

Monthly Report of the NSLS-II Magnet Production Status and Schedule Mitigation Plan Reporting Period of 1/13/2012 – 2/17/2012

February 17, 2012, 2012

Status of Multipole Magnets

IHEP - After the NSLS-II delegation's visit to IHEP, the production of the magnet restarted with machined interfacing surface, and resumed the shipment of magnet.

Tesla - The error on the size of pole chamfers has been corrected and all other component manufacturing processes are properly running. Tesla Engineering is expected to be able to improve the production rate to 14~16 per month soon. This rate will place the completion of the production in the fall of 2012, allowing us to complete the ring installation well in time for the commissioning schedule.

Manufacturing and delivery with all other suppliers are proceeding well. In fact, ~56% of multipole magnets have delivered to BNL as of mid-February, and the completion of two types of quadrupoles at BINP will come to the end soon. As of February 17, 35 multipole magnets were in transit from the overseas suppliers.

Status of Corrector Magnets

The delivery of the 100 mm and 156 mm X/Y Correctors will be completed with the end of February shipment. The completion of the contract modification for the skew quadrupole corrector coils is imminent and a prototype of the new design is expected in mid-April. In the meanwhile, the assembly of the 100 mm X/Y corrector to which these skew coils will be mounted is proceeding well.

Status of the 35 mm Dipole Magnet

Dipole yoke production is moving ahead with Dipole No. 12 was bonded and ready for machining.

Status of the 90 mm Dipole Magnet

Dipole No. 3 is waiting for final machining, and Dipole No. 4 was bonded and the initial machining was completed.

Note: We anticipate no significant risks for remaining magnet production. Therefore, this will be the last monthly report on Magnet Production.

Magnet Production Summary

	<i>Manufacturer</i>	<i>Units to be built</i>	<i>last updated</i>	<i>yokes stacked</i>	<i>assemblies</i>	<i>received</i>	<i>accepted contractual</i>	<i>ready for girder</i>	<i>assembled on girder</i>	<i>% Complete</i>
Quad-SC-S-W	Budker	30	2/9/12	30	30	22	3	19	17	94.2%
Quad-SC-S-N	Budker	30	2/9/12	30	26	22	3	16	16	90.3%
Quad-DC-L-N	Budker	30	2/9/12	30	26	19	3	14	6	87.5%
Quad-DC-L-N	Budker	30	2/9/12	30	25	18	2	11	7	85.8%
Quad-DC-S-N	TESLA	90	2/9/12	46	19	11	3	9	10	32.5%
Quad-DC-S-W	TESLA	30	2/9/12	15	9	6	4	5	6	35.4%
Sext-S-S-N	Danfysik	169	2/9/12	146	130	114	53	66	45	78.4%
Sext-S-S-W	IHEP	75	2/9/12	69	48	32	15	21	26	72.5%
Quad-LA	Buckley	60	2/9/12	67	53	45	3	34	33	97.1%
Sext-LA	Buckley	30	2/9/12	36	25	21	2	14	15	97.3%
Dipol-35	Buckley	54	2/9/12	10	7	5	2	1	2	13.8%
Dipole 90	Buckley	6	2/9/12	3	1	1	1	0	0	25.0%
Corr-100	Everson	102	2/3/12	102	102	102	43	71	14	98.5%
Corr-100-SQ	Everson	30	1/26/12	16	12	12	12	2	1	43.7%
Corr-156	Everson	60	2/9/12	60	60	60	27	47	9	98.9%
SUMMARY		826	2/14/12	690	573	490	176	330	207	73.1%

