Fermilab

TS-SSC 90-086
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To : Mike Winters, Bill Boroski, Jim Strait

From : Wayne Koska

Subject : Instrumentation Needs from 11/1/90 - 4/1/91

This is my estimate of our instrumentation needs for the next five months, assuming current schedules, encompassing magnets DS0313-315, DC0303-305, and DSA321-326 (see chart on next page). In addition there are two skins which need to be instrumented with 20 shell gages each for the yoke skin interface experiments. This is an additional 40 gages, which means we will ask the engineering group to install approximately 340 gages on 20 structures in the next five months.

We will also need approximately nine sets of bullet gages calibrated by the engineering group. We might be able to reduce this number by reusing bullets, however we seem to lose several gages per set on every magnet we test leading me to believe we can scavenge hardware (load slugs, bushing screws and rings) but we'll still have to do the calibrations.

	DS0		DC0		DSA		Total # of Gages
Gage Type	Magnets	Gages per Mag	Magnets	Gages per Magnet	Magnets	Gages per Mag	
40 mm Collar Gages							
Active	2	8	2	16			48
Comp	2	6	2	12			36
50 mm Collar Gages							
Active					6	8	48
Comp					6	6	36
Shell Gages							
Skin	3	20	3	18	5	20	124
End Can	2	12			5	12	84
Bullet Gages							
Active	2	8	2	8	5	8	72
Comp	2	2	2	2	5	2	18