

E04-007 Shift check List

Date: 4/3/2008

	Owl	Day	Swing
Time (hh/mm,24:00)			21:20
Your Name	Chen		J. P. Chen
Visual Hall Inspection			✓
Beam Energy (MeV)			1193 MeV
Beam Current (uA)			2.7 uA
SPOT size X/Y (mm)			< 200 um (ratio off)
Beam Position at 1H04A X/Y (mm)			-0.55 / 0.88
Beam Position at 1H04B X/Y (mm)			-1.1 / 1.7
Hall A beam position feedback			off
Wien angle			-26.20°
Target type			LH2
Target pump speed (Hz)			36 Hz
Target temperature			20 K
Target pressure			23.2 Psi
Left Arm Angle			35.501
Left Arm Collimator			OUT
Left Cryo level OK ? (He > 60%, N > 25%)			OK
Left Arm Momentum (GeV/c)			0.96930
Left Arm NMR ok ?			Yes
Left Arm Quad #1 (A)			729.267
Left Arm Quad #2 (A)			417.42
Left Arm Dipole (A)			322.44
Left Arm Quad #3 (A)			385.85
Right Arm Angle			104.998
Right Arm Collimator			—
Right Cryo level OK ? (He > 60%, N > 25%)			OK except dipole He L663%
Right Arm Momentum (GeV/c)			0.4735
Right Arm NMR ok ?			No
Right Arm Quad #1 (A)			356.062
Right Arm Quad #2 (A)			203.88
Right Arm Dipole (A)			163.02
Right Arm Quad #3 (A)			188.41

Date:

	Owl	Day	Swing
Argon pressure (PSI)			23 22
Ethane pressure (PSI)			363
CO2 pressure (PSI)			490
Left VDC gas flow (top/bottom)			5.56/5.55
Right VDC gas flow (top/bottom)			2.635/8.622
Left Cerenkov pressure (PSI)			—
Left VDC HV on (top/bottom) ?			4/4
Right VDC HV on (top/bottom) ?			4/4
Left S0/S1/S2 HV on ?			yes
Right S0/S1/S2 HV on ?			yes
Left Cerenkov HV on ?			yes
BigBite Angle			54 degrees
BigBite Current			390 A
BigBite E HV?			OK (m)
BigBite dE HV?			OK (m)
BigBite Chamber HV?			On (m)
BigBite Front WC HV			1350
BigBite Back WC HV			1350
BigBite prescale PS6/PS7			100000/100000
BigBite rates T6/T7			152/1K
BigBite Gas Bubbling?			yes
Latest run number			2270
Computer deadtime			31%
Right prescale PS1/PS2			1/20000
Left prescale PS3/PS4			YS
Right rates T1/T2			14/11
Left rates T3/T4			2.34K/3.5
Coincidence Prescale			10000
Coincidence Rate T5			141
BigBite prescale P1/P2			650000/650000
BigBite rates T0/TZ			276K/200K

This file can be found at: http://hallaweb.jlab.org/experiment/E04-007/Documents/shift_check_list.ps
 The LaTeX file can be found at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/LaTeX>
 Last revision : 01-April-2008

E04-007 Shift check List

Date: 04/04/08

04/04/08

	Owl	Day	Swing
Time (hh/mm,24:00)	05:30		22:10
Your Name	David Hamilton		E. Cludakov
Visual Hall Inspection	✓		✓
Beam Energy (MeV)	1193 meV		1193
Beam Current (uA)	2.9 uA		4.7 uA
SPOT size X/Y (mm)	<200 um (crater off)		1x1 mm
Beam Position at 1H04A X/Y (mm)	-0.559 / 0.445		-0.4 0.7
Beam Position at 1H04B X/Y (mm)	-1.008 / 1.811		-1 1.7
Hall A beam position feedback	off		on
Wien angle	-20.20°		-40.2°
Target type	6 cm LH2		6 cm LH2
Target pump speed (Hz)	36 Hz		36
Target temperature	20 K		20
Target pressure	22.71 psi		22.6
Left Arm Angle	35.501°		35.5
Left Arm Collimator	sieve (0.3682)		out
Left Cryo level OK ? (He>60%, N>25%)	OK		OK
Left Arm Momentum (GeV/c)	0.9693 meV/c		0.9693
Left Arm NMR ok ?	OK		OK
Left Arm Quad #1 (A)	729.627		729.3
Left Arm Quad #2 (A)	417.42		417.4
Left Arm Dipole (A)	322.62		282.77
Left Arm Quad #3 (A)	385.85		385.85
Right Arm Angle	104.998		105.0
Right Arm Collimator	-		-
Right Cryo level OK ? (He>60%, N>25%)	OK		OK
Right Arm Momentum (GeV/c)	0.4735 GeV/c		0.4735
Right Arm NMR ok ?	NO		OK
Right Arm Quad #1 (A)	356.008		356.0
Right Arm Quad #2 (A)	203.88		203.88
Right Arm Dipole (A)	163.02		162.97
Right Arm Quad #3 (A)	188.41		188.41

Date:

	Owl	Day	Swing
Argon pressure (PSI)	1580.9 PSI		383
Ethane pressure (PSI)	361.23 PSI		365
CO2 pressure (PSI)	446.5 PSI		748
Left VDC gas flow (top/bottom)	5.57 / 5.56 l/h		5.56 / 5.54
Right VDC gas flow (top/bottom)	2.56 / 8.69 l/h		2.5 / 9.5
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?	4 / 4		4 / 4
Right VDC HV on (top/bottom) ?	4 / 4		4 / 4
Left S0/S1/S2 HV on ?	yes		✓
Right S0/S1/S2 HV on ?	yes		✓
Left Cerenkov HV on ?	yes		✓
BigBite Angle	54°		5
BigBite Current	390 A		390
BigBite E HV?	on		on
BigBite dE HV?	on		on
BigBite Chamber HV?	on		on
BigBite Front WC HV	1450 V		1550 V
BigBite Back WC HV	1450 V		1550 V
BigBite prescale PS6/PS7	100000 / 10000		10 ⁵ / 10 ⁴
BigBite rates T6/T7	7 / 6.6 Hz		2.6 / 7.3 Hz
BigBite Gas Bubbling?			
Latest run number	2280		2304
Computer deadtime	4%		6%
Right prescale PS1/PS2	—		—
Left prescale PS3/PS4	1 / 5		1 / 5
Right rates T1/T2	—		340 / 18
Left rates T3/T4	43.7 Hz / 11.0 Hz		
Coincidence Prescale	10000		1
Coincidence Rate T5	6.8 Hz		27
BigBite prescale			
BigBite rates T6/T7			

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E04-007 Shift check List

Date: 04/05/08

	Owl	Day	Swing
Time (hh/mm,24:00)			23:05
Your Name		Ge Jin	Dave H
Visual Hall Inspection		✓	✓
Beam Energy (MeV)		1193.3655	1193.1551
Beam Current (uA)		5	5.21
SPOT size X/Y (mm)		5.536/3.690	cases off
Beam Position at 1H04A X/Y (mm)		-0.214/0.717	-0.25/0.68
Beam Position at 1H04B X/Y (mm)		-0.985/1.727	-1.01/1.70
Hall A beam position feedback		On / RF off	on
Wien angle -		-40.203	-40.203
Target type		liquid H	LH ₂
Target pump speed (Hz)			
Target temperature			
Target pressure			
Left Arm Angle		35.5	20.5
? Left Arm Collimator		OPEN 0.8712m	OPEN
Left Cryo level OK ? (He>60%, N>25%)			
Left Arm Momentum (GeV/c)		0.96590	0.960
Left Arm NMR ok ?		OK	OK
Left Arm Quad #1 (A)		726.757	722.271
Left Arm Quad #2 (A)		415.93	413.42
Left Arm Dipole (A)		321.32	318.64
Left Arm Quad #3 (A)		384.49	382.16
Right Arm Angle		105	
? Right Arm Collimator			
Right Cryo level OK ? (He>60%, N>25%)			
Right Arm Momentum (GeV/c)		0.47350	
Right Arm NMR ok ?		OK	
Right Arm Quad #1 (A)		356.008	
Right Arm Quad #2 (A)		207.88	
Right Arm Dipole (A)		162.98	
Right Arm Quad #3 (A)		188.41	

Date:

	Owl	Day	Swing
Argon pressure (PSI)		1675.023	885.936 PSI
Ethane pressure (PSI)		304.223	222.626
CO2 pressure (PSI)		711.627	604.666
Left VDC gas flow (top/bottom)		2.398 / 9.220	5.57 / 5.56
Right VDC gas flow (top/bottom)		5.55 / 5.54	2.59 / 3.78
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?		3.89 / 3.95	3.99 / 3.99
Right VDC HV on (top/bottom) ?		3.84 / 3.84	4.00 / 4.00
Left S0/S1/S2 HV on ?			✓
Right S0/S1/S2 HV on ?			✓
Left Cerenkov HV on ?			✓
BigBite Angle		54°	54°
BigBite Current		388.10	390
BigBite E HV?		✓	✓
BigBite dE HV?		✓	✓
BigBite Chamber HV?		✓ ?	✓
BigBite Front WC HV		✓	✓
BigBite Back WC HV		✓	✓
BigBite prescale PS6/PS7			
BigBite rates T6/T7			
BigBite Gas Bubbling?			
Latest run number			2367
Computer deadtime	30,000 / 15,000	30,000 / 15,000	7°
Right prescale PS1/PS2	30,000 / 55,000	30,000 / 55,000	—
Left prescale PS3/PS4		449 / 1	900 / 25
Right rates T1/T2		2.62e+5 / 6.62e+4	—
Left rates T3/T4		4.02e+3 / 5.51e+1	8.71e+2 / 0.25e+2
Coincidence Prescale			1
Coincidence Rate T5		3.058e+2	0.63 kHz
BigBite prescale T1/T2			50000 / 90000
BigBite rates T6/T7		3.658e+2 / 2.135e+3	430 kHz / 800 kHz

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E04-007 Shift check List

Date: 04/06

	Owl	Day	Swing
Time (hh/mm,24:00)	3:44	15:30	23:30
Your Name	Khem	Ge Jin	Dave H
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	1193.39	1193.52	1143.37
Beam Current (uA)	4.6	4.7	0
SPOT size X/Y (mm)	raster off 0.1/0.1	raster off 0.1/0.1	raster off
Beam Position at 1H04A X/Y (mm)	-0.23 / 0.66	-0.357 / 0.669	-
Beam Position at 1H04B X/Y (mm)	-1.013 / 1.691	-0.997 / 1.680	-
Hall A beam position feedback	on	on	on
Wien angle	-40.2		-40.2
Target type	LH ₂	LH ₂	LH ₂
Target pump speed (Hz)	36	36	36
Target temperature	20	20	20
Target pressure	22.7	22.8	22.82
Left Arm Angle	20.5	20.5	20.5
Left Arm Collimator	open 0.8713	open 0.8712	open 0.8713
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Left Arm Momentum (GeV/c)	0.96	0.96	1.194
Left Arm NMR ok ?		✓	✓
Left Arm Quad #1 (A)	722.271	722.271	898.299
Left Arm Quad #2 (A)	413.42	413.42	514.01
Left Arm Dipole (A)	318.63	318.64	397.97
Left Arm Quad #3 (A)	382.16	382.17	475.31
Right Arm Angle	105°	105	105
Right Arm Collimator	0	0	0
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Right Arm Momentum (GeV/c)	0.4735	0.4735	0.4735
Right Arm NMR ok ?		✓	✓
Right Arm Quad #1 (A)	356.0	356.008	356.062
Right Arm Quad #2 (A)	-0.01	-0.01	203.72 203.72
Right Arm Dipole (A)	162.98	162.98	162.48
Right Arm Quad #3 (A)	188.41	188.41	188.41

Change back to 0.960 mev/c

1 PS5=PS6=1, PS7=65000, PS8=100

Rate Date: $T_1 = 4.9 e^{+5}$, $T_2 = 8.7 e^{+5}$, $T_3 = 7.15 e^{+3}$, $T_4 = 1.391 e^{+3}$
 $T_5 = 4.876 e^{+2}$, $T_6 = 8 e^{+2}$, $T_7 = 1.850 e^{+3}$, $T_8 = 1.024 e^{+3}$

	Owl	2008	Swing
Argon pressure (PSI)	522.949	2/06.15 ²	1478.91
Ethane pressure (PSI)	174.824	391.992	351.66
CO2 pressure (PSI)	582.594	563.379	514.45
Left VDC gas flow (top/bottom)	5.55/5.54	5.57/5.56	5.54/5.53
Right VDC gas flow (top/bottom)	2.56/8.02	2.402/8.369	2.399/8.628
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?	3.99/3.97 kV	3.89/3.96	3.990/3.996
Right VDC HV on (top/bottom) ?	4/4 kV	3.84/3.84	3.999/4.004
Left S0/S1/S2 HV on ?	✓	✓	✓
Right S0/S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?	✓	✓	✓
BigBite Angle	54	54	54
BigBite Current	388.1	288.1	0A
BigBite E HV?	on	✓	✓
BigBite dE HV?	on	✓	✓
BigBite Chamber HV?	on	✓	on ✓
BigBite Front WC HV	1550	1550	1600
BigBite Back WC HV	1550	1550	1600
BigBite prescale PS6/PS7			
BigBite rates T6/T7			
BigBite Gas Bubbling?	✓	✓	
Latest run number	7396	4445	21
Computer deadtime	0	0	
Right prescale PS1/PS2			
Left prescale PS3/PS4			
Right rates T1/T2			
Left rates T3/T4			
Coincidence Prescale			
Coincidence Rate T5			
BigBite prescale			
BigBite rates T6/T7			

Prescale $ps1=50K$ $ps2=90K$ $ps3=900$ $ps4=25$ $ps5=ps6=1$ $ps7=65K$

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ow/ rate T_1 4.4 e5 T_7 1.6K
 T_2 7.9 e5 T_8 1K
 T_3 7.7 e3
 T_4 218
 T_5 502
 T_6 770

E04-007 Shift check List

Date: 4/7/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	03:22		22:45
Your Name	Mitra S.		Dave H
Visual Hall Inspection	✓		✓
Beam Energy (MeV)	1193.50		1193.13
Beam Current (uA)	4.6		1
SPOT size X/Y (mm)	Raster off		Raster off
Beam Position at 1H04A X/Y (mm)	-0.572/0.679		
Beam Position at 1H04B X/Y (mm)	-1.001 / 1.676		
Hall A beam position feedback	ON		
Wien angle	-40.20		-40.20
Target type	LH2		LH2
Target pump speed (Hz)	36		
Target temperature	20		
Target pressure	22.76		
Left Arm Angle	20.5°		35.5°
Left Arm Collimator	Open (0.8712m)		open
Left Cryo level OK ? (He>60%, N>25%)	✓		✓
Left Arm Momentum (GeV/c)	0.960		0.9693
Left Arm NMR ok ?	✓		✓
Left Arm Quad #1 (A)	722.324		729.320
Left Arm Quad #2 (A)	413.44		417.45
Left Arm Dipole (A)	318.64		321.76
Left Arm Quad #3 (A)	382.20		385.89
Right Arm Angle	105°		105°
Right Arm Collimator	0		0
Right Cryo level OK ? (He>60%, N>25%)	✓		✓
Right Arm Momentum (GeV/c)	0.4735		0.4735
Right Arm NMR ok ?	✓		✓
Right Arm Quad #1 (A)	356.008		356.062
Right Arm Quad #2 (A)	203.72		203.77
Right Arm Dipole (A)	162.98		162.98
Right Arm Quad #3 (A)	188.41		188.41

Date: 4/7/2008

	Owl	Day	Swing
Argon pressure (PSI)	1180.664	1925.098	→
Ethane pressure (PSI)	347.754	355.64	→
CO2 pressure (PSI)	507.129	496.63	→
Left VDC gas flow (top/bottom)	5.54/5.53		5.56/5.54
Right VDC gas flow (top/bottom)	2.473/9.484		2.741/8.206
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?	3.89/3.96		3.994/3.994
Right VDC HV on (top/bottom) ?	3.85/3.84		4.00/4.008
Left S0/S1/S2 HV on ?	✓		✓
Right S0/S1/S2 HV on ?	✓		✓
Left Cerenkov HV on ?	✓		✓
BigBite Angle	54		54
BigBite Current	390		390
BigBite E HV?	ON		ON
BigBite dE HV?	ON		ON
BigBite Chamber HV?	ON		ON
BigBite Front WC HV	1550		1550
BigBite Back WC HV	1550		1550
BigBite prescale PS6/PS7	1/65000		
BigBite rates T6/T7	694/1774		
BigBite Gas Bubbling?	✓ just chambers		✓
Latest run number	2481		
Computer deadtime	0		
Right prescale PS1/PS2	1 / 20000		
Left prescale PS3/PS4	670 / 130		
Right rates T1/T2	4.43×10^5 / 7.85×10^5 Hz		
Left rates T3/T4	6720 / 1325 Hz		
Coincidence Prescale	1		
Coincidence Rate T5	404 Hz		
BigBite prescale			
BigBite rates T6/T7	694 / 1774 Hz		

