NuMI Console Pages

Ops Tuning Guide

(updated 3/3/06)

NuMI on E Index Page

See separate description

Sequencer not yet in use (3/1/05)

PC:E <INDEX> Class: <AccelPrgmmer>

E EXPERIMENT-RELATED PROGRAMS

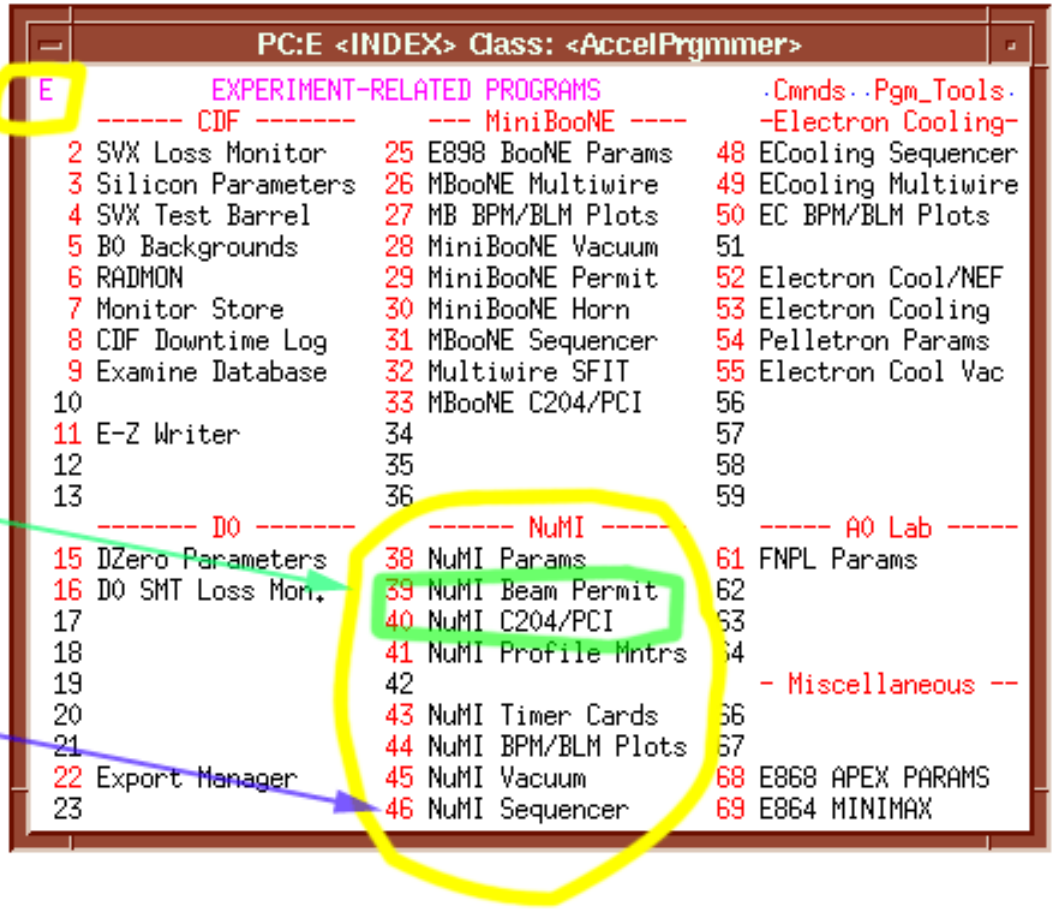
	------ CDF -------		--- MiniBooNE ----		-Electron Cooling-
2	SVX Loss Monitor	25	E898 BooNE Params	48	ECooling Sequencer
3	Silicon Parameters	26	MBooNE Multiwire	49	ECooling Multiwire
4	SVX Test Barrel	27	MB BPM/BLM Plots	50	EC BPM/BLM Plots
5	B0 Backgrounds	28	MiniBooNE Vacuum	51	
6	RADMON	29	MiniBooNE Permit	52	Electron Cool/NEF
7	Monitor Store	30	MiniBooNE Horn	53	Electron Cooling
8	CDF Downtime Log	31	MBooNE Sequencer	54	Pelletron Params
9	Examine Database	32	Multiwire SFIT	55	Electron Cool Vac
10		33	MBooNE C204/PCI	56	
11	E-Z Writer	34		57	
12		35		58	
13		36		59	
	------- D0 -------		------ NuMI -----		----- A0 Lab -----
15	DZero Parameters	38	NuMI Params	61	FNPL Params
16	D0 SMT Loss Mon.	39	NuMI Beam Permit	62	
17		40	NuMI C204/PCI	63	
18		41	NuMI Profile Mntrs	64	
19		42			- Miscellaneous --
20		43	NuMI Timer Cards	66	
21		44	NuMI BPM/BLM Plots	67	
22	Export Manager	45	NuMI Vacuum	68	E868 APEX PARAMS
23		46	NuMI Sequencer	69	E864 MINIMAX

