Monthly Report of the NSLS-II Magnet Production
Reporting Period of 9/10/2011 – 10/14/2011

October 20, 2011

Status Report

The multipole magnet production has been on track at all but one supplier during this reporting period. The one supplier is Tesla Engineering, who suddenly began to fail in the coil potting with a very low yield. S. Ozaki, C. Spataro, and K. Sinram (Consultant), visited Tesla Engineering on October 17th and 18th and it was observed that the progress is acceptable taking the completion of delivery of the total quantity in June 2012 as the target date. However, the recent difficulty with the coil potting impacted the early delivery of magnets, which in turn could impact the near term girder assembly plan.

As of October 14, 2011, 47 multipole magnets are in transit from the overseas suppliers.

Also both types of dipole magnets are in full production.

Status of the 35 mm Dipole Magnet

A Production Readiness Review (PRR) was held on September 23, 2011 at BSL, (September 22nd New York time). Prior to this, our technical representative, Frank DePaola, and our Chief Engineer, Sushil Sharma visited BSL beginning on September 19, 2011 to monitor the activities at BSL's plant and their subcontractors, and also led a successful PRR. Frank remained at BSL for two weeks, while Sushil returned shortly after the PRR.

Status of the 90 mm Dipole Magnet

The fabrication of the stacking and bonding jig for the 90 mm dipole is now in progress. The projected completion has been delayed for approximately two weeks, caused by the down time of the V100 Machining Centre at BSL but will not impact overall magnet installation schedule. Incidentally, this jig will also be used for the 35 mm dipole stacking and bonding after the completion of the 90 mm dipole manufacturing.

Magnet Production Summary

	Manufacturer	Units to be built	last updated	yokes stacked	assemblies	received	accepted contractual	ready for girder	assembled on girder	% Complete
Quad-SC-S-W	Budker	30	10/6/11	30	29	12	2	3	2	86.5%
Quad-SC-S-N	Budker	30	10/6/11	30	24	7	2	2	2	79.5%
Quad-DC-L-N	Budker	30	10/6/11	19	12	4	2	3	1	48.5%
Quad-DC-L-N	Budker	30	10/6/11	19	12	4	2	2	1	48.3%
Quad-DC-S-N	TESLA	90	10/13/11	18	5	5	2	4	2	13.6%
Quad-DC-S-W	TESLA	30	10/13/11	11	3	3	0	3	2	21.7%
Sext-S-S-N	Danfysik	169	9/21/11	77	61	52	53	25	5	39.4%
Sext-S-S-W	IHEP	75	10/3/11	69	38	13	7	8	4	65.2%
Quad-LA	Buckley	60	10/12/11	66	28	20	3	10	4	79.6%
Sext-LA	Buckley	30	10/12/11	34	11	7	2	4	2	60.8%
Dipol-35	Buckley	54	10/12/11	4	3	1	0	0	0	5.7%
Dipole 90	Buckley	6	10/12/11	1	1	1	1	0	0	15.0%
Corr-100	Everson	102	10/13/11	102	74	66	37	43	3	84.5%
Corr-100-SQ	Everson	30	10/13/11	16	12	12	12	2	2	43.7%
Corr-156	Everson	60	10/13/11	51	43	40	20	27	3	77.4%
SUMMARY		826	10/20/11	547	356	247	145	136	33	51.9%

Magnet Delivery Status and Scheduled Receive Date as of 10/14/2011

	Description	Manufacturer	Order Quantity	PRR Date	< 5/30/11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11 to 10/14	Balance of Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
				Surface shipping time (4 weeks) was added for delivery dates																					
Corrector	156mm X & Y	Everson	60	Oct-10	14	8	5	6	7	0	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0
Corrector	100mm X & Y	Everson	100	Oct-10	25	8	9	12	11	0	8	8	8	8	3	0	0	0	0	0	0	0	0	0	0
Corrector	100mm X & Y & skew	Everson	30	Oct-10	6	4	2	0	0	0	2	2	2	4	4	4	0	0	0	0	0	0	0	0	0
Dipole	35mm dipole	Buckley	54		0	1	0	0	1	1	0	3	4	4	4	4	4	4	4	4	4	4	4	4	0
Dipole	90mm dipole	Buckley	6	Jun-11	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
Quad	66mm short single coil	Budker	30	Apr-11	3	0	0	0	9	0	0	4	4	4	4	0	2	0	0	0	0	0	0	0	0
Quad	66mm short single coil wide	Budker	30	Apr-11	3	0	0	0	4	0	0	4	5	5	5	0	4	0	0	0	0	0	0	0	0
Quad	66mm long double coil	Budker	30	Apr-11	3	0	0	0	2	0	0	4	5	5	6	0	5	0	0	0	0	0	0	0	0
Quad	66mm long double coil kinke	Budker	30	Apr-11	1	0	0	2	0	0	0	3	5	6	6	0	7	0	0	0	0	0	0	0	0
Quad	66mm short double coil	Tesla	90	May-11	2	1	0	0	1	1	3	13	9	9	9	9	18	9	6	0	0	0	0	0	0
Quad	66mm short double coil wide	Tesla	30	May-11	1	0	0	1	0	1	0	7	3	3	3	3	6	2	0	0	0	0	0	0	0
Quad	66mm Tesla back-up	Budker	3																						
Quad	66mm wide Tesla back-up	Budker	4																						
Sextupole	68mm sextupole	Danfysik	169	Aug-10	44	8	0	0	4	0	15	14	14	11	14	14	14	0	17	0	0	0	0	0	0
Sextupole	68mm wide sextupole	IHEP	75	Apr-11	6	0	2	3	0	0	7	22	0	11	11	0	13	0	0	0	0	0	0	0	0
Sextupole	90mm large aperture	Buckley	60	Apr-11	3	0	0	9	0	8	0	4	4	6	6	6	6	8	0	0	0	0	0	0	0
Sextupole	72mm large aperture	Buckley	30	Mar-11	2	1	0	0	0	0	0	3	2	3	3	3	3	3	3	3	1	0	0	0	0
Quad	90mm Buckley back-up	IHEP	6	Mar-11																					
Sextupole	72mm Buckley back-up	IHEP	4	Mar-11																					
Number of Magnet planned for delivery in the Month					114	31	18	33	39	11	41	97	71	85	81	43	85	26	30	5	4	4	4	4	0
Cumulative Number of Magnets to be delivered - in the Plan					114	145	163	196	235	246	287	384	455	540	621	664	749	775	805	810	814	818	822	826	826
Cumulative Numered Delivered - Actual					114	145	163	196	235	244															