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Date: 4/8/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	04:55	3:55	
Your Name	Mitra S.	Ge Jh	
Visual Hall Inspection	✓	✓	
Beam Energy (MeV)	1193.11	1193.56	
Beam Current (uA)	4.95	0.024	
SPOT size X/Y (mm)	Raster off	off	
Beam Position at 1H04A X/Y (mm)	-0.580 / 0.660	0	
Beam Position at 1H04B X/Y (mm)	-1.007 / 1.703	0	
Hall A beam position feedback	ON		
Wien angle	-40.20	-40.2	
Target type	LH2	LH2	
Target pump speed (Hz)	36	36	
Target temperature	20.01	16.5 20.00	
Target pressure	22.90	22.98	
Left Arm Angle	16.5°	16.5°	
Left Arm Collimator	Open (0.8712 m)	open, 0.8712	
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	
Left Arm Momentum (GeV/c)	0.9861	0.9860	
Left Arm NMR ok ?	✓	✓	
Left Arm Quad #1 (A)	741.924	741.924	
Left Arm Quad #2 (A)	424.60	424.6	
Left Arm Dipole (A)	327.36	327.36	
Left Arm Quad #3 (A)	392.43	392.58	
Right Arm Angle	105°	105°	
Right Arm Collimator	0	0	
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	
Right Arm Momentum (GeV/c)	0.4735		
Right Arm NMR ok ?	✓	✓	
Right Arm Quad #1 (A)	356.062	356.008	
Right Arm Quad #2 (A)	203.72	203.72	
Right Arm Dipole (A)	162.97	162.98	
Right Arm Quad #3 (A)	188.41	188.41	

Date: 4/8/2008

	Owl	Day	Swing
Argon pressure (PSI)	1502.344	7/9.246	
Ethane pressure (PSI)	347.461	365.668	
CO2 pressure (PSI)	487.500	504.492	
Left VDC gas flow (top/bottom)	5.57 / 5.56	5.54 / 5.53	
Right VDC gas flow (top/bottom)	2.763 / 9.230	2.716 / 10.416	
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?	3.89 / 3.96	3.89 / 3.96	
Right VDC HV on (top/bottom) ?	3.85 / 3.84	3.84 / 3.82	
Left S0/S1/S2 HV on ?	✓	✓	
Right S0/S1/S2 HV on ?	✓	✓	
Left Cerenkov HV on ?	✓	✓	
BigBite Angle	54°	54°	
BigBite Current	390 A	390	
BigBite E HV?	ON	✓	
BigBite dE HV?	ON	✓	
BigBite Chamber HV?	ON	✓	
BigBite Front WC HV	1550	1550	
BigBite Back WC HV	1550	1550	
BigBite prescale PS6/PS7	1 / 485		
BigBite rates T6/T7	1844 Hz / 4692 Hz		
BigBite Gas Bubbling?	✓	✓	
Latest run number	2560	2587	
Computer deadtime	15%	16%	
Right prescale PS1/PS2	47760 / 84570		
Left prescale PS3/PS4	2000 / 400		
Right rates T1/T2	4.764 x 10 ⁵ / 8.51 x 10 ⁵		
Left rates T3/T4	1.81 x 10 ⁴ / 3620 Hz		
Coincidence Prescale	1		
Coincidence Rate T5	1154 Hz		
BigBite prescale			
BigBite rates T6/T7	1844 Hz / 4692 Hz		

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Day
Shift:

PS1=47760 PS2=84570, PS3=2000, PS4=400, PS5=PS6=1
PS7=485, PS8=100

E04-007 Shift check List

Date: 4/9/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	05:06	11:00	23:30
Your Name	Mitra S.	Geeta	B Norum
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	1193.56	1193.56	1193.35
Beam Current (uA)	4.8	4.8	3.9
SPOT size X/Y (mm)	Raster off	Raster off	Raster off
Beam Position at 1H04A X/Y (mm)	-0.492 / 0.700	-0.365 / -0.331	-1.025 / 1.700
Beam Position at 1H04B X/Y (mm)	-1.006 / 1.694	-0.842 / 1.391	-0.988 / 1.701
Hall A beam position feedback	ON	On	on
Wien angle	-40.20	-40.20	-40.20
Target type	LH2	LH2	LH2
Target pump speed (Hz)	36 Hz	36	36
Target temperature	20.00	20	20
Target pressure	22.91	22.91	22.9
Left Arm Angle	16.5°	16.5°	14.5
Left Arm Collimator	Open (0.8712m)	open 0.8712	0.8712
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Left Arm Momentum (GeV/c)	0.9861	0.9860	0.997
Left Arm NMR ok ?	✓	✓	✓
Left Arm Quad #1 (A)	741.871	741.924	750.202
Left Arm Quad #2 (A)	424.60	424.60	429.25
Left Arm Dipole (A)	327.35	327.36	330.88
Left Arm Quad #3 (A)	392.59	392.58	396.95
Right Arm Angle	105°	105°	105
Right Arm Collimator	0	0	0
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Right Arm Momentum (GeV/c)	0.473	0.47350	0.4735
Right Arm NMR ok ?	✓	✓	✓
Right Arm Quad #1 (A)	356.008	356.062	356.062
Right Arm Quad #2 (A)	203.72	203.72	203.72
Right Arm Dipole (A)	162.98	162.98	162.98
Right Arm Quad #3 (A)	188.41	188.41	188.41

Date: 4/9/2008

	Owl	Day	Swing
Argon pressure (PSI)	2160.645	1738.062	792.119
Ethane pressure (PSI)	362.109	384.375	395.50
CO2 pressure (PSI)	466.113	362.988	598.54
Left VDC gas flow (top/bottom)	5.54 / 5.53	5.55 / 5.54	5.54 / 5.53
Right VDC gas flow (top/bottom)	2.738 / 8.211	2.496 / 8.956	2.595 / 9.139
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?	3.89 / 3.96	3.89 / 3.95	3.89 / 3.96
Right VDC HV on (top/bottom) ?	3.84 / 3.84	3.84 / 3.84	3.84 / 3.84
Left S0/S1/S2 HV on ?	✓	✓	✓
Right S0/S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?	✓	✓	✓
BigBite Angle	54°	54°	54°
BigBite Current	390A	390A	390A
BigBite E HV?	ON	✓	✓
BigBite dE HV?	ON	✓	✓
BigBite Chamber HV?	ON	✓	✓
BigBite Front WC HV	1500	1500	1500
BigBite Back WC HV	1500	1500	1500
BigBite prescale PS6/PS7	1 / 470	1 / 470	1 / 470
BigBite rates T6/T7			
BigBite Gas Bubbling?	✓	✓	✓
Latest run number	2603	2628	2674
Computer deadtime	13%	0	7%
Right prescale PS1/PS2	46000 / 83000	46000 / 83000	✓
Left prescale PS3/PS4	1800 / 360	1800 / 360	✓
Right rates T1/T2	$4.6 \times 10^5 \text{ Hz} / 8.14 \times 10^5 \text{ Hz}$	$4.737 \times 10^5 / 8.46 \times 10^5$	✓
Left rates T3/T4	$1.76 \times 10^4 \text{ Hz} / 3.54 \times 10^4 \text{ Hz}$	$1.78 \times 10^4 / 3.62 \times 10^4$	✓
Coincidence Prescale	1	1	✓
Coincidence Rate T5	$1.08 \times 10^3 \text{ Hz}$	7.35×10^2	✓
BigBite prescale			
BigBite rates T6/T7			

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E04-007 Shift check List

Date: 4/10/08

	Owl	Day	Swing
Time (hh/mm,24:00)	01:15	15:15	21:00
Your Name	KHAMIR ARDUSKA	R. Michaels	Kevin FISSUM
Visual Hall Inspection	✓		✓
Beam Energy (MeV)	1193	1193	1193.56
Beam Current (uA)	4.0	2-9	3.00
SPOT size X/Y (mm)	raster off	no raster	no raster
Beam Position at 1H04A X/Y (mm)	-0.482 0.671	-0.5, 0.69	-0.485 / 0.682
Beam Position at 1H04B X/Y (mm)	-0.988 1.700	-0.97, 1.69	-0.981 / 1.680
Hall A beam position feedback	✓ ON	on	on
Wien angle		-40.20	
Target type	LH2 6cm	LH2 6cm	LH2 6cm
Target pump speed (Hz)	36	36	36
Target temperature	20	20	20
Target pressure	22.9	22.9	23.0
Left Arm Angle	14.5	12.5	12.50
Left Arm Collimator	open (.087)	open	open (0.8712)
Left Cryo level OK ? (He>60%, N>25%)	OK	ok	OK
Left Arm Momentum (GeV/c)	0.997	1.007	1.007
Left Arm NMR ok ?	OK	ok	OK
Left Arm Quad #1 (A)	750.2	757.6	757.626
Left Arm Quad #2 (A)	429.25	433.6	433.61
Left Arm Dipole (A)	330.89	334.2	334.28
Left Arm Quad #3 (A)	396.94	400.9	400.79
Right Arm Angle	105.0	105	105.001
Right Arm Collimator	None (0.0)	none	None (-0.1023)
Right Cryo level OK ? (He>60%, N>25%)	OK	ok	OK
Right Arm Momentum (GeV/c)	0.473	0.4735	0.473
Right Arm NMR ok ?	OK	ok	OK
Right Arm Quad #1 (A)	356	356.1	356.062
Right Arm Quad #2 (A)	203.7	203.7	203.72
Right Arm Dipole (A)	162.98	162.98	162.97
Right Arm Quad #3 (A)	188.41	188.41	188.41

Date:

	Owl	Day	Swing
Argon pressure (PSI)	668	1956.7	1470.117
Ethane pressure (PSI)	395	507.4	453.809
CO2 pressure (PSI)	589	691.7	672.121
Left VDC gas flow (top/bottom)	5.53/5.9	5.56 / 5.55	5155 / 5154
Right VDC gas flow (top/bottom)	2.46/8.7	2.64 / 8.64	2,635 / 8,569
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?	3.00 / 4.00	4 / 4	3,983 / 4,000
Right VDC HV on (top/bottom) ?	3.98 / 3.99	4 / 4	4,002 / 4,010
Left S0/S1/S2 HV on ?	ON	yes	yes
Right S0/S1/S2 HV on ?	ON	yes	yes
Left Cerenkov HV on ?	ON	yes	yes
BigBite Angle	54°	54°	54°
BigBite Current	388	388	388
BigBite E HV?	OK	ok	OK
BigBite dE HV?	OK	ok	OK
BigBite Chamber HV?	OK	ok	OK
BigBite Front WC HV	OK	ok	OK
BigBite Back WC HV	OK	ok	OK
BigBite prescale PS6/PS7		2 / 930	2 / 930
BigBite rates T6/T7		1957 / 9800	1887 / 9206
BigBite Gas Bubbling?	YAP		yes
Latest run number	2681	2737	2760
Computer deadtime	8	9	5
Right prescale PS1/PS2	40k / 70k	28,000 / 5300	28000 / 53000
Left prescale PS3/PS4	2500 / 500	3400	3400 / 800
Right rates T1/T2	$3.8 \cdot 10^5 / 7.0 \cdot 10^5$	302k / 567k	275k / 502k
Left rates T3/T4	$2.3 \cdot 10^4 / 4.5 \cdot 10^3$	37k / 7500	34k / 6500
Coincidence Prescale PS8	1	ps5=2 ps8=100	ps5=2 ps8=100
Coincidence Rate T8	$1.024 \cdot 10^3$	T5=1173 T6=1975	T5=934 T6=1676
BigBite prescale	1 1	ps5=2 ps6=930	ps5=2 ps6=2
BigBite rates T5/T6	$9.1 \cdot 10^2 / 1.6 \cdot 10^3$	T6=1971	T6=1676 T7=9400

T7=9761

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E04-007 Shift check List

Date:

	Owl	Day	Swing
Time (hh/mm,24:00)	06:30	14:25	23:45
Your Name	DAVE H	Cecilia	E. Cudar
Visual Hall Inspection	ok	✓	ok
Beam Energy (MeV)	1192.80	1193.56	1193.5
Beam Current (uA)	3.11 uA	0	2.8
SPOT size X/Y (mm)	reset off	/	off
Beam Position at 1H04A X/Y (mm)	-0.5 / 0.68	/	-0.5 0.3
Beam Position at 1H04B X/Y (mm)	-1.04 / 1.7	/	-1 1.7
Hall A beam position feedback	ON	/	ON
Wien angle	-40.20	/	-40.2
Target type	6cm LH ₂	LH ₂	LH ₂
Target pump speed (Hz)	36	36	36
Target temperature	20 20	20	20
Target pressure	23	23.06	23.
Left Arm Angle	12.5°	12.5	12.5
Left Arm Collimator	OPEN	open 0.8712	open
Left Cryo level OK ? (He>60%, N>25%)	ok	✓	
Left Arm Momentum (GeV/c)	1.007	1.007	1.007
Left Arm NMR ok ?	ok	✓	✓
Left Arm Quad #1 (A)	757.626	757.626	757.62
Left Arm Quad #2 (A)	433.61	433.61	433.6
Left Arm Dipole (A)	334.27	334.27	334.2
Left Arm Quad #3 (A)	400.93	400.86	400.86
Right Arm Angle	105°	105	105
Right Arm Collimator	0	0	0
Right Cryo level OK ? (He>60%, N>25%)	ok	✓	✓
Right Arm Momentum (GeV/c)	0.4735	0.4735	0.473
Right Arm NMR ok ?	ok	✓	0.47 ✓
Right Arm Quad #1 (A)	356.062	356.062	356.7
Right Arm Quad #2 (A)	203.72	203.72	203.7
Right Arm Dipole (A)	162.97	162.97	162.97
Right Arm Quad #3 (A)	188.41	188.41	188.41

continue next page

Date:

	Owl	Day	Swing
Argon pressure (PSI)	728.906	139.160	2018
Ethane pressure (PSI)	423.047	560.449	528
CO2 pressure (PSI)	621.387	747.07	743
Left VDC gas flow (top/bottom)	5.56/5.54	5.56/5.55	5.56/5.55
Right VDC gas flow (top/bottom)	2.54/9.64	2.689/9.026	2.55/9.05
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?	4.0/4.0	3.89/3.96	4 / 4
Right VDC HV on (top/bottom) ?	4.0/4.0	3.84/3.84	4 / 4
Left SV /S1/S2 HV on ?	ok	✓	✓
Right SV /S1/S2 HV on ?	ok	✓	✓
Left Cerenkov HV on ?	ok	✓	✓
BigBite Angle	54°	54	54
BigBite Current	390 A	388 390	390
BigBite E HV?	ok	✓	✓
BigBite dE HV?	ok	✓	✓
BigBite Chamber HV?	ok	✓	✓
BigBite Front WC HV	ok	✓	✓
BigBite Back WC HV	ok	✓	✓
BigBite prescale PS6/PS7			
BigBite rates T6/T7			
BigBite Gas Bubbling?	ok	✓	
Latest run number	2779		2813
Computer deadtime	8	No Beam	9
Right prescale PS1/PS2	30000/57000		25k/29k
Left prescale PS3/PS4	3600/750		3000/3300
Right rates T1/T2	$3 \times 10^5 / 5.7 \times 10^5$		$2 \cdot 10^5 / 4.7 \cdot 10^5$
Left rates T3/T4	$3.6 \times 10^4 / 7600$		33k/6.8k
Coincidence Prescale (PS5/PS6) PS8	1024 100		100
Coincidence Rate T5 PS8 T8	1024		1024
BigBite prescale (ps5/ps6)	2 2		1 / 1
BigBite rates T5/T6	$1.1 \times 10^3 / 2.1 \times 10^3$		1k/1.5k

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E04-007 Shift check List

Date: 4/12

	Owl	Day	Swing
Time (hh/mm,24:00)	06:30	17:30	23:30
Your Name	DAVE H	Wang	Azdarshev
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	1193.34	1.19339	1.19356
Beam Current (uA)	3.181	2.8	0
SPOT size X/Y (mm)	-	-	-
Beam Position at 1H04A X/Y (mm)	-0.513/0.266	-0.38 / 0.038	-
Beam Position at 1H04B X/Y (mm)	-1.007/ 1.684	-0.981 / 1.669	-
Hall A beam position feedback	ON	ON	-
Wien angle	-40.2		-
Target type	LH2	Ta	Ta
Target pump speed (Hz)	36	36	36
Target temperature	20.0	20.0	20
Target pressure	23.0	18.22 23.0 ← cell_vpt display	23.44
Left Arm Angle	12.5°	12.5	12.5
Left Arm Collimator	OPEN	open	open
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Left Arm Momentum (GeV/c)	1.007	1.194	1.194
Left Arm NMR ok ?	✓	✓	✓
Left Arm Quad #1 (A)	757.626	898.299	898.299
Left Arm Quad #2 (A)	433.61	514.19	514.19
Left Arm Dipole (A)	334.27	397.51	397.51
Left Arm Quad #3 (A)	400.79	475.34	475.34
Right Arm Angle	105°	105	105
Right Arm Collimator	0	✓	0
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Right Arm Momentum (GeV/c)	0.4735	✓	0.47350
Right Arm NMR ok ?	✓	✓	✓
Right Arm Quad #1 (A)	356.06	356.008	356.062
Right Arm Quad #2 (A)	203.72	203.72	203.72
Right Arm Dipole (A)	162.97	162.98	162.98
Right Arm Quad #3 (A)	188.41	188.41	188.41