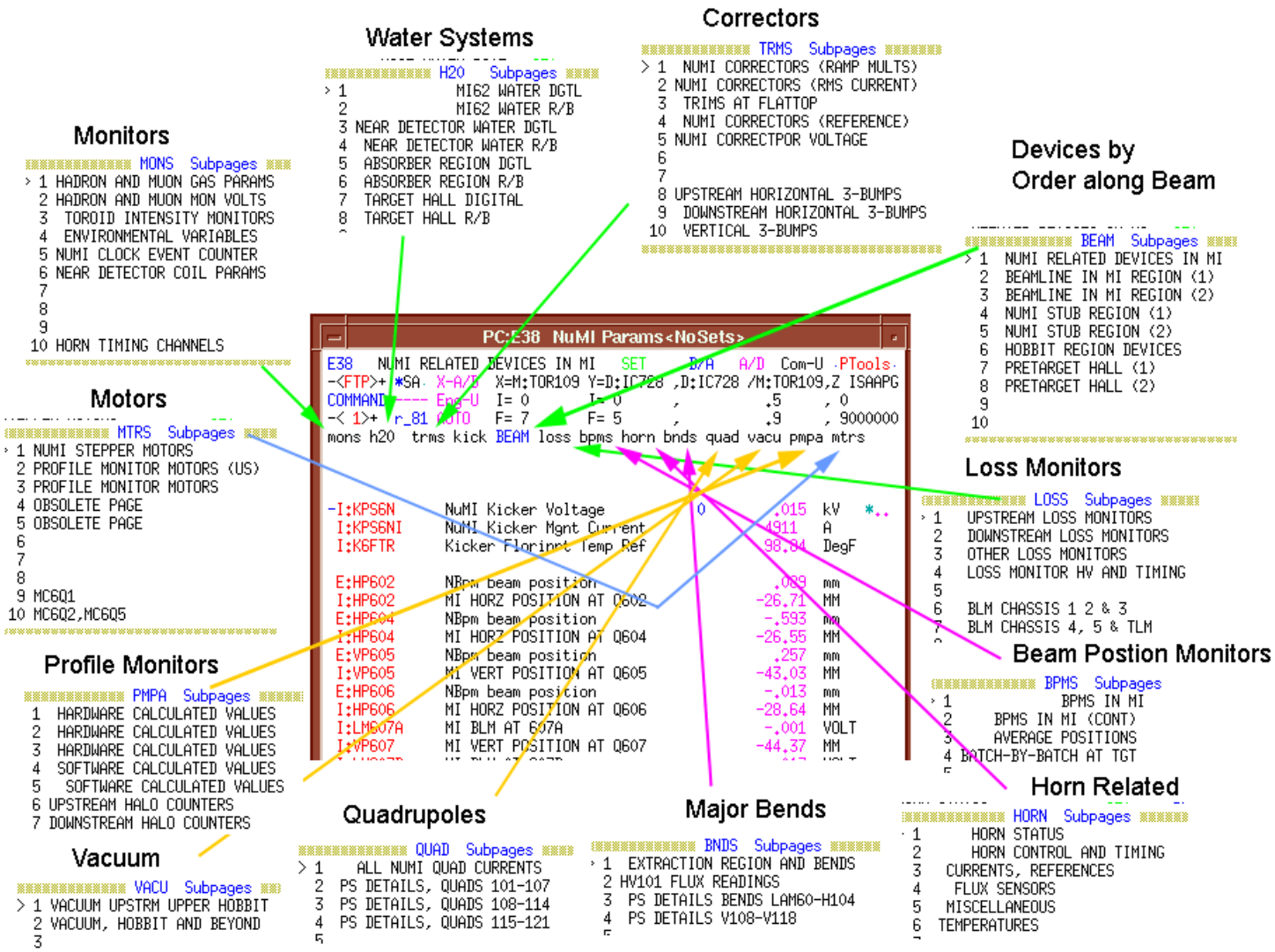
·Cmnds··Pgm_Tools·

NuMI on E Index Page

