

To: Patrick Bong

From: Paul Bellomo *Paul Bellomo*

Date: April 10, 2006

Subject: PPS Control for BX02, BX02 Stopper Magnet Power Supply

Attached are a schematic diagram and a cost estimate for implementing PPS for the subject magnet power supplies.

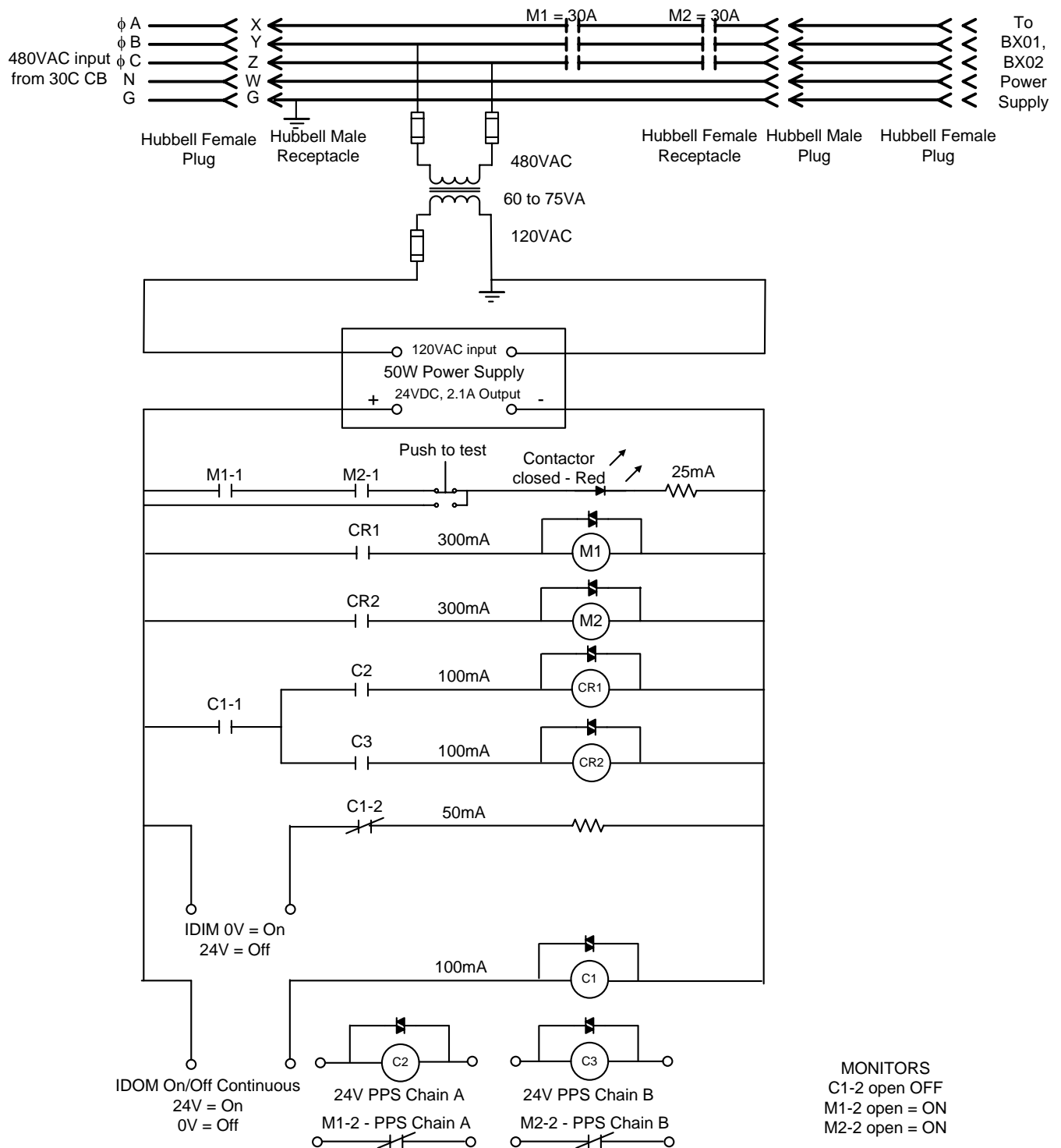
The PPS chassis would be mounted in the same rack as the BX01, BX02 power supply as shown in the attached sketch.

I would like to get your comments before I ask LCLS for money to build the system. If you have any questions about the operation of the circuit, please let me know.

Thank you.

Cc: Bob Fuller, Kristi Luchini

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### PPS Control for BX01, BX02 Stopper Magnets - Cost Estimate

Item Description	Quantity	Unit Cost	Subtotal Cost
Transformer, 75VA, 480V:120VAC	1	\$75	\$75
Contactors, 3 pole, 30A, 24VDC coil with 2 NC contacts	1	\$200	\$200
Power supply 50W, 120VAC input, 24V, 2.1A output	1	\$125	\$125
Receptacles and plugs, Hubbell, 30A, 480VAC, 5 wire	5	\$75	\$375
Fuses and fuse cartridges	3	\$25	\$75
Chassis parts	1	\$200	\$200
Miscellaneous parts	1	\$200	\$200
<b>Materials total</b>			<b>\$1,250</b>
Design coordinator \$62/hour	16	\$62	\$992
Assembly	16	\$50	\$800
Test	4	\$62	\$248
<b>Labor total</b>			<b>\$2,040</b>
<b>Grand total</b>			<b>\$3,290</b>

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