

**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 17<sup>th</sup> and 18<sup>th</sup> 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 22<sup>nd</sup> 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%
<b>SUMMARY</b>		<b>826</b>	<b>10/20/11</b>	<b>547</b>	<b>356</b>	<b>247</b>	<b>145</b>	<b>136</b>	<b>33</b>	<b>51.9%</b>