See separate description

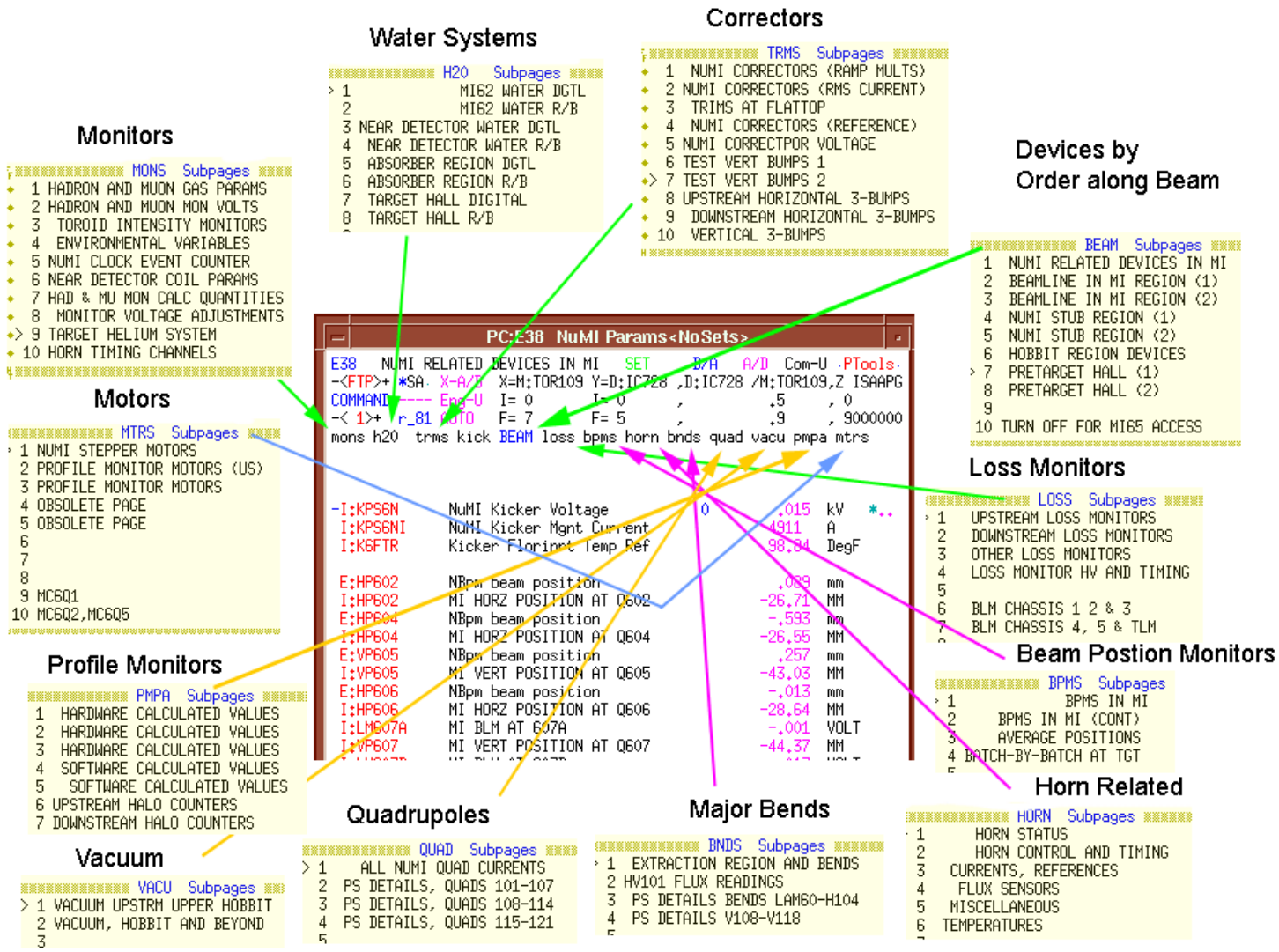
Sequencer not yet in use (3/1/05)