Date:

	Owl	Day	Swing
Argon pressure (PSI)	1440.82	665.639	2537.988
Ethane pressure (PSI)	493.066	542.852	490.137
CO2 pressure (PSI)	705.176	754.395	698.145
Left VDC gas flow (top/bottom)	5.55/5.54	5.56/5.54	(5.56/5.54)
Right VDC gas flow (top/bottom)	2.54/8.57	2.515/8.575	
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?	4/4	4/4	4/4
Right VDC HV on (top/bottom) ?	4/4	4/4	4/4
Left S0/S1/S2 HV on ?	✓	✓	✓
Right S0/S1/S2 HV on ?	✓		✓
Left Cerenkov HV on ?	✓		
BigBite Angle	54°	48	48
BigBite Current	390A	390	390
BigBite E HV?	✓	✓	✓
BigBite dE HV?	✓	✓	✓
BigBite Chamber HV?	✓	✓	✓
BigBite Front WC HV	✓	✓	✓
BigBite Back WC HV	✓	✓	✓
BigBite prescale PS6/PS7		 	
BigBite rates T6/T7			
BigBite Gas Bubbling?	✓	✓	✓
Latest run number	2853	2879	2882
Computer downtime	13		cosmics - 0
BigBite prescale PS1/PS2 BB	30000/57000	3280/2867	1,1
Left prescale PS3/PS4	3700/3700	3/1	1,1
Right rates T1/T2 BB	$3.17 \times 10^5 / 6.0 \times 10^5$		
Left rates T3/T4	$3.88 \times 10^4 / 3.88 \times 10^4$		
Coincidence Prescale PS5/PS6	1/1	1/1	cosmics
Coincidence Rate T5/TC	$1.24 \times 10^3 / 2.2 \times 10^3$		data
BigBite prescale PS7 PS7	3700	300	LA LMS
BigBite rates T6/T7 T7 rate	3.85×10^4		

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E04-007 Shift check List

Date: 4/13/08

	Owl	Day	Swing
Time (hh/mm,24:00)	05:03	12:14	4:15
Your Name	Mitra S.	C. FERNANDEZ	K. Wang
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	1193.4	1193.6	1193.44
Beam Current (uA)	2.5	2.2	2.3
SPOT size X/Y (mm)	Raster off	Raster off	Raster off
Beam Position at 1H04A X/Y (mm)	-0.509 / 0.738	-0.419 / 0.750	-0.434 / 0.682
Beam Position at 1H04B X/Y (mm)	-0.983 / 1.715	-1.037 / 1.800	-1.007 / 1.680
Hall A beam position feedback	ON	ON	ON
Wien angle	-40.20	-40.203	-40.20
Target type	LH2	L1	L1
Target pump speed (Hz)	36	36	36
Target temperature	20.0	20	20
Target pressure	23.0	23.1	23.4
Left Arm Angle	12.5°	12.5	12.5
Left Arm Collimator	Open (0.8713 m)	OPEN (0.8713)	open 0.8713
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Left Arm Momentum (GeV/c)	1.007	1.007	1.007
Left Arm NMR ok ?	✓	✓	✓
Left Arm Quad #1 (A)	757.626	757.626	757.679
Left Arm Quad #2 (A)	433.55	433.56	433.55
Left Arm Dipole (A)	334.18	334.18	334.17
Left Arm Quad #3 (A)	400.90	400.91	400.91
Right Arm Angle	105°	105.001	105
Right Arm Collimator	0	0	0
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Right Arm Momentum (GeV/c)	0.473	0.47346	0.4735
Right Arm NMR ok ?	✓	✓	✓
Right Arm Quad #1 (A)	356.062	356.008	356.06
Right Arm Quad #2 (A)	203.72	203.72	203.72
Right Arm Dipole (A)	162.97	162.97	162.98
Right Arm Quad #3 (A)	188.38	188.39	188.38

Date: 4/13/08

	Owl	Day	Swing
Argon pressure (PSI)	2062.793	154.723	122/
Ethane pressure (PSI)	444.141	481.641	470
CO2 pressure (PSI)	643.945	629.590	610
Left VDC gas flow (top/bottom)	5.54/5.53	5.57/5.55	2.94/9.36
Right VDC gas flow (top/bottom)	2.462/8.929	2.618/9.450	5.54/5.53
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?	3.89 / 3.96	3.89 / 3.90	3.89 / 4.0
Right VDC HV on (top/bottom) ?	3.85/3.84	3.84 / 3.84	3.88/3.89
Left S0/S1/S2 HV on ?	✓	✓	✓
Right S0/S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?	✓	✓	✓
BigBite Angle	48°	48°	48
BigBite Current	390 A	332.1 A	388
BigBite E HV?	✓	✓	✓
BigBite dE HV?	✓	✓	✓
BigBite Chamber HV?	✓	✓	✓
BigBite Front WC HV	1500	1500	1500
BigBite Back WC HV	1500	1500	1500
BigBite prescale PS6/PS7	1 / 2800	1 / 2900	1 / 2900
BigBite rates T6/T7	1865 / 29970 Hz	1.5·10 ³ / 2.7·10 ⁴	1765 / 29300
BigBite Gas Bubbling?	✓	✓	✓
Latest run number	2889	2925	2927
Computer deadtime	12%	~12%	11
Right prescale PS1/PS2	34000 / 61300	38000 / 68000	3600 / 66000 1/20000
Left prescale PS3/PS4	2700 / 554	533 / 1	2900 / 583
Right rates T1/T2	3.74·10 ³ / 6.787·10 ³ Hz	3.505·10 ³ / 6.664·10 ³ Hz	3.66 E5, 5.9 E5
Left rates T3/T4	3.012·10 ⁴ / 6000 Hz	2.8·10 ⁴ / 5.8·10 ³ Hz	29160 / 5912
Coincidence Prescale	1	1	1
Coincidence Rate T5	1137	9.7·10 ² Hz	
BigBite prescale (PS1, PS2, PS5, PS6)	1	1	3600 / 6600 / 1 / 1
BigBite rates T6/T7			

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E04-007 Shift check List

Date: 4/14/08

	Owl	Day	Swing
Time (hh/mm,24:00)	05:10	14:35	
Your Name	Mitra S.	J.P. Chen	
Visual Hall Inspection	✓	✓	
Beam Energy (MeV)	1193.23	1193.40	
Beam Current (uA)	2.35	2.3	
SPOT size X/Y (mm)	Raster off	Raster off	
Beam Position at 1H04A X/Y (mm)	-0.428/0.678	-0.406/0.697	
Beam Position at 1H04B X/Y (mm)	-0.997/1.70	-0.970/1.680	
Hall A beam position feedback	ON	On	
Wien angle	-40.2	-40.203	
Target type	LH2	LH2	
Target pump speed (Hz)	36	36	
Target temperature	20	20	
Target pressure	23.25	24.3	
HALOG Target Screens	✓	✓	
Left Arm Angle	12.5°	12.5°	
Left Arm Collimator	Open (0.9713m)	OPEN	
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	
Left Arm Momentum (GeV/c)	1.007	1.007	
Left Arm NMR ok ?	✓	✓	
Left Arm Quad #1 (A)	757.626	756.626	
Left Arm Quad #2 (A)	433.56	433.56	
Left Arm Dipole (A)	334.16	334.16	
Left Arm Quad #3 (A)	400.90	400.90	
Right Arm Angle	105°	105°	
Right Arm Collimator	0	—	
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	
Right Arm Momentum (GeV/c)	0.473	0.4735	
Right Arm NMR ok ?	✓	✓	
Right Arm Quad #1 (A)	356.008	356.008	
Right Arm Quad #2 (A)	203.72	203.72	
Right Arm Dipole (A)	162.98	162.98	
Right Arm Quad #3 (A)	188.38	188.39	

Date: 4/14/08

	Owl	Day	Swing
Argon pressure (PSI)	223.242	2027	
Ethane pressure (PSI)	344.824	398	
CO2 pressure (PSI)	335.863	100	
Left VDC gas flow (top/bottom)	5.54 / 5.54	5.55 / 5.54	
Right VDC gas flow (top/bottom)	2.938 / 8.990	2.4 / 9.0	
Left VDC HV on (top/bottom) ?	3.89 / 3.96	4 / 4	
Right VDC HV on (top/bottom) ?	3.85 / 3.84	4 / 4	
Left S1/S2 HV on ?	✓	✓	
Right S1/S2 HV on ?	✓	✓	
Left Cerenkov HV on ?	✓	✓	
BigBite Angle	48°	48°	
BigBite Current	390 A	390 A	
BigBite dE HV OK?	✓	✓	
BigBite E HV OK?	✓	✓	
BigBite Front WC HV (V)	1500	1500	
BigBite Back WC HV (V)	1500	1500	
BigBite Gas Bubbling?	✓	2 bubbles, 3rd not	
Latest run number	2984	3029	
Computer deadtime	9%	11%	
Data Rate (L1)			
Right Arm pre	I : 1522	4856	
BigBite prescal	D : 1815	5231	
Left prescale P			
Coincidence Pr			
Right Arm rate	← ?		
BigBite rates T1/T2			$\times 10^3$
Left rates T3/T4/T7	$5.6 \times 10^4 / 6.6 \times 10^4$	$5.6 \times 10^4 / 6.1 \times 10^4$	
Coincidence Rate T5/T6	$2.86 \times 10^4 / 5.7 \times 10^3 / 2.76 \times 10^4$	$2.9 \times 10^4 / 5.8 \times 10^3 / 2.8 \times 10^4$	
	1029 / 1725	1079 / 1820	

? Left

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Last revision : 13-April-2008

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E04-007 Shift check List

Date: 4/15/08

	Owl	Day	Swing
Time (hh/mm,24:00)	02:25		23:30
Your Name	C. FERNANDEZ		Xiaohui zhan
Visual Hall Inspection	OK		OK.
Beam Energy (MeV)	1193.34		/
Beam Current (uA)	2.3		0
SPOT size X/Y (mm)	Raster off		/
Beam Position at 1H04A X/Y (mm)	-0.452/0.583		/
Beam Position at 1H04B X/Y (mm)	-0.997/1.656		/
Hall A beam position feedback	ON		
Wien angle	-40.203		-40.203
Target type	LH2 (col)		Empty
Target pump speed (Hz)	36		
Target temperature	20		20.5
Target pressure	23.32		24.08
HALOG Target Screens	✓		✓
Left Arm Angle	12.5°		14.5
Left Arm Collimator	OPEN (0.8712)		OPEN
Left Cryo level OK ? (He>60%, N>25%)	OK		OK
Left Arm Momentum (GeV/c)	1.007		1.194
Left Arm NMR ok ?	✓		✓
Left Arm Quad #1 (A)	257.620		298.512
Left Arm Quad #2 (A)	433.56		514.16
Left Arm Dipole (A)	334.16		397.78
Left Arm Quad #3 (A)	400.90		475.33
Right Arm Angle	105.001		105.001
Right Arm Collimator	—		—
Right Cryo level OK ? (He>60%, N>25%)	✓		✓
Right Arm Momentum (GeV/c)	0.4735		0.47346
Right Arm NMR ok ?	✓		✓
Right Arm Quad #1 (A)	356.062		356.062
Right Arm Quad #2 (A)	203.72		203.88
Right Arm Dipole (A)	162.98		163.31
Right Arm Quad #3 (A)	188.39		188.37

Date:

	Owl	Day	Swing
Argon pressure (PSI)	1086.035		1684.277
Ethane pressure (PSI)	321.387		356.836
CO2 pressure (PSI)	487.793		522.656
Left VDC gas flow (top/bottom)	3.89 / 3.95		2.638 / 2.972
Right VDC gas flow (top/bottom)	3.89 / 3.95		2.638 / 8.9
Left VDC HV on (top/bottom) ?	3.89 / 3.96		4 / 4
Right VDC HV on (top/bottom) ?	3.84 / 3.84		4 / 4
Left S1/S2 HV on ?	ON		ON
Right S1/S2 HV on ?	ON		ON
Left Cerenkov HV on ?	ON		
BigBite Angle	48°		48°
BigBite Current	390		390
BigBite dE HV OK?	✓		✓
BigBite E HV OK?	✓		✓
BigBite Front WC HV (V)	4500		4500
BigBite Back WC HV (V)	4500		4500
BigBite Gas Bubbling?	✓		✓
Latest run number	3075		3107
Computer deadtime	~		~
Data Rate (L1A)			
Right Arm prescale PS1/PS2	✓ / 2000 ~		
BigBite prescale PS1/PS2	29000 / 57000		
Left prescale PS3/PS4/PS7	2900 / 583 / 2900		
Coincidence Prescale PS5/PS6	1 / 1		
Right Arm rates T1/T2	$2.7 \cdot 10^5 / 5.4 \cdot 10^5$		
BigBite rates T1/T2	$2.7 \cdot 10^5 / 5.4 \cdot 10^5$		
Left rates T3/T4/T7	$2.4 \cdot 10^4 / 5.8 \text{ kHz} / 2.8 \cdot 10^4$		
Coincidence Rate T5/T6	$8 \cdot 10^2 / 1.4 \cdot 10^3$		

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E04-007 Shift check List

Date: 4/16/08

	Owl	Day	Swing
Time (hh/mm,24:00)	07:28	13:00	18:55
Your Name	Mitra S	J. LeRose	S. JIRCA
Visual Hall Inspection	OK	OK	OK
Beam Energy (MeV)	1193.23	1193.22	1193.22
Beam Current (uA)			3.7
SPOT size X/Y (mm)	Raster off	Raster off	OFF
Beam Position at 1H04A X/Y (mm)	-0.409 / 0.760	-0.399 / 0.767	-0.4 / 0.8
Beam Position at 1H04B X/Y (mm)	-0.980 / 1.700	-1.010 / 1.680	-1.0 / 1.7
Hall A beam position feedback	ON	ON	ON
Wien angle	-40.2	6cm Hz	
Target type	Al Dummy	6cm Litz	6cm Litz
Target pump speed (Hz)	19	29 Hz	29 Hz
Target temperature	20.5	20 K	20.5 K
Target pressure	23.44	24.09	25.2
HALOG Target Screens	✓	✓	✓
Left Arm Angle	14.5°	14.5°	14.5°
Left Arm Collimator	Open (0.8712m)	Open	Open
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Left Arm Momentum (GeV/c)	1.1942	0.997	0.997
Left Arm NMR ok ?	✓	✓	✓
Left Arm Quad #1 (A)	898.459	750.149	750.149
Left Arm Quad #2 (A)	514.16	429.35	429.35
Left Arm Dipole (A)	397.78	331.12	331.11
Left Arm Quad #3 (A)	475.33	396.83	396.83
Right Arm Angle	105°	105	105°
Right Arm Collimator	0	0	-0.0085m
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Right Arm Momentum (GeV/c)	0.4735	0.4735	0.4735
Right Arm NMR ok ?	✓	✓	✓
Right Arm Quad #1 (A)	356.062	356.062	356.062
Right Arm Quad #2 (A)	203.88	203.88	203.88
Right Arm Dipole (A)	163.31	163.31	163.31
Right Arm Quad #3 (A)	188.37	188.37	188.37

Date: 4/16/08

	Owl	Day	Swing
Argon pressure (PSI)	1130.566	719	264
Ethane pressure (PSI)	306.152	455	434
CO2 pressure (PSI)	452.344	557	570
Left VDC gas flow (top/bottom)	5.53 / 5.51	5.55 / 5.54	5.5 / 5.5
Right VDC gas flow (top/bottom)	2.636 / 9.246	2.551 / 8.44	2.6 / 9.1
Left VDC HV on (top/bottom) ?	3.89 / 3.96	3.983 / 3.997	4 / 4
Right VDC HV on (top/bottom) ?	3.84 / 3.84	4.002 / 4.005	4 / 4
Left S1/S2 HV on ?	✓	✓	✓
Right S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?			
BigBite Angle	480	480	480°
BigBite Current	390	390 set, 388.1 <small>slow</small>	388.1 RB
BigBite dE HV OK?	✓	✓	✓
BigBite E HV OK?	✓	✓	✓
BigBite Front WC HV (V)	1500	1500	1500
BigBite Back WC HV (V)	1500	1500	1500
BigBite Gas Bubbling?	✓		✓
Latest run number	3135	3166	3197
Computer deadtime	6	1670	13%
Data Rate (LIA)	1.73	1.7k	1.7k
Right Arm prescale PS1/PS2	1 / 20k	1 / 20k	1 / 20k
BigBite prescale PS1/PS2	48k / 80k	48k / 80k	55k / 95k
Left prescale PS3/PS4/PS7	2300 / 60 / 2000	2300 / 60 / 2000	2800 / 80 / 2400
Coincidence Prescale PS5/PS6	1 / 1	1 / 1	1 / 1
Right Arm rates T1/T2	14 / 9	12 / 8	14 / 9
BigBite rates T1/T2	480k / 837k	560k / 962k	553k / 951k
Left rates T3/T4/T7	25k / 900 / 20k	28k / 784 / 23k	28k / 791 / 23k
Coincidence Rate T5/T6	1k / 1.6k	1.3k / 2.0k	1.3k / 2.0k

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Last revision : 13-April-2008

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E04-007 Shift check List

For Wien go to
Tools in Monticello
& pick
General Tools.
Wien is at top next
to title.

