CURRENT STATUS OF ZEUS-MVD "C&C" WORK AT UCL :

DESY, 23 November 1999

1)	"C&C MASTER" modules :	All 2 modules at UCL since October Both are being tested (slowly) One may be ready for DESY early 2000 (DAH, JBL, MP)
2)	"C&C SLAVE" modules :	All 6 modules at UCL since October Two are being tested (slowly) First may be ready for DESY early 2000 (DAH, JBL, MP)
3)	HELIX DRIVER PROTOTYPE : (2 channels, 6U, wire-wrap)	Module is being tested at UCL (DAH, GN, JBL)
4)	HELIX DRIVER PCB : (15 channels each)	Being designed at UCL Into production in Jan/Feb 2000 (DAH, GN, JBL)
5)	HELIX DRIVER FANOUT BUFFER PCB :	Being designed at UCL Into production in Jan/Feb 2000 (DAH, GN, JBL)
6)	HELIX DRIVER DEMONSTRATOR : (2 channels, with "CAB" module, 6U, wire-wrap)	Built, waiting for prototype "CAB (DAH, GN, PDS/Oxford)
7)	CMOS ACTIVE BUFFER ("CAB") : (SMD components on DIL adaptor on PATCH BOX pcb, to receive LVDS from HELIX DRIVER and convert them into CMOS to drive Helix F/E)	Preliminary design ready (GN, PDS/Oxford)
8)	GFLT -> Veto Wall : C&C cable :	Test sample received Length measured 50m Testing to be done at UCL to determine suitability (DAH, JBL, MP)
9)	Veto Wall -> Patch Box : Helix Driver Cable :	Test sample received Length est. 20m Testing to be done at UCL to determine suitability (DAH, GN, JBL)

QUESTIONS re: HELIX DRIVER DATA DOWNLOADING :

Signals : Trigger/Data, Load, NotReset

1) Data : Currently planned to broadcast to all Driver outputs simultaneously = no provision for sending to selected channels only (selected by 2 below) Q1
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2) Load : Send to selected channel outputs
Optionally broadcast to all Driver outputs

3) NotReset : Asserted during downloading so Data is not interpreted as Trigger

Will be asserted during downloading by SOFTWARE (eg. for 1 sec duration)

IF a problem because of power dissipation in terminating resistors, should be asserted by HARDWARE as necessary ? Q2
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4) Download Register : 20-bit Helix Data field
4-bit channel Address field
(eg. 15 addresses and 1 broadcast)

5) Masking : Clock, Trigger/Data, Load, NotReset are NOT MASKED during broadcast (eg. for dead/crazy channels) Q4
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