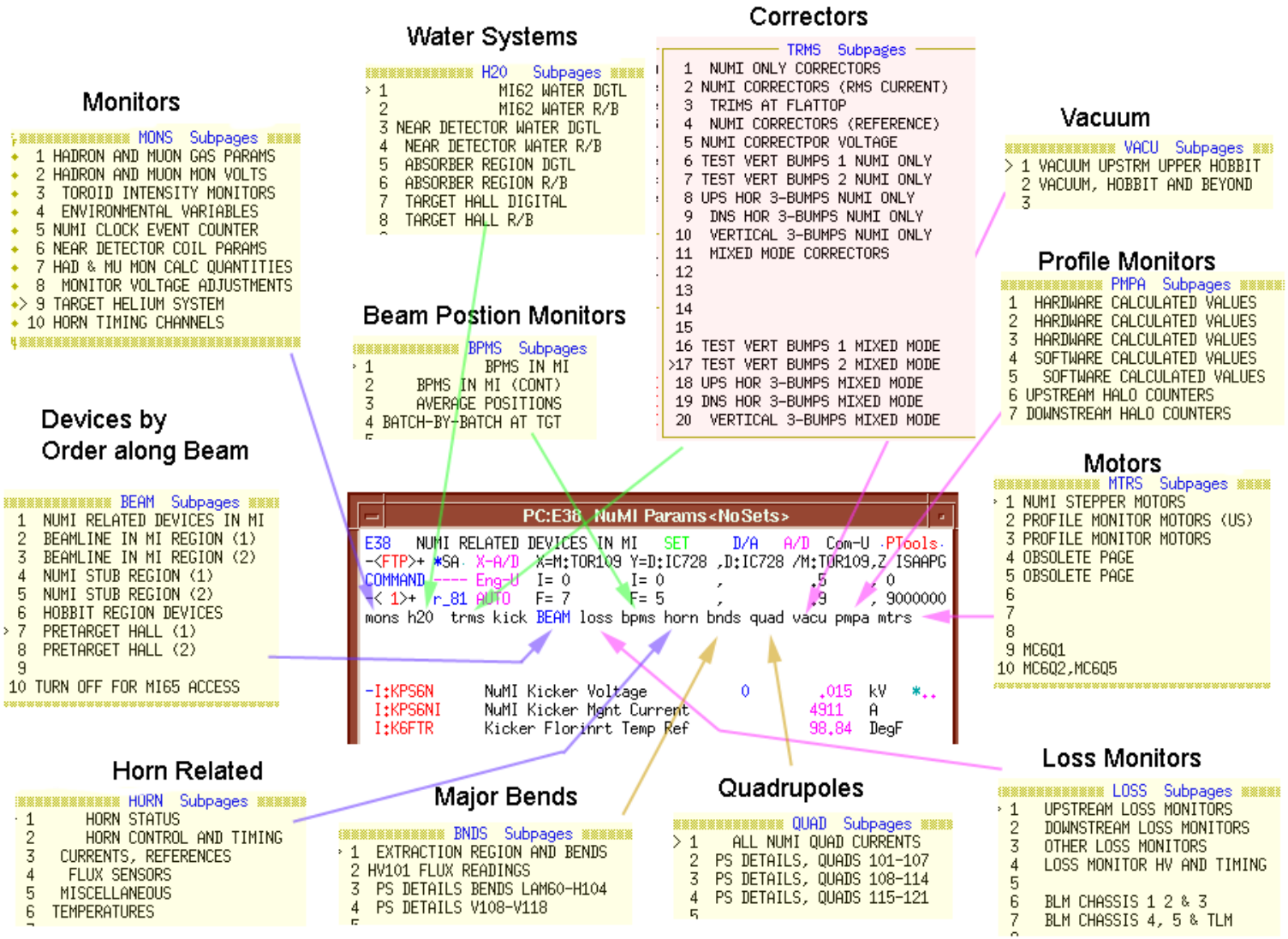
Deprecated

E38 Parameter Page and Sub-Page Menus



Deprecated

E38 Parameter Page and Sub-Page Menus

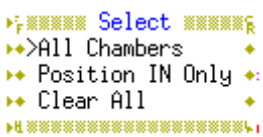


E38 Parameter Page and Sub-Page Menus

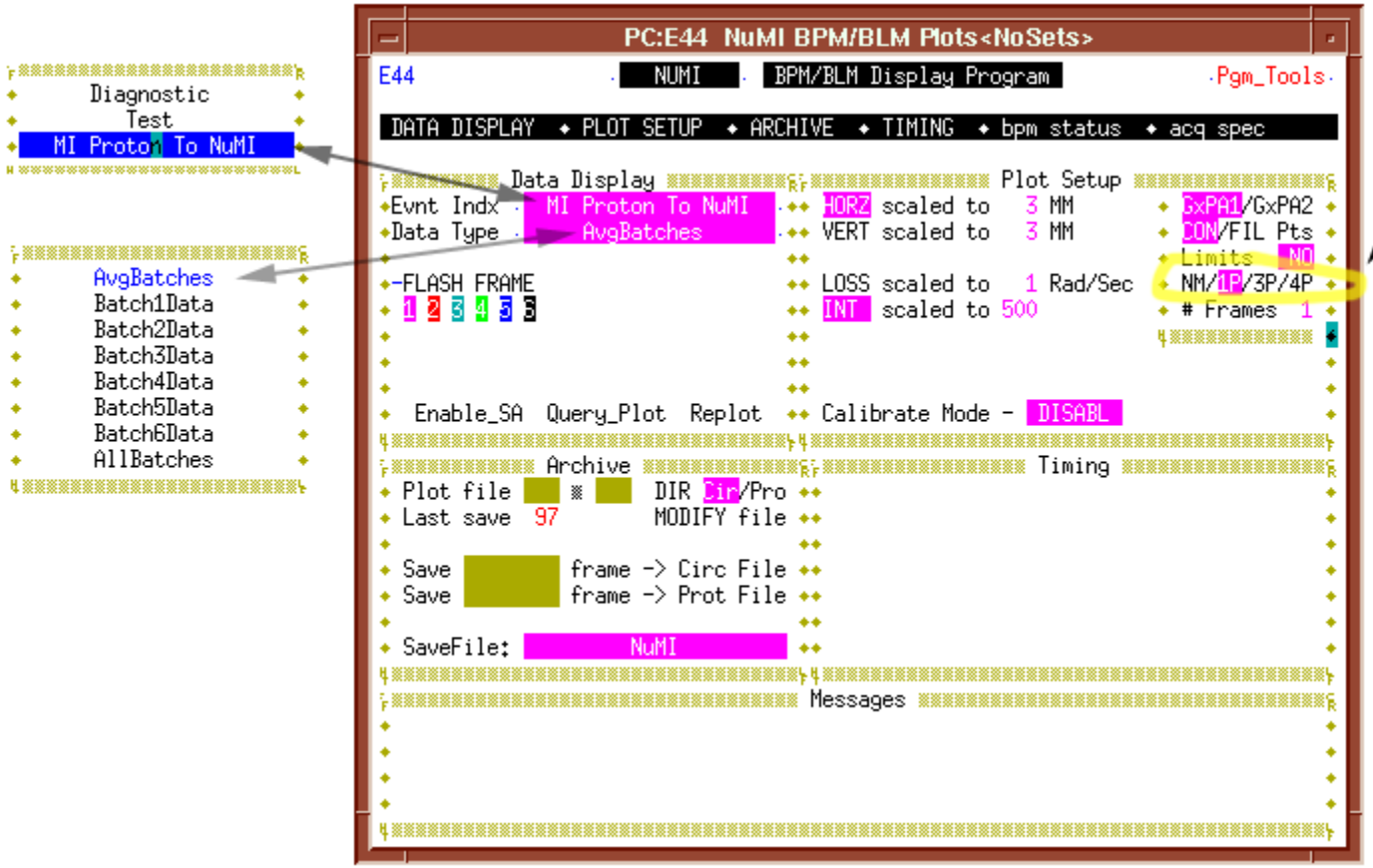
Profile Monitors – Page E41

This was chosen --for what's shown here

Indicator/Control--Profile Monitor In/Out of beam (beam should be off while moving)



BPMs – Page E44



1P for one view (and values)
4P for x, y views and intensities

Vacuum – Page E45

PC:E45 NuMI Vacuum<NoSets>

E45 · Main Injector · Vacuum ·Pgm_Tools·
·Torr · ·Data · Page -<NuMI >+ ·Main Page · ·Toggle ·
·GxPC1· · E-10· ·Plot· ·Update· ·Caution ·

Loc	PG	BV/IG	IP	Perm	Loc	PG	BV/IG	IP	Perm
BV100		* Open			112C			1.35-8	P
100			1.18-8	P	112D			1.30-8	P
101A			9.85-9	P	112B	1.68-3			
101B			1.20-8	P	BV112B		* Open		