Date: 04/17/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	04:30	13:50	22:26
Your Name	C. FERNANDEZ	R. Michaels	H. MIHOVILIC
Visual Hall Inspection	OK	ok	✓
Beam Energy (MeV)	1193.56	1193.34	1193.18
Beam Current (uA)	3.715	3.4	3.98
SPOT size X/Y (mm)	Raster off	No raster	Raster off
Beam Position at 1H04A X/Y (mm)	-0.327/0.759	-0.4, 0.77	-0.349/0.787
Beam Position at 1H04B X/Y (mm)	-0.988/1.727	-0.99, 1.72	-1.015/1.703
Hall A beam position feedback	ON	on	on
Wien angle	-40.203	-40.2	
Target type	LH2 loop 2	LH2 loop 1	LH2 loop 1
Target pump speed (Hz)	29	29	29
Target temperature	20	20	20
Target pressure	25	25.9	26.1
HALOG Target Screens	OK		OK
Left Arm Angle	14.5	16.5	16.5
Left Arm Collimator	OPEN (0.2712)	open	open
Left Cryo level OK ? (He>60%, N>25%)	✓	✓ yes	✓
Left Arm Momentum (GeV/c)	0.997	0.986	0.986
Left Arm NMR ok ?	✓	✓ yes	✓
Left Arm Quad #1 (A)	750.149	741.92	741.871
Left Arm Quad #2 (A)	429.35	424.61	424.61
Left Arm Dipole (A)	331.11	327.44	329.43
Left Arm Quad #3 (A)	396.82	392.42	392.42
Right Arm Angle	105.001	105.0	105.0
Right Arm Collimator	+	open?	-0.0088m
Right Cryo level OK ? (He>60%, N>25%)	✓	yes ,0088	✓
Right Arm Momentum (GeV/c)	0.4735	0.4735	0.4735
Right Arm NMR ok ?	✓	yes	✓
Right Arm Quad #1 (A)	356.008	356.008	356.008
Right Arm Quad #2 (A)	203.88	203.72	203.72
Right Arm Dipole (A)	163.31	163.09	163.06
Right Arm Quad #3 (A)	188.37	188.50	188.50

Date: 04/17/2008

	Owl	Day	Swing
Argon pressure (PSI)	1852.441	1282.3	621.094
Ethane pressure (PSI)	326.367	476.5	442.090
CO2 pressure (PSI)	456.445	463.5	242.576
Left VDC gas flow (top/bottom)	5.52/5.51	5.55 / 5.53	5.53/5.51
Right VDC gas flow (top/bottom)	2.53/2.7	2.60 / 2.82	2.536 / 2.737
Left VDC HV on (top/bottom) ?	3.89 / 3.95	3.84 / 3.84	3.990 / 3.998
Right VDC HV on (top/bottom) ?	3.84 / 3.84	3.89 / 3.96	4.002 / 4.003
Left S1/S2 HV on ?	on	on	on
Right S1/S2 HV on ?	on	on	on
Left Cerenkov HV on ?	on	on	on
BigBite Angle	48°	48	48
BigBite Current	390	388	388.1
BigBite dE HV OK?	OK	ok	✓
BigBite E HV OK?	OK	ok	✓
BigBite Front WC HV (V)	1500	1500	1500
BigBite Back WC HV (V)	1500	1500	1500
BigBite Gas Bubbling?	NR	yes	✓
Latest run number	3244	3276	3306
Computer deadtime	~15%	3%	5%
Data Rate (L1A)	1.7k	1183	1263
Right Arm prescale PS1/PS2	1 / 20000	1 / 1	1 / 1
BigBite prescale PS1/PS2	55000 / 95000	53k / 90k	53k / 90k
Left prescale PS3/PS4/PS7	2800 / 80 / 2400	1500 / 40 / 1300	1500 / 40 / 1300
Coincidence Prescale PS5/PS6	1 / 1	1 / 1	1 / 1
Right Arm rates T1/T2	15.2 / 9.2	14 / 8	16.7 / 7.0
BigBite rates T1/T2	5.63 · 10 ⁵ / 9.8 · 10 ⁵	528k / 892k	601k / 1.0M
Left rates T3/T4/T7	2.83 · 10 ⁴ / 7.88 · 10 ³ / 2.32 · 10 ⁴	15.6k / 410 / 12.9k	17.6k / 450 / 14k
Coincidence Rate T5/T6	1.3 · 10 ³ / 2 · 10 ³	700 / 1080	866 / 1300

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E04-007 Shift check List

Date: 04/18/08

	Owl	Day	Swing
Time (hh/mm,24:00)	07:10		23:11
Your Name	Nilang		M. MIHOVIC
Visual Hall Inspection	✓		✓
Beam Energy (MeV)	1193.5 MeV		1192.43
Beam Current (uA)	3.8 MA		4.4
SPOT size X/Y (mm)	< 1 mm x 1 mm		No raster
Beam Position at 1H04A X/Y (mm)	-0.39 / 0.78		-0.805 / 0.599
Beam Position at 1H04B X/Y (mm)	-1.00 / 1.69		-1.316 / 1.706
Hall A beam position feedback	ON		ON
Wien angle			-40.20
Target type	LH2 - 6 cm		LH2 - 6 cm
Target pump speed (Hz)	29		29
Target temperature	20		20
Target pressure	26.21		26.17
HALOG Target Screens	✓		✓
Left Arm Angle	16.5		16.5
Left Arm Collimator	open		OPEN
Left Cryo level OK ? (He>60%, N>25%)	Y		✓
Left Arm Momentum (GeV/c)	0.9860		0.9860
Left Arm NMR ok ?	Y		✓
Left Arm Quad #1 (A)	741.92		741.924
Left Arm Quad #2 (A)	424.61		424.61
Left Arm Dipole (A)	327.43		327.44
Left Arm Quad #3 (A)	392.42		392.42
Right Arm Angle	105.0		105°
Right Arm Collimator	Open		-0.0087m
Right Cryo level OK ? (He>60%, N>25%)	Y		✓
Right Arm Momentum (GeV/c)	0.4735		0.45960
Right Arm NMR ok ?	Y		✓
Right Arm Quad #1 (A)	355.95		345.647
Right Arm Quad #2 (A)	203.73		197.77
Right Arm Dipole (A)	163.04		158.18
Right Arm Quad #3 (A)	188.5		182.88

Date:

	Owl	Day	Swing
Argon pressure (PSI)	2096		943.238
Ethane pressure (PSI)	438		492.480
CO2 pressure (PSI)	629		775.781
Left VDC gas flow (top/bottom)	5.5 / 5.5 (2/h)		3.89 / 3.95
Right VDC gas flow (top/bottom)	2.6 / 8.7 (2/h)		3.84 / 3.84
Left VDC HV on (top/bottom) ?	Y		-5.05 / 4.98
Right VDC HV on (top/bottom) ?	Y		-5.08 / 4.97
Left S1/S2 HV on ?	Y		✓
Right S1/S2 HV on ?	Y		✓
Left Cerenkov HV on ?	Y		✓
BigBite Angle	480		480
BigBite Current	388.1		382.1
BigBite dE HV OK?	Y		✓
BigBite E HV OK?	Y		✓
BigBite Front WC HV (V)	1500V		-1500V
BigBite Back WC HV (V)	1500V		-1500V
BigBite Gas Bubbling?			✓
Latest run number	3335		3357
Computer deadtime	59.870 Hz		107.
Data Rate (L1A)	890 Hz		1475 Hz
Right Arm prescale PS1/PS2	1, 1, large, large		1 1
BigBite prescale PS1/PS2			67000 115000
Left prescale PS3/PS4/PS7	53000, 90000, 150000, 1.1		2000 93 1600
Coincidence Prescale PS5/PS6			1 1
Right Arm rates T1/T2			21.7 10
BigBite rates T1/T2			650k 1.1M
Left rates T3/T4/T7			19k 920 16k
Coincidence Rate T5/T6			1080 1584

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E04-007 Shift check List

Date: 04/19/08

	Owl	Day	Swing
Time (hh/mm,24:00)	7:15	14:55	21:10
Your Name	A. CAMSONNE	M. MIHOVILOVIC	D. McNulty
Visual Hall Inspection	OK	✓	✓
Beam Energy (MeV)	1192.3839	1192.5040	1192.57
Beam Current (uA)	4.5	4.8	4.8
SPOT size X/Y (mm)	No raster	No raster	No raster
Beam Position at 1H04A X/Y (mm)	-0.79 / 0.58	-0.780 / 0.606	-0.789 / 0.584
Beam Position at 1H04B X/Y (mm)	-1.3 / 1.69	-1.306 / 1.727	-1.300 / 1.702
Hall A beam position feedback	ON	ON	ON
Wien angle	-40.203	-40.203	-40.203
Target type	LH2	LH2	LH2
Target pump speed (Hz)	29	29	29
Target temperature	20	20	20
Target pressure	26.2	26.12	26
HALOG Target Screens	Y	✓	✓
Left Arm Angle	16.5	16.5	16.5
Left Arm Collimator	OPEN	OPEN	OPEN (0.8712m)
Left Cryo level OK ? (He>60%, N>25%)	Y	✓	✓
Left Arm Momentum (GeV/c)	0.9859	0.9860	0.9860
Left Arm NMR ok ?	Y	✓	✓
Left Arm Quad #1 (A)	741.824	741.871	741.871
Left Arm Quad #2 (A)	424.61	424.61	424.61
Left Arm Dipole (A)	327.44	327.44	327.44
Left Arm Quad #3 (A)	392.42	392.42	392.42
Right Arm Angle	105	105°	105°
Right Arm Collimator	OPEN	-0.0085m	-0.0083m
Right Cryo level OK ? (He>60%, N>25%)	Y	✓	✓
Right Arm Momentum (GeV/c)	0.4596	0.4596	0.45960
Right Arm NMR ok ?	Y	✓	✓
Right Arm Quad #1 (A)	345.6	345.647	345.647
Right Arm Quad #2 (A)	197.77	197.77	197.77
Right Arm Dipole (A)	158.18	158.18	158.18
Right Arm Quad #3 (A)	182.88	182.88	182.88

Date:

	Owl	Day	Swing
Argon pressure (PSI)	323	2817.676	1729.980
Ethane pressure (PSI)	484	532.524	474.609
CO2 pressure (PSI)	726	826.758	792.188
Left VDC gas flow (top/bottom)	2.7 55/55	389/3.96	389/396 2.43/88(2)
Right VDC gas flow (top/bottom)	2.7/3.1	3.84/3.84	3.84/3.84 552/551
Left VDC HV on (top/bottom) ?	3.994/3.996	3.99/3.993	3.89/3.96
Right VDC HV on (top/bottom) ?	4.000/4.004	3.999/4.005	3.84/3.84
Left S1/S2 HV on ?	Y	✓	✓
Right S1/S2 HV on ?	Y	✓	✓
Left Cerenkov HV on ?	Y	✓	✓
BigBite Angle	48° (6) ^{rip}	48°	48°
BigBite Current	388	388.1	388.100
BigBite dE HV OK?	Y	✓	✓
BigBite E HV OK?	Y	✓	✓
BigBite Front WC HV (V)	1500	-1500	-1500
BigBite Back WC HV (V)	1500	-1500	-1500
BigBite Gas Bubbling?	Y	✓	✓
Latest run number	3381	3420	3449
Computer deadtime	12%	14%	13%
Data Rate (L1A)	1400 Hz	1600 Hz	~1500 Hz
Right Arm prescale PS1/PS2	1/1	1/1	1/1
BigBite prescale PS1/PS2	67000/115000	67000/115000	67000/115000
Left prescale PS3/PS4/PS7	2000/53/1600	2000/53/1600	2000/53/1600
Coincidence Prescale PS5/PS6	1/1	1/1	1/1
Right Arm rates T1/T2	17/10	20.5/7.74	18.9/10.5
BigBite rates T1/T2	657k/1.1MHz	712k/1.17M	678k/1.13M
Left rates T3/T4/T7	18kHz/474Hz	21k/570/185	20k/530/17k
Coincidence Rate T5/T6	869/1620 Hz	1280/1920	1.23k/1.8k

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E04-007 Shift check List

Date: 4/20/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	05:24	15:05	22:17
Your Name	M. Shabestari	M. MIHOVILOVIC	Ramesh
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	1192.597	1192.6395	1192.38
Beam Current (uA)	4.6	4.66	4.68
SPOT size X/Y (mm)	Raster off	Raster off	off
Beam Position at 1H04A X/Y (mm)	-0.789/0.611	-0.785/0.607	-0.8/0.606
Beam Position at 1H04B X/Y (mm)	-1.306/1.713	-1.305/1.701	-1.3/1.7
Hall A beam position feedback	ON	ON	on
Wien angle	-40.2	-40.203	-40.2035
Target type	LH2	LH2	LH2
Target pump speed (Hz)	29	29	29
Target temperature	20.0	20.0	20
Target pressure	26.2	26.19	26.24
HALOG Target Screens	✓	✓	✓
Left Arm Angle	16.5°	20.5°	20.50
Left Arm Collimator	Open (87/2 m)	OPEN	open
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Left Arm Momentum (GeV/c)	0.986	0.960	0.96
Left Arm NMR ok ?	✓	✓	✓
Left Arm Quad #1 (A)	741.924	722.271	722.27
Left Arm Quad #2 (A)	424.61	413.40	413
Left Arm Dipole (A)	327.44	318.63	318.6
Left Arm Quad #3 (A)	392.42	382.08	382
Right Arm Angle	105°	105°	105°
Right Arm Collimator	0	-0.0083m	closed (-0.0083)
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Right Arm Momentum (GeV/c)	0.4596	0.4596	0.45960
Right Arm NMR ok ?	✓	✓	✓
Right Arm Quad #1 (A)	345.594	345.647	345.6
Right Arm Quad #2 (A)	197.78	197.77	197.7
Right Arm Dipole (A)	158.18	158.19	158
Right Arm Quad #3 (A)	182.88	182.88	182.88

Date: 4/20/2008

	Owl	Day	Swing
Argon pressure (PSI)	1102.148	350.684	2032
Ethane pressure (PSI)	432.715	410.156	366
CO2 pressure (PSI)	717.773	700.074	671
Left VDC gas flow (top/bottom)	5.53/5.52	5.52/5.51	5.5/5.5
Right VDC gas flow (top/bottom)	2.561/8.581	2.591/4.108	2.36/8.68
Left VDC HV on (top/bottom) ?	3.89/3.95	3.98/3.997	4/4
Right VDC HV on (top/bottom) ?	3.84/3.84	3.998/4.005	4/4
Left S1/S2 HV on ?	✓	✓	✓
Right S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?	✓	✓	✓
BigBite Angle	48°	48°	-48°
BigBite Current	388 A	388.084	388
BigBite dE HV OK?	✓	✓	✓
BigBite E HV OK?	✓	✓	✓
BigBite Front WC HV (V)	1500	1500	~1.5 kV
BigBite Back WC HV (V)	1500	1500	~1.5 kV
BigBite Gas Bubbling?	✓	✓	✓
Latest run number	3490	3518	~3541
Computer deadtime	14 %	0%	0 % ¹ / ₆
Data Rate (L1A)	1500 Hz	830 Hz	757 Hz
Right Arm prescale PS1/PS2	1/1	1/1	2/2
BigBite prescale PS1/PS2	67000/115000	67000/115000	67000/115000
Left prescale PS3/PS4/PS7	2000/53/1600	270/20/650	770/70/650
Coincidence Prescale PS5/PS6	1/1	1/1	1/1
Right Arm rates T1/T2	24.5/9.99	15/10.2	22/9
BigBite rates T1/T2	6.90x10 ⁵ /1.13x10 ⁶	690k/1.13M	535k/1.06M
Left rates T3/T4/T7	20.54kHz/572Hz	8.1k/205/6.7k	7.6k/200/6.5k
Coincidence Rate T5/T6	1183 Hz/1814 Hz	502/736	488/711

