.
Records to contain feedback loop incoming measurements.
Periodic update of alarm limits to catch when BDES is changed without a trim or perturb.
Records that perform actions on groups of devices ("ALL*" functionality).
Create better templates per device type (BEND, LGPS, COR,