102			2.03-8	P	114A			1.63-8	
103A			1.40-8		114B			9.37-9	
103B			1.62-8		114C			1.04-8	P
103	1.13-3				114D			1.05-8	P
104			1.91-8		115A			1.14-8	P
105A			1.56-8		115	<1.E-3			
105B			1.11-8		115B			1.95-8	P
105C			1.02-8		116A			Fault	
106A			9.03-9		116B			Fault	
106B			1.01-8		116C			Fault	
106C			1.68-8	P	116D			Fault	
107A			1.15-8	P	116E			Fault	
107B			1.06-8	P	117			7.20-8	
107C			1.37-8	P	118A			1.28-7	
108A			1.01-8		118B			9.24-8	
108B			9.46-9		118C			1.33-7	
108C			1.16-8		118D			1.89-7	
109A			1.20-8		119A			Fault	
109B			1.05-8		119B			Fault	
110A			1.09-8		121A			Fault	
110B			1.19-8		121	<1.E-3			
110	Low				121B			Fault	
111			2.26-8		121C			Fault	
BV112A		* Open			121D			4.51-7	
112A	1.33-3		1.50-8	P	IPavg				
112B			1.49-8	P					

Memo

BV112A & BV112B BOTH HAVE TO BE OPEN BEFORE BV100 WILL OPEN,L.B.
Pirani gage 110 is a bad head,L.B.