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<http://hallaweb.jlab.org/experiment/E04-007/Docs/Shift-Check-List.pdf>

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Last revision : 13-April-2008

Compiled with pdflaTeX

E04-007 Shift check List

Date: 4/21/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	04:33	13:55	23:00
Your Name	M. Shabestari	M. MIHOVILOVIC	E. Chudakov
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	1192.766	1192.3812	1192
Beam Current (uA)	4.7	3.9	4.5
SPOT size X/Y (mm)	Raster off	0.5/0.8	off
Beam Position at 1H04A X/Y (mm)	-0.788/0.606	-0.799/0.602	-0.8/0.6
Beam Position at 1H04B X/Y (mm)	-1.30/1.729	-1.307/1.630	-1.3/1.7
Hall A beam position feedback	ON	ON	ON
Wien angle	-40.2	-40.2	-40.2
Target type	6cm LH2	6cm LH2	6cm LH2
Target pump speed (Hz)	29	29	29
Target temperature	20	20.0	20
Target pressure	26.27	26.16	26.2
HALOG Target Screens	✓	✓	✓
Left Arm Angle	20.5	20.5	20.5
Left Arm Collimator	open (0.8713m)	OPEN	open
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Left Arm Momentum (GeV/c)	0.960	0.960	0.96
Left Arm NMR ok ?	✓	✓	✓
Left Arm Quad #1 (A)	722.271	722.271	722.2
Left Arm Quad #2 (A)	413.40	413.41	413.4
Left Arm Dipole (A)	318.62	318.62	318.6
Left Arm Quad #3 (A)	382.08	382.08	382.2
Right Arm Angle	105°	105°	105
Right Arm Collimator	0	-0.0086m	-0.0083
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Right Arm Momentum (GeV/c)	0.4596	0.45960	0.4596
Right Arm NMR ok ?	✓	✓	✓
Right Arm Quad #1 (A)	345.647	345.647	345.6
Right Arm Quad #2 (A)	197.77	197.77	197.8
Right Arm Dipole (A)	158.18	158.18	158.2
Right Arm Quad #3 (A)	182.88	182.88	182.9

Date: 4/21/2008

	Owl	Day	Swing
Argon pressure (PSI)	1548.340	781.934	119
Ethane pressure (PSI)	332.227	286.816	244
CO2 pressure (PSI)	624.023	595.605	592
Left VDC gas flow (top/bottom)	5.51 / 5.50	5.50 / 5.49	5.52 / 5.50
Right VDC gas flow (top/bottom)	2.625 / 9.327	2.37 / 8.436	2.2 / 7.6
Left VDC HV on (top/bottom) ?	3.89 / 3.96	3.991 / 3.997	4 / 4
Right VDC HV on (top/bottom) ?	3.84 / 3.84	4.003 / 4.008	4 / 4
Left S1/S2 HV on ?	✓	✓	✓
Right S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?	✓	✓	✓
BigBite Angle	48°	48°	42.5
BigBite Current	388.1	388.1	390 (set)
BigBite dE HV OK?	✓	✓	✓
BigBite E HV OK?	✓	✓	✓
BigBite Front WC HV (V)	1500	-1500	1500
BigBite Back WC HV (V)	1500	-1500	1500
BigBite Gas Bubbling?	✓	✓	✓
Latest run number	3554	3582	3597
Computer deadtime	0%	0%	4%
Data Rate (L1A)	771 Hz	630 Hz	900
Right Arm prescale PS1/PS2	1/1	1/1	70k/120k/1/1
BigBite prescale PS1/PS2	67k/115k	67k/115k	70k/120k
Left prescale PS3/PS4/PS7	770/20/650	770/20/650	650/17/550
Coincidence Prescale PS5/PS6	1/1	1/1	1/1
Right Arm rates T1/T2	23 / 9	21 / 11	20 / 9
BigBite rates T1/T2	683k / 1.1M	540k / 973k	1M / 1.5M
Left rates T3/T4/T7	8k / 200 / 6.6k	6.8k / 177 / 5.6k	7k / 180 / 6k
Coincidence Rate T5/T6	420 / 600	387 / 582	590 / 900

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Last revision : 13-April-2008

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E04-007 Shift check List

Date: 4/22/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	04:30	15:30	23:17
Your Name	M. Shabestari	Texarango Jussari	Yi Zhang
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	1192.38	1193.56	1192.3575
Beam Current (uA)	4.8	4.405	4.498
SPOT size X/Y (mm)	Raster off	Raster off	Raster off
Beam Position at 1H04A X/Y (mm)	-0.771 / 0.629	-0.800 / 0.471	-0.803 / 0.482
Beam Position at 1H04B X/Y (mm)	-1.291 / 1.695	-1.309 / 1.702	-1.31 / 1.707
Hall A beam position feedback	ON	ON	ON
Wien angle	-40.2	-40.2	-40.2
Target type	LH2	LH2	LH2
Target pump speed (Hz)	29	29	31
Target temperature	20.00	20.00	20.00
Target pressure	26.29	26.29	26.26
HALOG Target Screens	✓	✓	✓
Left Arm Angle	20.5°	20.5°	20.5°
Left Arm Collimator	open (0.8712 m)	open (0.8712)	open (0.8712)
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Left Arm Momentum (GeV/c)	0.960	0.960	0.960
Left Arm NMR ok ?	✓	✓	✓
Left Arm Quad #1 (A)	722.271	722.271	722.271
Left Arm Quad #2 (A)	413.46	413.26	413.26
Left Arm Dipole (A)	318.62	318.62	318.62
Left Arm Quad #3 (A)	382.20	382.20	382.20
Right Arm Angle	105°	105	105°
Right Arm Collimator	0	0	-0.0087
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Right Arm Momentum (GeV/c)	0.45960	0.45968	0.45960
Right Arm NMR ok ?	✓	✓	✓
Right Arm Quad #1 (A)	345.647	345.647	345.647
Right Arm Quad #2 (A)	197.78	197.78	197.78
Right Arm Dipole (A)	158.18	158.18	158.18
Right Arm Quad #3 (A)	182.89	182.89	182.89

Date: 4/22/2008

	Owl	Day	Swing
Argon pressure (PSI)	2070.410	1303.418	449.219
Ethane pressure (PSI)	212.988	494.117	448.222
CO2 pressure (PSI)	560.156	375.293	131.836
Left VDC gas flow (top/bottom)	5.52 / 5.51		3.84 / 3.83
Right VDC gas flow (top/bottom)	2.686 / 8.647	3.84 / 3.83	3.95 / 3.88
Left VDC HV on (top/bottom) ?	3.89 / 3.96	2.375 / 9.240	4.000 / 4.006
Right VDC HV on (top/bottom) ?	3.84 / 3.84	5.51 / 5.50	3.995 / 5.995
Left S1/S2 HV on ?	✓	✓	✓
Right S1/S2 HV on ?	✓ 3.811	✓	✓
Left Cerenkov HV on ?	✓	✓	✓
BigBite Angle	43.5°	43.5°	43.5°
BigBite Current	388.1	288.1	388.1
BigBite dE HV OK?	✓	✓	✓
BigBite E HV OK?	✓	✓	✓
BigBite Front WC HV (V)	1500	1500	1500
BigBite Back WC HV (V)	1500	1500	1500
BigBite Gas Bubbling?	✓	✓	✓
Latest run number	3613	3629	
Computer deadtime	5%	3%	
Data Rate (L1A)	970	380	
Right Arm prescale PS1/PS2	1 / 1	1 / 1	
BigBite prescale PS1/PS2	70000 / 120000	90,000 / 50000	
Left prescale PS3/PS4/PS7	650 / 17 / 550	830 / 20 / 1	
Coincidence Prescale PS5/PS6	1 / 1	1 / 1	
Right Arm rates T1/T2	23.7 / 9.2	2274 / 10.73	
BigBite rates T1/T2	917 kHz / 1.4 MHz	905 kHz / 1.4 MHz	
Left rates T3/T4/T7	8305 / 2.23 / 6818	8325 / 2.08 / 681	
Coincidence Rate T5/T6	621 / 896	601 / 897	

8305 / 223 / 6818

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Last revision : 13-April-2008

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E04-007 Shift check List

Date: 4/23/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	04:45		23:33
Your Name	Mitra Shabestari		Yi Qiang
Visual Hall Inspection	✓		✓
Beam Energy (MeV)	1192.38		1192.38
Beam Current (uA)	4.8		4.8
SPOT size X/Y (mm)	Raster off		0.12 / 0.12
Beam Position at 1H04A X/Y (mm)	-0.791 / 0.693		-0.787 / 0.658
Beam Position at 1H04B X/Y (mm)	-1.286 / 1.708		-1.311 / 1.690
Hall A beam position feedback	ON		ON
Wien angle	-40.20		-40.20
Target type	LH2		Ta
Target pump speed (Hz)	31		31
Target temperature	20.0		20.0
Target pressure	26.25		26.26
HALOG Target Screens	✓		OK
Left Arm Angle	20.5°		16.5°
Left Arm Collimator	open (0.8712 m)		open
Left Cryo level OK ? (He>60%, N>25%)	✓		OK
Left Arm Momentum (GeV/c)	0.960		1.194
Left Arm NMR ok ?	✓		OK
Left Arm Quad #1 (A)	722.271		898.46
Left Arm Quad #2 (A)	413.26		514.23
Left Arm Dipole (A)	318.63		397.99
Left Arm Quad #3 (A)	382.20		475.38
Right Arm Angle	105°		105°
Right Arm Collimator	0		open
Right Cryo level OK ? (He>60%, N>25%)	✓		OK
Right Arm Momentum (GeV/c)	0.4596		0.4596
Right Arm NMR ok ?	✓		OK
Right Arm Quad #1 (A)	345.647		345.65
Right Arm Quad #2 (A)	197.78		197.78
Right Arm Dipole (A)	158.19		158.18
Right Arm Quad #3 (A)	182.89		182.89

Date: 4/23/2008

	Owl	Day	Swing
Argon pressure (PSI)	2479.102		1031
Ethane pressure (PSI)	441.211		453
CO2 pressure (PSI)	670.605		685
Left VDC gas flow (top/bottom)	5.50 / 5.49		5.50/5.49
Right VDC gas flow (top/bottom)	2.461 / 8.654		2.55 / 9.43
Left VDC HV on (top/bottom) ?	3.89 / 3.95		3.993 / 3.999
Right VDC HV on (top/bottom) ?	3.94 / 3.83		3.998 / 4.002
Left S1/S2 HV on ?	✓		Yes
Right S1/S2 HV on ?	✓		Yes
Left Cerenkov HV on ?	✓		Yes
BigBite Angle	43.5°		43.5°
BigBite Current	388.1		388.1 A
BigBite dE HV OK?	✓		Yes
BigBite E HV OK?	✓		Yes
BigBite Front WC HV (V)	1500		1500
BigBite Back WC HV (V)	1500		1500
BigBite Gas Bubbling?	✓		OK
Latest run number	3666		3671
Computer deadtime	3%		23%
Data Rate (L1A)	995		1260
Right Arm prescale PS1/PS2	1/1		1/1
BigBite prescale PS1/PS2	9000 / 150k		5600 / 16000
Left prescale PS3/PS4/PS7	830 / 20 / 650		1 / 1 / 80
Coincidence Prescale PS5/PS6	1/1		1/1
Right Arm rates T1/T2	22 / 10.7		8.5 / 8.0
BigBite rates T1/T2	9.75x10 ⁵ / 1.49x10 ⁶		59k / 169k
Left rates T3/T4/T7	8223 / 210 / 6725		970 / 16 / 830
Coincidence Rate T5/T6	702 / 919		14 / 22

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Last revision : 13-April-2008

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E04-007 Shift check List

Date:

4/24/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	03:55	14:57	21:35
Your Name	Brian Hahn	A. Saha	J. LeRose
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	1192.37	1192.39	1192.38
Beam Current (uA)	5 uA	4.4 uA	4.23 uA
SPOT size X/Y (mm)	no raster	no raster	no raster
Beam Position at 1H04A X/Y (mm)	-0.773/0.657	-0.785/0.684	-0.801/0.659
Beam Position at 1H04B X/Y (mm)	-1.297/1.707	-1.302/1.715	-1.313/1.717
Hall A beam position feedback	on	ON	ON
Wien angle	-40.20	-40.20	
Target type	LH ₂	LH ₂	LH ₂
Target pump speed (Hz)	31	31	32
Target temperature	20.00	20.0	20.0
Target pressure	26.28	26.3	26.37
HALOG Target Screens	✓	✓	✓
Left Arm Angle	16.5°	16.5°	16.5°
Left Arm Collimator	OPEN	OPEN	open
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	✓ AS
Left Arm Momentum (GeV/c)	0.986	0.986	0.986
Left Arm NMR ok ?	✓	✓	✓
Left Arm Quad #1 (A)	741.871	741.817	741.817
Left Arm Quad #2 (A)	424.51	424.51	424.51
Left Arm Dipole (A)	327.37	327.37	327.38
Left Arm Quad #3 (A)	392.44	392.44	392.57
Right Arm Angle	105	105	105
Right Arm Collimator	0	0	✓
Right Cryo level OK ? (He>60%, N>25%)	Dipole Yellow	✓	✓
Right Arm Momentum (GeV/c)	0.45960	0.4596	0.4596
Right Arm NMR ok ?	✓	✓	✓
Right Arm Quad #1 (A)	345.647	345.647	345.647
Right Arm Quad #2 (A)	197.78	197.78	197.78
Right Arm Dipole (A)	158.18	158.18	158.18
Right Arm Quad #3 (A)	182.89	182.89	182.89

Date:

	Owl	Day	Swing
Argon pressure (PSI)	663.8		
Ethane pressure (PSI)	422.7	2408.062	1822
CO2 pressure (PSI)	635.2	577.334	516
Left VDC gas flow (top/bottom)	389 / 3.96	5.52 / 5.51	744
Right VDC gas flow (top/bottom)	2.585 / 9.361	2.529 / 8.68	
Left VDC HV on (top/bottom) ?	3.89 / 3.96	5.52 / 5.51	5.52 / 5.51
Right VDC HV on (top/bottom) ?	3.85 / 3.84	3.988 / 3.996	3.99 / 4.00
Left S1/S2 HV on ?	✓	3.997 / 4.001	4.00 / 4.01
Right S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?	✓	✓	✓
BigBite Angle	43.5°	✓	✓
BigBite Current	388.1	43.6°	43.6
BigBite dE HV OK?	✓	✓	388.1
BigBite E HV OK?	✓	✓	✓
BigBite Front WC HV (V)	✓ 1500	✓ 1500	✓
BigBite Back WC HV (V)	✓ 1500	✓ 1500	✓ 1500
BigBite Gas Bubbling?	OK	OK	✓ 1500
Latest run number	3694	OK	yes
Computer deadtime	19%	3737	3769
Data Rate (LIA)	16.14	20%	1290
Right Arm prescale PS1/PS2	90000 / 150000 / 1	1 / 1	1.5K
BigBite prescale PS1/PS2	90000 / 150000	1 / 1	1 / 1
Left prescale PS3/PS4/PS7	2100 / 55 / 1800	90600 / 150000	9060 / 150000
Coincidence Prescale PS5/PS6	1 / 2	2100 / 55 / 1800	2100 / 55 / 1800
Right Arm rates T1/T2	9.1 x 10⁵ / 22 / 10	1 / 1	1 / 1
BigBite rates T1/T2	9.1 x 10 ⁵ / 1.5 x 10 ⁶		20 / 10
Left rates T3/T4/T7	2.1 x 10 ⁵ / 6 x 10 ²		800k / 1.3M
Coincidence Rate T5/T6	1.5 x 10 ³ / 2.5 x 10 ³		19K / 500 / 16K
			1.2K / 1.9K

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Last revision : 13-April-2008

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E04-007 Shift check List

Date: 4/25/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	00:55	14:45	23:02
Your Name	Yancai Wang	Lindgren	Abdurahim Rakhmen
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	1192.3788	1192.3749	1192.37
Beam Current (uA)	4.219	4.00	3.92
SPOT size X/Y (mm)	no raster	no raster	no raster
Beam Position at 1H04A X/Y (mm)	-0.794 / 0.647	-0.775 / 0.666	-0.779 / 0.698
Beam Position at 1H04B X/Y (mm)	-1.309 / 1.677	-1.309 / 1.669	-1.306 / 1.686
Hall A beam position feedback	on	on	on
Wien angle	-40.20		-40.2
Target type	LH2	LH2	LH2
Target pump speed (Hz)	32	31	31
Target temperature	20	20	20
Target pressure	26.37	26.3	26.33
HALOG Target Screens	✓		✓
Left Arm Angle	16.50	14.50	14.5
Left Arm Collimator	open	open	open
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Left Arm Momentum (GeV/c)	0.9866	0.997	0.997
Left Arm NMR ok ?	✓	✓	✓
Left Arm Quad #1 (A)	741.817	750.202	750.149
Left Arm Quad #2 (A)	424.51	429.24	429.24
Left Arm Dipole (A)	327.38	331.07	331.07
Left Arm Quad #3 (A)	392.57	396.93	396.93
Right Arm Angle	105		104.998
Right Arm Collimator	0		0
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Right Arm Momentum (GeV/c)	0.45960	0.4596	0.4596
Right Arm NMR ok ?	✓	✓	✓
Right Arm Quad #1 (A)	345.647	345.647	345.647
Right Arm Quad #2 (A)	197.78	197.777	197.78
Right Arm Dipole (A)	158.18	158.19	158.18
Right Arm Quad #3 (A)	182.89	182.88	182.89

