



**Fermilab**

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TS-SSC 92-060

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From: Masayoshi Wake  
Subject: 50mm Short Coils Update

The short 50mm dipole coils have different features accidentally or intentionally. Recent changes are in the insulation materials. They are summarized in the attached table to date. Please notify me if my recorection is wrong.

Magnet		coil	cable	insulation	shim	wedge
DSA330	UP-out	235	4-I-40	2H+2LT one side	+5	
	LW-out	236	4-I-58	2H+2LT one side	+5	
	UP-in	135	3-S-26	2H+batLT one side	+0	(1)
	LW-in	136	3-S-26	2H+batLT one side	+0	(1)
DSA331	UP-out	240	4-I-58	2Ap+2Ap both side	+0	
	LW-out	239	4-I-56	2Ap+2Ap both side	+0	
	UP-in	140	3-S-26	3Ap one side	+0	
	LW-in	139	3-S-26	3Ap one side	(+5)	(2)
DSA332	UP-out	237	4-I-58	2H+2LT one side	+10	
	LW-out	238	4-I-58	2H+2LT one side	+10	
	UP-in	137	3-I-66	2H+batLT one side	+0	
	LW-in	138	3-S-26	2H+batLT one side	+0	
DCA 333	UP-out	242	4-I-58	2Ap+2Ap both side		
	LW-out	243	4-I-51	2Ap+2Ap both side		
	UP-in	143	3-I-66	2Ap+batAp both side		
	LW-in	144	3-I-66	2Ap+batAp both side		
DCA 334	UP-out		4-O-25	2Ap+2Ap both side		
	LW-out		4-O-25	2Ap+2Ap both side		
	UP-in		3-I-66	2Ap+batAp both side		
	LW-in		3-I-66	2Ap+batAp both side		
DCA 320	UP-out	2022	4-S-29	2H+batLT one side	+5	
	LW-out	2023	4-S-29	2H+batLT one side	+5	
	UP-in	1021	3-I-66	2H+2LT one side		
	LW-in	1022	3-I-68	2H+2LT one side		
DCA 321	UP-out	2024	4-S-30	2H+batLT one side		
	LW-out	2025	4-S-30	2H+batLT one side		
	UP-in	1023	3-S-25	2H+2LT one side		
	LW-in	1024	3-S-25	2H+2LT one side		
DCA 322	UP-out	2026	4-S-31	2Ap+2Ap both side		
	LW-out	2027	4-S-31	2Ap+2Ap both side		
	UP-in	1025	3-S-35	2Ap+batAp both side		
	LW-in	1026	3-S-36	2Ap+batAp both side		
DCA 323	UP-out	2028	4-S-32	2Ap+2Ap both side		
	LW-out	2029	4-S-32	2Ap+2Ap both side		
	UP-in	1027	3-S-40	2Ap+batAp one side		
	LW-in	1028	3-S-46	2Ap+batAp one side		

- (1) Two 15 mil shims in large wedge. Had difficulty
  - (2) 15 mil shim in large wedge could have been used insted of 30 mil one. The pole shim of 5 mil was used only in the quadrant 4.
- Standard wedges have 15 mil brass shim in small inner wedges, 30 mil shim in large inner wedges and 10 mil shim in outer wedges to compensate the cable thickness change.