·Edit·

Messages

Bubble help is disabled - it can be enabled via ·Pgm_Tools·

RESTORE FAMILIES

Deprecated

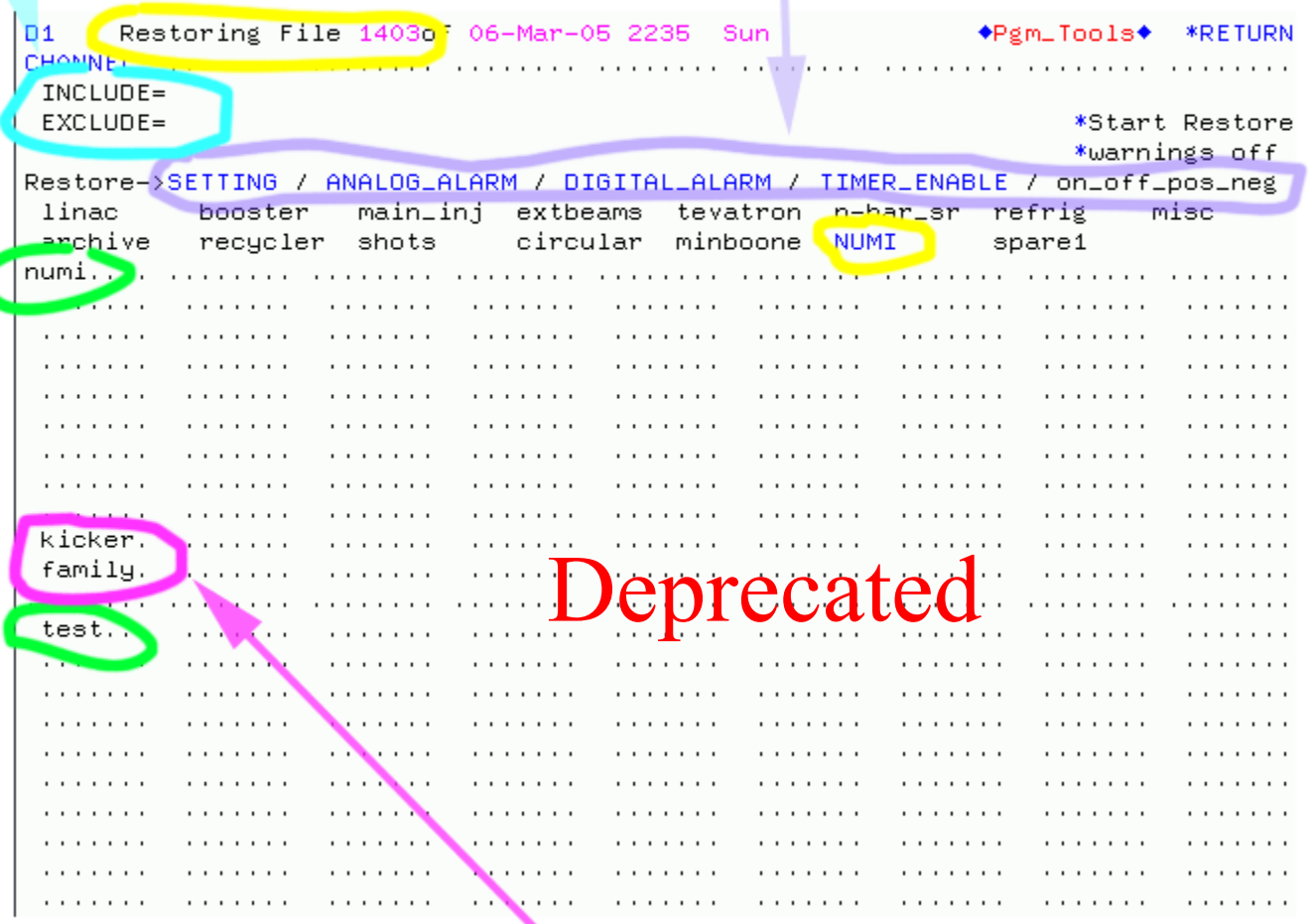
```
                    ◆D/A◆        ◆A/D◆

I:KPS6NR Family          Family

D1        Display File <1403> 06-Mar-05 2235  Sun            ◆Pgm_Tools◆  *RETURN
CHANNEL  ........ ........ ........ ........ ........ ........ ........ ........
                                                                  *Update Page
 linac     booster   main_inj  extbeams  tevatron  p-bar_sr  refrig    misc
 archive   recycler  shots     circular  minboone  NUMI      spare1
NUMI.... ........ ........ ........ ........ ........ ........ ........ ........
........ ........ ........ ........ ........ ........ ........ ........ ........
....... ....... ....... ....... ....... ....... ....... ....... kicker. FAMILY.

            ◆D/A◆        ◆A/D◆                      ◆D/A◆        ◆A/D◆
 E:NBENDR Family       Family
 E:NEXTRR Family       Family
 E:NTRIMR Family       Family
 E:NQUADR Family       Family
 E:NMNTRR Family       Family
```