Date:

	Owl	Day	Swing
Argon pressure (PSI)	1541.88	509.18	2082.887
Ethane pressure (PSI)	478.418	604.98	510.352
CO2 pressure (PSI)	704.590	765.16	725.391
Left VDC gas flow (top/bottom)	5.51/5.51 5.51/5.51	5.50/5.48	5.50/5.49
Right VDC gas flow (top/bottom)	2.542/19.384	2.31/9.08	2.280/8.937
Left VDC HV on (top/bottom) ?	3.89/3.96	3.99/4.001	3.89/3.96
Right VDC HV on (top/bottom) ?	3.84/3.84	3.99/3.99	3.84/3.84
Left S1/S2 HV on ?	✓	✓	✓
Right S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?	✓	✓	✓
BigBite Angle	43.6°	43.60	43.60
BigBite Current	388.1	388.0	388.1
BigBite dE HV OK?	✓	✓ 388.0	✓
BigBite E HV OK?	✓	✓	✓
BigBite Front WC HV (V)	1500	1500	1500
BigBite Back WC HV (V)	1500	1500	1500
BigBite Gas Bubbling?	OK	OK	OK
Ballon - not bubbling			
Latest run number	3783	3	3912
Computer deadtime	15	22	22
Data Rate (LIA)	1509	2310	2044
Right Arm prescale PS1/PS2	1/1	1/1	1/1
BigBite prescale PS1/PS2	9000/140000	76000/129000	76000/129000
Left prescale PS3/PS4/PS7	2000/55/1700	3100/86/2500	3100/86/2500
Coincidence Prescale PS5/PS6	1/1	1/1	1/1
Right Arm rates T1/T2	1985/10.98	1819	1819 18/9
BigBite rates T1/T2	810700/1546000	0.74M/1.2M	725000/1281000
Left rates T3/T4/T7	19160/512/1602	30K/1.8K/2.4K	20910/866.2/25750
Coincidence Rate T5/T6	1720/2006	1.8K/2.8K	1795/3051

This file can be found at:

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The LaTeX file can be found at:

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Last revision : 13-April-2008

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E04-007 Shift check List

Date: 4/26/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	04:15		22:48
Your Name	Mitra Shabestari		Ramesh
Visual Hall Inspection	✓		✓
Beam Energy (MeV)	1192.37		1193.56
Beam Current (uA)	3.9		3.43
SPOT size X/Y (mm)	Raster off		Raster off
Beam Position at 1H04A X/Y (mm)	-0.802 / 0.649		-0.78 / 0.66
Beam Position at 1H04B X/Y (mm)	-1.297 / 1.703		-1.308 / 1.69
Hall A beam position feedback	ON		ON
Wien angle	-40.20		-40.20
Target type	LH2		LH2
Target pump speed (Hz)	31		31
Target temperature	20.00		20
Target pressure	26.33		26.4
HALOG Target Screens	✓		✓
Left Arm Angle	14.5°		14.5°
Left Arm Collimator	open (0.8712 m)		open
Left Cryo level OK ? (He>60%, N>25%)	✓		OK
Left Arm Momentum (GeV/c)	0.997		0.997
Left Arm NMR ok ?	✓		✓
Left Arm Quad #1 (A)	750.149		750
Left Arm Quad #2 (A)	429.25		429
Left Arm Dipole (A)	331.07		331
Left Arm Quad #3 (A)	396.93		396.9
Right Arm Angle	105°		105°
Right Arm Collimator	0		closed (0.008 m)
Right Cryo level OK ? (He>60%, N>25%)	✓		✓
Right Arm Momentum (GeV/c)	0.45960		0.4596
Right Arm NMR ok ?	✓		✓
Right Arm Quad #1 (A)	345.647		345.6
Right Arm Quad #2 (A)	197.77		197.78
Right Arm Dipole (A)	158.18		158
Right Arm Quad #3 (A)	182.89		182.89

Date:

	Owl	Day	Swing
Argon pressure (PSI)	1683.398		228
Ethane pressure (PSI)	484.277		551
CO2 pressure (PSI)	691.113		685
Left VDC gas flow (top/bottom)	5.51 / 5.50		5.5 / 5.5
Right VDC gas flow (top/bottom)	2.716 / 9.198		2.7 / 9.3
Left VDC HV on (top/bottom) ?	3.89 / 3.96		4 / 4
Right VDC HV on (top/bottom) ?	3.84 / 3.84		4 / 4
Left S1/S2 HV on ?	✓		✓
Right S1/S2 HV on ?	✓		✓
Left Cerenkov HV on ?	✓		✓
BigBite Angle	43.6		43.6
BigBite Current	388.1		388.1 A
BigBite dE HV OK?	✓		✓
BigBite E HV OK?	✓		✓
BigBite Front WC HV (V)	1500		1500
BigBite Back WC HV (V)	1500		1500
BigBite Gas Bubbling?	✓		yes
Latest run number	3945		4045
Computer deadtime	23%		15%
Data Rate (LIA)	2182		1675
Right Arm prescale PS1/PS2	1 / 1		1 / 1
BigBite prescale PS1/PS2	76k / 129k		76k / 129k
Left prescale PS3/PS4/PS7	3100 / 86 / 2500		3100 / 86 / 1
Coincidence Prescale PS5/PS6	1 / 1		1 / 1
Right Arm rates T1/T2	18.7 / 6.99		17h / 8h
BigBite rates T1/T2	740k / 1261k		658k / 1124k
Left rates T3/T4/T7	30.6k / 822 / 25.5k	*	27k / 0.7k / 22k
Coincidence Rate T5/T6	1.8k / 2.8k		1.5k / 2.3k 1.5k / 2.3k

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Last revision : 13-April-2008

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E04-007 Shift check List

Date: 4/27/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	04:01		2333i
Your Name	Mitra Shabestari		Yi Zhang
Visual Hall Inspection	✓		✓
Beam Energy (MeV)	1192.38		1192.38
Beam Current (uA)	3.49		2.5
SPOT size X/Y (mm)	Raster off		raster off
Beam Position at 1H04A X/Y (mm)	-0.801 / 0.691		-0.774 / 0.667
Beam Position at 1H04B X/Y (mm)	-1.275 / 1.677		-1.282 / 1.737
Hall A beam position feedback	ON		ON
Wien angle	-40.2		-40.2
Target type	LH2		LH2
Target pump speed (Hz)	31		32
Target temperature	20.00		20.4
Target pressure	26.32		26.43 k
HALOG Target Screens	✓		✓
Left Arm Angle	14.5°		12.45°
Left Arm Collimator	open (0.8712 m)		open 0.27
Left Cryo level OK ? (He>60%, N>25%)	✓		✓
Left Arm Momentum (GeV/c)	0.997		1.007
Left Arm NMR ok ?	✓		✓
Left Arm Quad #1 (A)	750.149		1.007
Left Arm Quad #2 (A)	429.24		1.0071
Left Arm Dipole (A)	331.08		1.00699
Left Arm Quad #3 (A)	396.93		1.0068
Right Arm Angle	105°		105°
Right Arm Collimator	0		0
Right Cryo level OK ? (He>60%, N>25%)	✓		✓
Right Arm Momentum (GeV/c)	0.45960		0.45962
Right Arm NMR ok ?	✓		✓
Right Arm Quad #1 (A)	345.647		0.45961
Right Arm Quad #2 (A)	197.78		0.4596
Right Arm Dipole (A)	158.18		0.45962
Right Arm Quad #3 (A)	182.88		0.4596

Date: 4/27/2008

	Owl	Day	Swing
Argon pressure (PSI)	2313.867		787.257
Ethane pressure (PSI)	496.875		462.168
CO2 pressure (PSI)	585.059		662.675
Left VDC gas flow (top/bottom)	5.51/5.50		5.50/5.48
Right VDC gas flow (top/bottom)	2.424/7.80		2.453/6.782
Left VDC HV on (top/bottom) ?	3.89/3.96		4.00/4.00
Right VDC HV on (top/bottom) ?	3.84/3.84		4.00/4.00
Left S1/S2 HV on ?	✓	✓	✓
Right S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?	✓	✓	✓
BigBite Angle	43.6	43.5	43.5
BigBite Current	388.1	389.2	389.2
BigBite dE HV OK?	✓	✓	✓
BigBite E HV OK?	✓	✓	✓
BigBite Front WC HV (V)	1500	1500	1500
BigBite Back WC HV (V)	1500	1500	1500
BigBite Gas Bubbling?	✓	✓	✓
Latest run number	4072	4139	4190
Computer deadtime	17%	20%	17%
Data Rate (L1A)	1907	1912	1783
Right Arm prescale PS1/PS2	1/1	1/1	1/1
BigBite prescale PS1/PS2	76k/129k	75k/129k	56700/12200
Left prescale PS3/PS4/PS7	3100/86/2500	460/10/1	4600/110/4100
Coincidence Prescale PS5/PS6	1/1	1/1	1/1
Right Arm rates T1/T2	21.7/8.49	780 71.8/9.0	15/8.7
BigBite rates T1/T2	655k/1125k	790/611	4.9e5/8.78e5
Left rates T3/T4/T7	27k/731/22.5k	59k/1130/32k	28.1e4/60700/2.97e4
Coincidence Rate T5/T6	1.4k/2.26k	1.6k/1.01k	1.52/2.3/2.56/2.3

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Last revision : 13-April-2008

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E04-007 Shift check List

Date: 4/28/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	04:24	18:50	23:05 P
Your Name	Mitra Shabestari	J.P. Chen	Chirang's
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	1192.3807	1192.3839	1192.3839
Beam Current (uA)	2.60	2.53	2.0
SPOT size X/Y (mm)	Raster off	Raster off	Raster off
Beam Position at 1H04A X/Y (mm)	-0.774 / 0.668	-0.780 / 0.655	-0.801 / 0.807
Beam Position at 1H04B X/Y (mm)	-1.317 / 1.708	-1.290 / 1.670	-1.290 / 1.709
Hall A beam position feedback	ON	ON / RF on	ON
Wien angle	-40.2	-40 → -30 → -50	-40.2
Target type	LH2	LH2	LH2
Target pump speed (Hz)	32	31	31
Target temperature	20	20.0	20.0
Target pressure	26.33	24.0	23.9
HALOG Target Screens	✓	✓	
Left Arm Angle	12.5°	12.451	12.451
Left Arm Collimator	open (0.8712 m)	OPEN	OPEN
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Left Arm Momentum (GeV/c)	1.007	1.007	1.007
Left Arm NMR ok ?	✓	✓	✓
Left Arm Quad #1 (A)	757.679	757.626	757.679
Left Arm Quad #2 (A)	433.64	433.64	433.64
Left Arm Dipole (A)	334.44	334.44	334.44
Left Arm Quad #3 (A)	400.81	400.81	400.82
Right Arm Angle	105°	104.998	104.998
Right Arm Collimator	0	—	—
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Right Arm Momentum (GeV/c)	0.45960	0.4596	0.4596
Right Arm NMR ok ?	✓	✓	✓
Right Arm Quad #1 (A)	345.647	345.647	345.594
Right Arm Quad #2 (A)	197.78	197.77	197.78
Right Arm Dipole (A)	158.19	158.18	158.19
Right Arm Quad #3 (A)	182.89	182.88	182.89

Date: 4/28/2008

	Owl	Day	Swing
Argon pressure (PSI)	444.141	1896	1229
Ethane pressure (PSI)	428.906	495	442-9
CO2 pressure (PSI)	645.945	735	672-1
Left VDC gas flow (top/bottom)	5.49/5.48	5.5/5.5	2.97/3.86 5-52/5
Right VDC gas flow (top/bottom)	2.547/9.127	2.67/9.09	2.5/9.13
Left VDC HV on (top/bottom) ?	3.89/3.96	4/4	3.89/3.96
Right VDC HV on (top/bottom) ?	3.84/3.84	4/4	3.85/3.84
Left S1/S2 HV on ?	✓	✓	✓
Right S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?	✓	✓	✓
BigBite Angle	43.6	43.6	48
BigBite Current	388.1	390	388.1
BigBite dE HV OK?	✓	✓	✓
BigBite E HV OK?	✓	✓	✓
BigBite Front WC HV (V)	1500	1500	1500
BigBite Back WC HV (V)	1500	1500	1500
BigBite Gas Bubbling?	✓	✓	✓
Latest run number	4219	4283	4315
Computer deadtime	19%	18%	19%
Data Rate (L1A)	2095	2K	2K
Right Arm prescale PS1/PS2	1/1	1/1	1/1
BigBite prescale PS1/PS2	56700/102K	56700/102K	43900/78000
Left prescale PS3/PS4/PS7	4600/110/4100	4600/110/4100	4500/130/3700
Coincidence Prescale PS5/PS6	1/1	1/1	1/1
Right Arm rates T1/T2	15 / 7.99	12 / 9.9	157% / 6.74
BigBite rates T1/T2	500k / 889k	488K / 870K	436k / 779k
Left rates T3/T4/T7	39k / 1k / 32.6k	39k / 1.1k / 32k	45k / 1.2k / 36k
Coincidence Rate T5/T6	1.5k / 2.7k	1.56k / 2.6k	1.6k / 2.5k

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E04-007 Shift check List

Date: 4/29/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	01:40		10:30P
Your Name	Aniol		Chiranjit
Visual Hall Inspection	ok		ok
Beam Energy (MeV)	1192.3839		1192.35
Beam Current (uA)	3.0		3.5
SPOT size X/Y (mm)	vastor 0		vastor OFF
Beam Position at 1H04A X/Y (mm)	-0.805/0.756		-0.84/0.79
Beam Position at 1H04B X/Y (mm)	-1.298/1.693		-1.37/1.70
Hall A beam position feedback	on		on
Wien angle			-40.2
Target type	LH ₂ 6cm		LH ₂
Target pump speed (Hz)	31		31
Target temperature	20		20
Target pressure	23.9		23.91
HALOG Target Screens	yes		
Left Arm Angle	12.45		14.5
Left Arm Collimator	open, 0.8712		open / 0.8713
Left Cryo level OK ? (He>60%, N>25%)	ok		ok
Left Arm Momentum (GeV/c)	1.007		0.997
Left Arm NMR ok ?	ok		ok
Left Arm Quad #1 (A)	757.63		750.01
Left Arm Quad #2 (A)	433.63		429.4
Left Arm Dipole (A)	334.44		331.06
Left Arm Quad #3 (A)	100.81		396.8
Right Arm Angle	104.998		109.9
Right Arm Collimator	-0.0086		-0.0087
Right Cryo level OK ? (He>60%, N>25%)	ok		ok
Right Arm Momentum (GeV/c)	0.4596		0.459
Right Arm NMR ok ?	ok		ok
Right Arm Quad #1 (A)	345.65		345.5
Right Arm Quad #2 (A)	197.77		197.78
Right Arm Dipole (A)	158.19		158.19
Right Arm Quad #3 (A)	182.88		182.89

Date:

	Owl	Day	Swing
Argon pressure (PSI)	1024		1805
Ethane pressure (PSI)	437		412
CO2 pressure (PSI)	659		622
Left VDC gas flow (top/bottom)	5.52 / 5.51		5.52 / 5.51
Right VDC gas flow (top/bottom)	2.74 / 8.77		2.49 / 9.03
Left VDC HV on (top/bottom) ?	3.99 / 3.99		3.89 / 3.96
Right VDC HV on (top/bottom) ?	4.00 / 4.00		3.85 / 3.84
Left S1/S2 HV on ?	✓		✓
Right S1/S2 HV on ?	✓		✓
Left Cerenkov HV on ?	✓		✓
BigBite Angle			54
BigBite Current	390 / 388.1		388.1
BigBite dE HV OK?	✓		✓
BigBite E HV OK?	✓		✓
BigBite Front WC HV (V)	1500		1500
BigBite Back WC HV (V)	1500		.
BigBite Gas Bubbling?	yes		✓
Latest run number	4333		4402
Computer deadtime	19%		6%
Data Rate (L1A)	1925		
Right Arm prescale PS1/PS2	1/1		1/1
BigBite prescale PS1/PS2	43900 / 78000		82000 / 58000
Left prescale PS3/PS4/PS7	4500 / 130 / 3700		2300 / 76 / 2200
Coincidence Prescale PS5/PS6	1/1		1/1
Right Arm rates T1/T2	444 19 / 7		?
BigBite rates T1/T2	441K / 783K		310K / 555K
Left rates T3/T4/T7	46K / 1.3K / 37K		26K / 0.723K / 22K
Coincidence Rate T5/T6	1.6K / 2.7K		