These families are
RESTORE families.

bend magnets
extraction devices
trim magnets
quadrupoles
monitoring devices

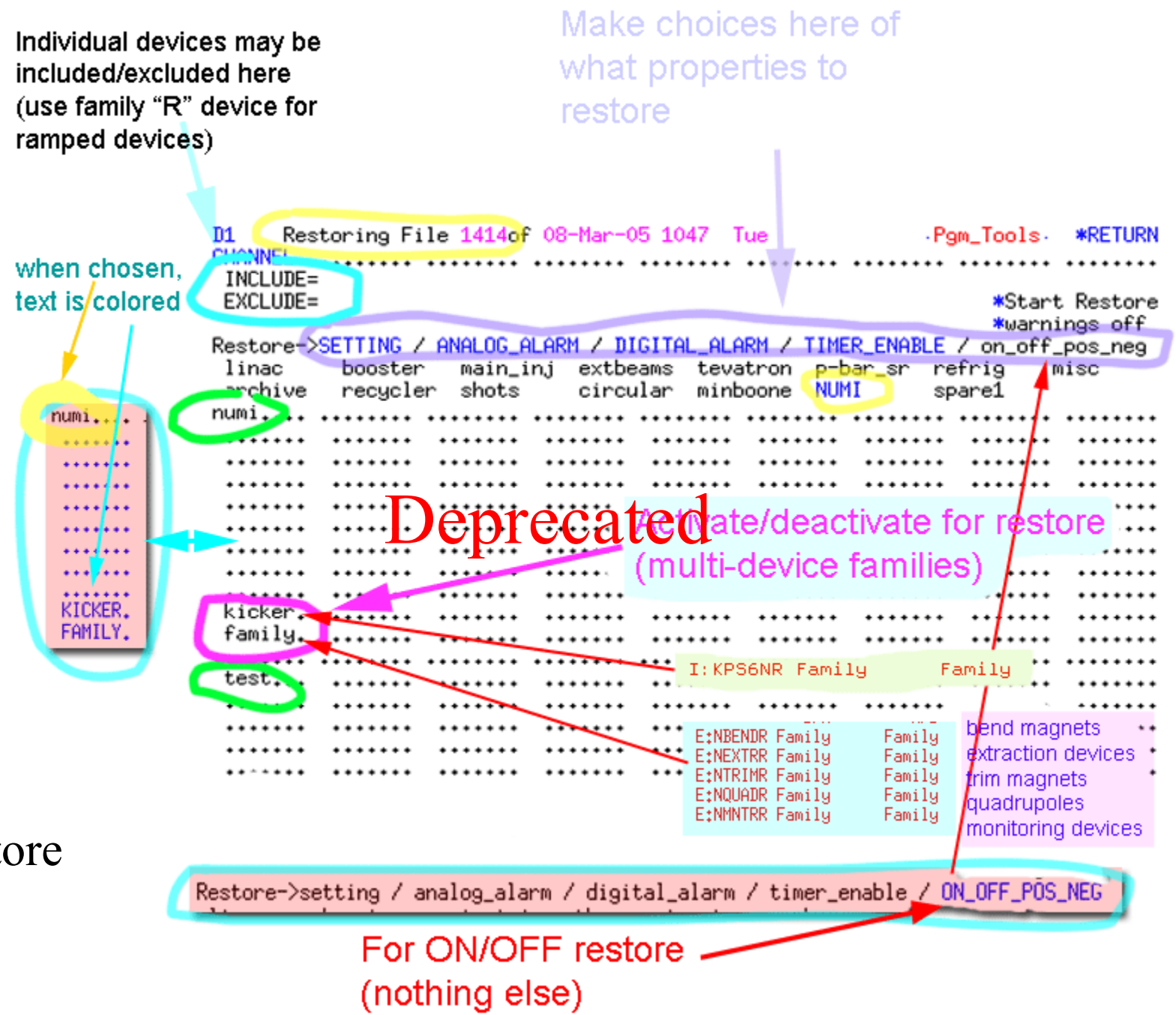
Individual devices may be included/excluded here (use family "R" device for ramped devices)