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E04-007 Shift check List

Date: 4/30/68

	Owl	Day	Swing
Time (hh/mm,24:00)	05:50		22:55
Your Name	A. Saka		Yi Qiang
Visual Hall Inspection	✓ OK		OK
Beam Energy (MeV)	1192.37		1192.38
Beam Current (uA)	3.4		3.4
SPOT size X/Y (mm)	No raster		0.19 x 0.10
Beam Position at 1H04A X/Y (mm)	-0.810 / 0.660		-0.78 / 0.67
Beam Position at 1H04B X/Y (mm)	-1.310 / 1.678		-1.29 / 1.73
Hall A beam position feedback	ON		ON
Wien angle	-40.2°		-40.2°
Target type	LH ₂ 6cm		LH ₂ 6cm
Target pump speed (Hz)	31		31
Target temperature	20		20.0
Target pressure	23.9		24.03
HALOG Target Screens	yes		Yes
Left Arm Angle	14.5 deg		14.5°
Left Arm Collimator	OPEN, 0.8712		Open
Left Cryo level OK ? (He>60%, N>25%)	✓ OK		OK
Left Arm Momentum (GeV/c)	0.997		0.997
Left Arm NMR ok ?	OK		OK
Left Arm Quad #1 (A)	750.095		750.04
Left Arm Quad #2 (A)	429.40		429.40
Left Arm Dipole (A)	331.06		331.06
Left Arm Quad #3 (A)	396.87		396.87
Right Arm Angle	104.998 deg		104.998
Right Arm Collimator	-0.0087		0.0087 -0.01
Right Cryo level OK ? (He>60%, N>25%)	✓ OK		OK
Right Arm Momentum (GeV/c)	0.4596		0.4596
Right Arm NMR ok ?	OK		OK
Right Arm Quad #1 (A)	345.647		345.65
Right Arm Quad #2 (A)	197.78		197.78
Right Arm Dipole (A)	158.19		158.19
Right Arm Quad #3 (A)	182.89		182.99

Date: 4/30/08

	Owl	Day	Swing
Argon pressure (PSI)	1247.754		2164
Ethane pressure (PSI)	367.363		398
CO2 pressure (PSI)	556.934		585
Left VDC gas flow (top/bottom)	5.52/5.51		5.99 /5.48
Right VDC gas flow (top/bottom)	2.741/7.311		2.39/8.80
Left VDC HV on (top/bottom) ?	3.996/3.997		4/4
Right VDC HV on (top/bottom) ?	4.000/4.004		4/4
Left S1/S2 HV on ?	✓		OK
Right S1/S2 HV on ?	✓		OK
Left Cerenkov HV on ?	✓		OK
BigBite Angle	54 deg		54°
BigBite Current	388.9 A		388.1 A
BigBite dE HV OK?	✓		OK
BigBite E HV OK?	✓		OK
BigBite Front WC HV (V)	✓		OK
BigBite Back WC HV (V)	✓		OK
BigBite Gas Bubbling?	✓		OK
Latest run number	4411		4458
Computer deadtime	1%		3%
Data Rate (L1A)	1.2 kHz		1.2 kHz
Right Arm prescale PS1/PS2	1/1		1/1
BigBite prescale PS1/PS2	3200/58000		3300/58000
Left prescale PS3/PS4/PS7	2700/76/2200		2700/72/2200
Coincidence Prescale PS5/PS6	1/1		1/1
Right Arm rates T1/T2	17/5 kHz		20/9
BigBite rates T1/T2	310/560 kHz		330/580k
Left rates T3/T4/T7	26/70/21 kHz		27k/750/22k
Coincidence Rate T5/T6	760/1200 Hz		820/1.3k

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E04-007 Shift check List

Date: 5/1/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	04:46		20:35 P
Your Name	Mitra Shabestari		Chiranjib
Visual Hall Inspection			✓
Beam Energy (MeV)	1192.38		1192.38
Beam Current (uA)	3.85		3.38
SPOT size X/Y (mm)	Raster off		OFF (Raster)
Beam Position at 1H04A X/Y (mm)	-0.792/0.650		-0.8/0.67
Beam Position at 1H04B X/Y (mm)	-1.310/1.682		-1.313/1.691
Hall A beam position feedback	ON		ON
Wien angle			40.20
Target type	LH2		Al-Dummy
Target pump speed (Hz)	31		31
Target temperature	20		20
Target pressure	23.93		23.93
HALOG Target Screens	✓		✓
Left Arm Angle	14.5°		14.5°
Left Arm Collimator	open (0.8712 m)		OPEN (0.8712m)
Left Cryo level OK ? (He>60%, N>25%)	✓		✓
Left Arm Momentum (GeV/c)	0.997		0.997
Left Arm NMR ok ?	✓		✓
Left Arm Quad #1 (A)	750.042		750.09
Left Arm Quad #2 (A)	429.40		429.39
Left Arm Dipole (A)	331.06		331.85
Left Arm Quad #3 (A)	396.87		396.81
Right Arm Angle	105°		104.998
Right Arm Collimator	0		—
Right Cryo level OK ? (He>60%, N>25%)	✓		✓
Right Arm Momentum (GeV/c)	0.4596		0.459
Right Arm NMR ok ?	✓		✓
Right Arm Quad #1 (A)	345.647		345.64
Right Arm Quad #2 (A)	197.78		197.78
Right Arm Dipole (A)	158.19		158.18
Right Arm Quad #3 (A)	182.89		182.89

Date:

	Owl	Day	Swing
Argon pressure (PSI)	1720.605		580.543
Ethane pressure (PSI)	374.707		502.734
CO2 pressure (PSI)	542.871		655.957
Left VDC gas flow (top/bottom)	5.52/5.51		3.51/5.50
Right VDC gas flow (top/bottom)	2.427/8.775		2.55/9.51
Left VDC HV on (top/bottom) ?	3.89/3.96		3.89/3.95
Right VDC HV on (top/bottom) ?	3.84/3.84		3.84/3.84
Left S1/S2 HV on ?	✓		✓
Right S1/S2 HV on ?	✓		✓
Left Cerenkov HV on ?	✓		✓
BigBite Angle	54°		48°
BigBite Current	388.1		388.100
BigBite dE HV OK?	✓		✓
BigBite E HV OK?	✓		✓
BigBite Front WC HV (V)	1500		1500
BigBite Back WC HV (V)	1500		1500
BigBite Gas Bubbling?	✓		✓
Latest run number	4478		4541
Computer deadtime	5%		8%
Data Rate (LIA)	1400		
Right Arm prescale PS1/PS2	1/1		1/1
BigBite prescale PS1/PS2	36k/64k		30000/60000
Left prescale PS3/PS4/PS7	3000/84/2500		1500/30/1300
Coincidence Prescale PS5/PS6	1/1		1/1
Right Arm rates T1/T2 (Hz)	21.96/8.2		12 Hz/7.4
BigBite rates T1/T2 (Hz)	375k/665k		314k/550k
Left rates T3/T4/T7 (Hz)	30k/840/25.8k		15k/0.3k/12k
Coincidence Rate T5/T6 (Hz)	993/1602 Hz		0.5k/7k

This file can be found at:

<http://halloweb.jlab.org/experiment/E04-007/Docs/Shift-Check-List.pdf>

The LaTeX file can be found at:

<http://halloweb.jlab.org/experiment/E04-007/Docs/LaTeX/Shift-Check-List.tex>

Last revision : 13-April-2008

Compiled with pdflaTeX

E04-007 Shift check List

Date: 05/02/08

	Owl	Day	Swing
Time (hh/mm,24:00)	05.00		
Your Name	Nilanga		
Visual Hall Inspection	Y		
Beam Energy (MeV)	1192.4		
Beam Current (uA)	3.4		
SPOT size X/Y (mm)	raster off		
Beam Position at 1H04A X/Y (mm)	-0.8 / 0.7		
Beam Position at 1H04B X/Y (mm)	-1.3 / 1.7		
Hall A beam position feedback	on		
Wien angle			
Target type	LH2		
Target pump speed (Hz)	32		
Target temperature	20.		
Target pressure	23.90		
Left Arm Angle	14.5°		
Left Arm Collimator	open		
Left Cryo level OK ? (He>60%, N>25%)	Y		
Left Arm Momentum (GeV/c)	0.997		
Left Arm NMR ok ?	Y		
Left Arm Quad #1 (A)	750.14		
Left Arm Quad #2 (A)	429.4		
Left Arm Dipole (A)	331.05		
Left Arm Quad #3 (A)	396.8		
Right Arm Angle	105		
Right Arm Collimator	open		
Right Cryo level OK ? (He>60%, N>25%)	Y		
Right Arm Momentum (GeV/c)	0.4596		
Right Arm NMR ok ?	345.65 Y		
Right Arm Quad #1 (A)	197.78 345.65		
Right Arm Quad #2 (A)	158.18 197.78		
Right Arm Dipole (A)	158.18		
Right Arm Quad #3 (A)	182.89		

Date:

	Owl	Day	Swing
Argon pressure (PSI)	2317		
Ethane pressure (PSI)	449.4		
CO2 pressure (PSI)	522		
Left VDC gas flow (top/bottom)	5.49/5.49		
Right VDC gas flow (top/bottom)			
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?	Y		
Right VDC HV on (top/bottom) ?	Y		
Left S0/S1/S2 HV on ?	Y		
Right S0/S1/S2 HV on ?	Y		
Left Cerenkov HV on ?	Y		
BigBite Angle	54°		
BigBite Current			
BigBite E HV?	Y		
BigBite dE HV?	Y		
BigBite Chamber HV?	Y		
BigBite Front WC HV	Y		
BigBite Back WC HV	Y		
BigBite prescale PS6/PS7			
BigBite rates T6/T7			
BigBite Gas Bubbling?			
Latest run number	4583		
Computer deadtime	70 %		
Right prescale PS1/PS2			
Left prescale PS3/PS4			
Right rates T1/T2			
Left rates T3/T4			
Coincidence Prescale			
Coincidence Rate T5			
BigBite prescale			
BigBite rates T6/T7			

This file can be found at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/Shift-Check-List.ps>

The LaTeX file can be found at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/LaTeX>

Last revision : 01-April-2008

E04-007 Shift check List

Date: 05/03/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	7:31	15:02	21:00
Your Name	A. CAMSONNE	Yukai Wang	FRANCESCO CUSANO
Visual Hall Inspection	OK	OK	OK
Beam Energy (MeV)	1192.3790	1192.13751	1192.3788
Beam Current (uA)	3.99	4.489	2.979
SPOT size X/Y (mm)	no raster	no raster	00 RASTER
Beam Position at 1H04A X/Y (mm)	-0.85/0.671	-0.8/0.7mm	-0.790/0.697
Beam Position at 1H04B X/Y (mm)	-1.3 / 1.72	-1.1/1.7mm	-1.301/1.667
Hall A beam position feedback	Yes	ON	ON
Wien angle	-40.2	-40.2	-40.202
Target type	Te	LH2	LH2
Target pump speed (Hz)	30 / 10%	0	29
Target temperature	20	18.22	20.00
Target pressure	23.91	23.94	23.35
Left Arm Angle	16.5	16.5	14.5
Left Arm Collimator	OPEN	OPEN	OPEN
Left Cryo level OK ? (He>60%, N>25%)	Yes	yes	YES
Left Arm Momentum (GeV/c)	1.494	0.986	0.997
Left Arm NMR ok ?	Y	Yes	YES
Left Arm Quad #1 (A)	898.3	741.871	750.095
Left Arm Quad #2 (A)	514.19	436.51	429.25
Left Arm Dipole (A)	397.98	327.38	331.09
Left Arm Quad #3 (A)	475.34	392.43	396.80
Right Arm Angle	105	105	105
Right Arm Collimator	OPEN	(-0.0087m)	OPEN (-0.0086m)
Right Cryo level OK ? (He>60%, N>25%)	OK	yes	YES
Right Arm Momentum (GeV/c)	0.4596	0.4596	0.4596
Right Arm NMR ok ?	OK	OK	OK
Right Arm Quad #1 (A)	345.647	345.647	345.647
Right Arm Quad #2 (A)	197.78	197.78	197.78
Right Arm Dipole (A)	158.18	158.18	158.18
Right Arm Quad #3 (A)	182.89	182.88	182.89

Date:

	Owl	Day	Swing
Argon pressure (PSI)	412.5	2053.262	1555.422
Ethane pressure (PSI)	525	575.492	542.336
CO2 pressure (PSI)	762	889.160	845.801
Left VDC gas flow (top/bottom)	5.5 / 5.48	5.51/5.50	5.51/5.50
Right VDC gas flow (top/bottom)	0.54 / 0.87	0.54/0.87	2.730/9.523
Left Cerenkov pressure (PSI)	—	—	—
Left VDC HV on (top/bottom) ?	3.995 / 3.956	3.84 / 3.83	3.84 / 3.84
Right VDC HV on (top/bottom) ?	3.999 / 4.002	3.89 / 3.86	3.84 / 3.83
Left S0/S1/S2 HV on ?	Y	Y	Y
Right S0/S1/S2 HV on ?	Y	Y	Y
Left Cerenkov HV on ?	Y	Y	Y
BigBite Angle	54	54	48
BigBite Current	380	390	390
BigBite E HV?	✓	✓	✓
BigBite dE HV?	✓	✓	✓
BigBite Chamber HV?	✓	✓	✓
BigBite Front WC HV	1500	1500	1500
BigBite Back WC HV	1500	1500	1500
BigBite prescale PS6/PS7	✓/1	✓/1700	1/2000
BigBite rates T6/T7	15/570	10/48	10/16
BigBite Gas Bubbling?	✓	YES	YES
Latest run number	4644	4666	4677
Computer deadtime	31	0	3%
Right prescale PS1/PS2	1/1	37000/65000	AS BEFORE
Left prescale PS3/PS4	1/1	2000/45	2500/70
Right rates T1/T2	98/148	2605/965500	24/6510/7.5
Left rates T3/T4	720/14	1700/448	26/6.5
Coincidence Prescale	1	1	1
Coincidence Rate T5	13	570	20
BigBite prescale	4000/9300	1/1700	AS BEFORE
BigBite rates T6/T7	38900/743800	900/11470	26/65

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The LaTeX file can be found at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/LaTeX>

Last revision : 01-April-2008

E04-007 Shift check List

Date: 5/4/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	05:40	03:10 PM ← → 11:00 pm	
Your Name	Mitra Shabestari	FRANCESCO	X. Song
Visual Hall Inspection	✓	✓	
Beam Energy (MeV)		1192	1192.389
Beam Current (uA)	No Beam	3.5	69 uA.
SPOT size X/Y (mm)	Raster off	RASTER OFF	Raster on. 1 x 1 mm
Beam Position at 1H04A X/Y (mm)	— No BEAM	-0.806/0.669	-0.797/0.703
Beam Position at 1H04B X/Y (mm)	—	-1.288/1.689	-1.306/1.714
Hall A beam position feedback	ON	ON	ON.
Wien angle	-40.2	-40.2	-40.2
Target type	(LH2/Colli)	CARBON	LH2 6cm
Target pump speed (Hz)	29	22	20 Fan
Target temperature	20	18.88	20.21
Target pressure	24.	23.90	25
Left Arm Angle	14.5°	14.5°	20.5°
Left Arm Collimator	open (0.8714m)	OPEN (0.8713m)	Open.
Left Cryo level OK ? (He>60%, N>25%)	✓	✓	ok
Left Arm Momentum (GeV/c)	0.997	1.194	0.9600.
Left Arm NMR ok ?	✓	✓	✓
Left Arm Quad #1 (A)	750.095	898.405	722.217
Left Arm Quad #2 (A)	429.25	514.17	413.40
Left Arm Dipole (A)	331.09	397.98	318.83
Left Arm Quad #3 (A)	396.91	475.35	382.23
Right Arm Angle	105°	105°	105°.
Right Arm Collimator	0	-0.087m	✓
Right Cryo level OK ? (He>60%, N>25%)	✓	✓	✓
Right Arm Momentum (GeV/c)	0.4596	0.4596	0.459
Right Arm NMR ok ?	✓	✓	✓
Right Arm Quad #1 (A)	345.647	345.647	345.647
Right Arm Quad #2 (A)	197.78	197.78	197.78
Right Arm Dipole (A)	158.19	158.19	158.19
Right Arm Quad #3 (A)	182.88	182.68	182.89

Date: 5/4/2008

	Owl	Day	Swing
Argon pressure (PSI)	883.008	128.906	1972.
Ethane pressure (PSI)	505.957	532.940	469.
CO2 pressure (PSI)	768.164	802.446	717
Left VDC gas flow (top/bottom)	5.49/5.48	5.50/5.48	5.48/5.48
Right VDC gas flow (top/bottom)	2.739/9.110	2.282/8.962	2.76/9.0
Left Cerenkov pressure (PSI)	—	—	—
Left VDC HV on (top/bottom) ?	3.89/3.96	3.89/3.96	3.99/3.99
Right VDC HV on (top/bottom) ?	3.84/3.84	3.84/3.84	4.0/4.0
Left S0/S1/S2 HV on ?	✓	✓	✓
Right S0/S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?	✓	✓	✓
BigBite Angle	48°	48°	48°
BigBite Current	390 A	390 A	390
BigBite E HV?	✓	✓	✓
BigBite dE HV?	✓	✓	✓
BigBite Chamber HV?	✓	✓	✓
BigBite Front WC HV	1500	1500	1500
BigBite Back WC HV	1500	1500	1500
BigBite prescale PS6/PS7		1/12	1/1000
BigBite rates T6/T7	NO BEAM	220/120k	1.4k/9.5kHz
BigBite Gas Bubbling?	✓	✓	✓
Latest run number		4734	4769
Computer deadtime		2%	7%
Right prescale PS1/PS2	NO	10000/17000	1/100
Left prescale PS3/PS4		1300/12	1100/40
Right rates T1/T2	BEAM	100k/160k	90k/153k
Left rates T3/T4		13k/120	11k/292Hz
Coincidence Prescale		1	1
Coincidence Rate T5		135	923
BigBite prescale		1/12	1/1000
BigBite rates T6/T7		220/120k	1.3k/9.5k

This file can be found at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/Shift-Check-List.ps>

The LaTeX file can be found at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/LaTeX>

Last revision : 01-April-2008

E04-007 Shift check List

Date: 05/05/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	04:25	14:41	20:00
Your Name	F. CUSANNO	J. LeRose	F. CUSANNO
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	1192	2322.8	2322.8
Beam Current (uA)	6	0	5
SPOT size X/Y (mm)	0.8 x 1.2	N/A	NO RASTER
Beam Position at 1H04A X/Y (mm)	-0.801/0.6735	N/A	-0.637/1.299
Beam Position at 1H04B X/Y (mm)	-1.300/1.717	N/A	-1.302/1.693
Hall A beam position feedback	ON	ON	ON
Wien angle	-40.2	✓	-40.2
Target type	L-H2	LH2	LH2
Target pump speed (Hz)	18	33-34	34
Target temperature	18.74	20.00	20.00
Target pressure	23.92	24.2	24.06
Left Arm Angle	20.5°	13.2°	13.2
Left Arm Collimator	OPEN (0.8714m)	open	OPEN
Left Cryo level OK ? (He>60%, N>25%)	OK	✓	✓
Left Arm Momentum (GeV/c)	0.960	2.045	2.045
Left Arm NMR ok ?	✓	yes	✓
Left Arm Quad #1 (A)	722.217	1538.537	1538.483
Left Arm Quad #2 (A)	413.40	880.38	880.38
Left Arm Dipole (A)	318.83	692.63	692.63
Left Arm Quad #3 (A)	382.23	814.24	814.24
Right Arm Angle	105°	105°	105°
Right Arm Collimator	-0.0086m	-0.0064	-0.0084
Right Cryo level OK ? (He>60%, N>25%)	OK	✓	✓
Right Arm Momentum (GeV/c)	0.4596	0.564	0.564
Right Arm NMR ok ?	✓	✓	✓
Right Arm Quad #1 (A)	345.647	424.208	424.208
Right Arm Quad #2 (A)	197.78	242.73	242.73
Right Arm Dipole (A)	158.18	194.06	194.06
Right Arm Quad #3 (A)	182.89	224.40	224.40

E04-007 Shift check List

Date:

	Owl	Day	Swing
Time (hh/mm,24:00)	7:65	2:30 pm	
Your Name	A. CARSONNE	X. Jiang	
Visual Hall Inspection	OK	OK	
Beam Energy (MeV)	2.3218	2.322	
Beam Current (uA)	5	4	
SPOT size X/Y (mm)	no vac for	no reactor	
Beam Position at 1H04A X/Y (mm)	-0.6 / 1.3	-0.6 / 1.3	
Beam Position at 1H04B X/Y (mm)	-1.3 / 1.7	-1.3 / 1.6	
Hall A beam position feedback	Y	ON	
Wien angle	-57.2		
Target type	LH2 6CM	LH2 6cm	
Target pump speed (Hz)	34	33	
Target temperature	20	20	
Target pressure	24.1	24	
Left Arm Angle	13.2	15.8	
Left Arm Collimator	OPEN	open	
Left Cryo level OK ? (He>60%, N>25%)	OK	OK.	
Left Arm Momentum (GeV/c)	2.045	1.991	
Left Arm NMR ok ?	OK 1538.48	OK 0.73669	
Left Arm Quad #1 (A)	1538.48	1497.86	
Left Arm Quad #2 (A)	860.34	857.13	
Left Arm Dipole (A)	682.62	672.94	
Left Arm Quad #3 (A)	814.24	793.74	
Right Arm Angle	105	105	
Right Arm Collimator	OPEN	open	
Right Cryo level OK ? (He>60%, N>25%)	OK	OK.	
Right Arm Momentum (GeV/c)	0.564	0.564	
Right Arm NMR ok ?	OK	OK.	
Right Arm Quad #1 (A)	424.05	424.2	
Right Arm Quad #2 (A)	242.73	242.93	
Right Arm Dipole (A)	194.06	194.06	
Right Arm Quad #3 (A)	224.40	224.40	

Date:

	Owl	Day	Swing
Argon pressure (PSI)	131	2203	
Ethane pressure (PSI)	405	433	
CO2 pressure (PSI)	605	694	
Left VDC gas flow (top/bottom)	5.5 / 8.6	5.5 / 5.48	
Right VDC gas flow (top/bottom)	5.5 / 5.5	2.3 / 8.97	
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?	3.996 / 3.995	3.995 / 3.998	
Right VDC HV on (top/bottom) ?	4.000 / 4.007	4.00 / 4.00	
Left S0/S1/S2 HV on ?	Y	OK	
Right S0/S1/S2 HV on ?	Y	OK	
Left Cerenkov HV on ?	Y	OK	
BigBite Angle	54	54	
BigBite Current	set 380 (388 read)	390 (388 read)	
BigBite E HV?	OK	OK	
BigBite dE HV?	OK	OK	
BigBite Chamber HV?	1500 OK	1500	
BigBite Front WC HV	1500	1500	
BigBite Back WC HV	1500	1500	
BigBite prescale PS6/PS7	20 / 2k00	52 / 750	
BigBite rates T6/T7	2 K / 24K	550 / 7.3K	
BigBite Gas Bubbling?	OK	OK	
Latest run number	4858	4878	
Computer deadtime	16%	6%	
Right prescale PS1/PS2	1 / 1	1 / 1	
Left prescale PS3/PS4	3400 / 1400	1000 / 40	
Right rates T1/T2	14 / 7	450k / 700k	
Left rates T3/T4	33k /	10k / 400.	
Coincidence Prescale	1	1	
Coincidence Rate T5	1400	422	
BigBite prescale	80 / 2400	4500 / 4000 52,750,	
BigBite rates T6/T7	1.8k / 23k	500 / 7.3	

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The LaTeX file can be found at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/LaTeX>

Last revision : 01-April-2008

E04-007 Shift check List

Date: MAY 06, 2008

SWING

	Day	Day	Swing
Time (hh/mm,24:00)	20:40		
Your Name	F. CUSANNO		
Visual Hall Inspection	✓		
Beam Energy (MeV)	2322.9		
Beam Current (uA)	6.7		
SPOT size X/Y (mm)	0.5 x 0.5		
Beam Position at 1H04A X/Y (mm)	-0.516 / 1.381		
Beam Position at 1H04B X/Y (mm)	-1.290 / 1.733		
Hall A beam position feedback	✓		
Wien angle	40.2?		
Target type	LH2		
Target pump speed (Hz)	33		
Target temperature	24.3 22.00		
Target pressure	24.3		
Left Arm Angle	15.8		
Left Arm Collimator	OPEN		
Left Cryo level OK ? (He>60%, N>25%)	✓		
Left Arm Momentum (GeV/c)	1.991		
Left Arm NMR ok ?	✓		
Left Arm Quad #1 (A)	1497.844		
Left Arm Quad #2 (A)	857.13		
Left Arm Dipole (A)	673.02		
Left Arm Quad #3 (A)	792.75		
Right Arm Angle	105		
Right Arm Collimator	-0.0088		
Right Cryo level OK ? (He>60%, N>25%)	✓		
Right Arm Momentum (GeV/c)	0.564		
Right Arm NMR ok ?	✓		
Right Arm Quad #1 (A)	424.208		
Right Arm Quad #2 (A)	242.73		
Right Arm Dipole (A)	194.06		
Right Arm Quad #3 (A)	224.40		

Date:

SWING

	Day	Day	Swing
Argon pressure (PSI)	1683.105		
Ethane pressure (PSI)	392.871		
CO2 pressure (PSI)	665.625		
Left VDC gas flow (top/bottom)	5.49/5.48		
Right VDC gas flow (top/bottom)	2.703/9.497		
Left Cerenkov pressure (PSI)	-		
Left VDC HV on (top/bottom) ?	3.89/3.96		
Right VDC HV on (top/bottom) ?	3.84/3.83		
Left S0/S1/S2 HV on ?	✓		
Right S0/S1/S2 HV on ?	✓		
Left Cerenkov HV on ?	✓		
BigBite Angle	58.54		
BigBite Current	390/38810		
BigBite E HV?	✓		
BigBite dE HV?	✓		
BigBite Chamber HV?	✓		
BigBite Front WC HV	1500		
BigBite Back WC HV	1500		
BigBite prescale PS6/PS7	52/750		
BigBite rates T6/T7	1.6k/13.5k		
BigBite Gas Bubbling?	✓		
Latest run number	4895		
Computer deadtime	16%		
Right prescale PS1/PS2	45000/20000		
Left prescale PS3/PS4	4000/40		
Right rates T1/T2	840k/1270k		
Left rates T3/T4	19k/750		
Coincidence Prescale	1		
Coincidence Rate T5	1280		
BigBite prescale	52/750		
BigBite rates T6/T7	1.6k/13.5k		

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Last revision : 01-April-2008

E04-007 Shift check List

Date: MAY 07 2008

	Owl	Day	Swing
Time (hh/mm,24:00)	04/00		20:35
Your Name	CISBANI		Seonho Choi
Visual Hall Inspection	OK		OK
Beam Energy (MeV)	2322.9746		2322.7909
Beam Current (uA)	6.8		6.9
SPOT size X/Y (mm)	1 x 1		1 x 1
Beam Position at 1H04A X/Y (mm)	-0.441 / 1.496		-0.631 / 1.336
Beam Position at 1H04B X/Y (mm)	-1.281 / 1.763		-1.301 / 1.715
Hall A beam position feedback	ON		ON
Wien angle	-57.21		-57.214
Target type	LH2 6CM		LH2 6cm
Target pump speed (Hz)	34		33.54
Target temperature	20.00		22.0
Target pressure	24.07		24.04
Left Arm Angle	15.8		18.2
Left Arm Collimator	0.8714 m		0.8714
Left Cryo level OK ? (He>60%, N>25%)	ok		OK
Left Arm Momentum (GeV/c)	1.991		1.938
Left Arm NMR ok ?	OK		OK
Left Arm Quad #1 (A)	1489.841		1458.0
Left Arm Quad #2 (A)	857.14		834.32
Left Arm Dipole (A)	672.97		653.92
Left Arm Quad #3 (A)	792.48		771.31
Right Arm Angle	104.988		104.998
Right Arm Collimator	-0.0086 m		0
Right Cryo level OK ? (He>60%, N>25%)	OK		OK
Right Arm Momentum (GeV/c)	0.567		0.564
Right Arm NMR ok ?	OK		OK
Right Arm Quad #1 (A)	424.208		424.208
Right Arm Quad #2 (A)	242.73		242.73
Right Arm Dipole (A)	194.06		194.07
Right Arm Quad #3 (A)	224.40		224.40

Date:

	Owl	Day	Swing
Argon pressure (PSI)	1072.852		21.81
Ethane pressure (PSI)	840.723		646
CO2 pressure (PSI)	534.082		164
Left VDC gas flow (top/bottom)	2.309/9.116		5.49/5.48
Right VDC gas flow (top/bottom)	5.51/5.50		2.38/8.5
Left Cerenkov pressure (PSI)	? 0		—
Left VDC HV on (top/bottom) ?	3.998/3.996		4/4
Right VDC HV on (top/bottom) ?	3.998/4.005		4/4
Left S0/S1/S2 HV on ?	✓		Yes
Right S0/S1/S2 HV on ?	✓		Yes
Left Cerenkov HV on ?	✓		Yes
BigBite Angle	?		54
BigBite Current	388.1		388.1
BigBite E HV?	ok		ok
BigBite dE HV?	ok		ok
BigBite Chamber HV?	ok		ok
BigBite Front WC HV	1500		1500
BigBite Back WC HV	1500		1500
BigBite prescale PS6/PS7	52/750		65/600
BigBite rates T6/T7	1.7 kHz/13.8 kHz		700/5.8 kHz
BigBite Gas Bubbling?	✓ (HELIUM BAG?)		✓
Latest run number	4919		4971
Computer deadtime	17		15%
Right prescale PS1/PS2	45000/70000		1/1
Left prescale PS3/PS4	1000/40		870/134
Right rates T1/T2	843 kHz/1268 kHz		
Left rates T3/T4	19 kHz/763 Hz		8.3 kHz/319 Hz
Coincidence Prescale	1		1
Coincidence Rate T5	1.3 kHz		828 Hz
BigBite prescale	52/750		65/600
BigBite rates T6/T7	1.7 kHz/13.7 kHz		700/5.8 kHz

This file can be found at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/Shift-Check-List.ps>

The LaTeX file can be found at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/LaTeX>

Last revision : 01-April-2008

E04-007 Shift check List

Date: 5/8/2008

	Owl	Day	Swing
Time (hh/mm,24:00)	5:25		
Your Name	Nelyubin		
Visual Hall Inspection	OK		
Beam Energy (MeV)	2322.7979		
Beam Current (uA)	6.905		
SPOT size X/Y (mm)	1/1		
Beam Position at 1H04A X/Y (mm)	-0.599/1.276		
Beam Position at 1H04B X/Y (mm)	-1.299/1.715		
Hall A beam position feedback	ON		
Wien angle			
Target type			
Target pump speed (Hz)	6 Hz		
Target temperature	34		
Target pressure	20		
Left Arm Angle	24.07		
Left Arm Collimator	18.5		
Left Cryo level OK ? (He>60%, N>25%)	0.8714		
Left Arm Momentum (GeV/c)	OK		
Left Arm NMR ok ?	1.938		
Left Arm Quad #1 (A)	OK		
Left Arm Quad #2 (A)	1,458.053		
Left Arm Dipole (A)	834.32		
Left Arm Quad #3 (A)	653.92		
Right Arm Angle	776.58		
Right Arm Collimator	-105		
Right Cryo level OK ? (He>60%, N>25%)	-0.0087		
Right Arm Momentum (GeV/c)	OK		
Right Arm NMR ok ?	0.564		
Right Arm Quad #1 (A)	OK		
Right Arm Quad #2 (A)	424.208		
Right Arm Dipole (A)	242.73		
Right Arm Quad #3 (A)	194.07		
	224.40		

from
left arm
moment
alignment 18.20
from screen

Date:

	Owl	Day	Swing
Argon pressure (PSI)	1431.32		
Ethane pressure (PSI)	500.391		
CO2 pressure (PSI)	759.375		
Left VDC gas flow (top/bottom)	5.51/5.48		
Right VDC gas flow (top/bottom)	2.465/7.768		
Left Cerenkov pressure (PSI)			
Left VDC HV on (top/bottom) ?	3.985/3.995		
Right VDC HV on (top/bottom) ?	4.002/4.010		
Left S0/S1/S2 HV on ?	✓		
Right S0/S1/S2 HV on ?	✓		
Left Cerenkov HV on ?			
BigBite Angle	54		
BigBite Current	390.0		
BigBite E HV?	✓		
BigBite dE HV?	✓		
BigBite Chamber HV?	✓		
BigBite Front WC HV	1500		
BigBite Back WC HV	1500		
BigBite prescale PS6/PS7	120000/120000		
BigBite rates T6/T7	1.2M/1.23M		
BigBite Gas Bubbling?	✓		
Latest run number	4993		
Computer deadtime	12		
Right prescale PS1/PS2	1/1		
Left prescale PS3/PS4	870/34		
Right rates T1/T2	16/10		
Left rates T3/T4	880/340		
Coincidence Prescale	1		
Coincidence Rate T5	930		

This file can be found under : http://hallaweb.jlab.org/experiment/E04-007/documents/shift_check_list-04-007.ps

Last revision : 07-13-2006