Make choices here of what properties to restore



Deprecated

Activate/deactivate for restore (multi-device families)


Individual devices may be included/excluded here (use family "R" device for ramped devices)
Make choices here of what properties to restore
when chosen, text is colored
D1 Restoring File 1414of 08-Mar-05 1047 Tue
Pgm_Tools
*RETURN
INCLUDE=
EXCLUDE=
*Start Restore
*warnings off
Restore->SETTING / ANALOG_ALARM / DIGITAL_ALARM / TIMER_ENABLE / on_off_pos_neg
linac
booster
main_inj
extbeams
tevatron
p-bar_sr
refrig
misc
archive
recycler
shots
circular
minboone
NUMI
spare1
numi
KICKER
FAMILY
kicker
family
test
Deprecated
Activate/deactivate for restore (multi-device families)
I:KPS6NR Family Family
E:NBENDR Family Family
E:NEXTRR Family Family
E:NTRIMR Family Family
E:NQUADR Family Family
E:NMNTRR Family Family
bend magnets
extraction devices
trim magnets
quadrupoles
monitoring devices
Restore->setting / analog_alarm / digital_alarm / timer_enable / ON_OFF_POS_NEG
For ON/OFF restore (nothing else)

D1 Restore

Individual devices may be included/excluded here (use family "R" device for ramped devices)

Make choices here of what properties to restore

when chosen, text is colored & larger

PB:D1 Save/Restore<NoSets>

D1 Restoring File 1400of 21-Apr-05 0012 Thu Pgm_Tools *RETURN

CHANNEL

INCLUDE=

EXCLUDE=

*Start Restore

*warnings off

Restore->SETTING / ANALOG_ALARM / DIGITAL_ALARM / TIMER_ENABLE / on_off_pos_neg

linac booster main_inj extbeams tevatron p-bar_sr refrig ecool

archive recycler shots circular minboone NUMI spare1

ps..... monitors kicker..

family. kicker.

bends..

extract

trims..

quads..

test...

BENDS..

EXTRACT

TRIMS..

QUADS..

E:NBENDR Family Family

E:NEXTRR Family Family

E:NTRIMR Family Family

E:NQUADR Family Family

E:NMNTRR Family Family

bend magnets

extraction devices

trim magnets

quadrupoles

monitoring devices

Messages

Activate multi-line list for restore

Activate/deactivate individually for restore (multi-device families)

Restore->setting / analog_alarm / digital_alarm / timer_enable / ON_OFF_POS_NEG

For ON/OFF restore (nothing else)

I 68 Page

"send-one" will not send a ramp to the Camac ramp card if the ramp hasn't been changed

Use "send-all" to send all ramps from I68 to Camac ramp cards (works even for unchanged ramps)

PA:I68 P1/P2/A1 RAMPS<NoSets>

I68 MI P1/P2 LINES PS CONTROLS ◆Pgm_Tools◆

Transfer: 120 NuMI, Mains

FILE-1 | PARAM | HARDWARE PARAM | SAVE | RESTORE | CONFIG | C468 | MISC | MAIN MENU

◆Check ◆send-one(imme:YES) ◆send-all

Line	Name	◆8 GeV level	◆min current	◆max current
NuMI	LAM60	100	99.999	915
	LAM61	400	399.58	1965
	V100	100	99.999	2806
	HV101	200	199.99	1602.5
	H104	15	14.899	39
	V108	400.89	400	4406
	H117	20	19.999	50
	V118	400.89	400	4125
	QD101	32	31.999	56.25
	QF102	37	36.999	64.63
	QD103	35	34.999	63.57
	QF104	15	14.999	21.85
	QF105	35	34.999	60.04
	QD106	35	34.999	60.04
	QF107	35	34.999	60.04
	QD108	35	34.999	60.04
	QF109	35	34.999	60.04

Messages

PA1804 on CNS155, slot 1 start 15-MAR-2005 23:43:08

See Ramped PS Tutorial for more on I68