

A_y (E05-015) Shift Check List

Date: 05/27/09

	Owl	Day	Swing
Time (hh/mm,24:00)	04:30	11:35	22:40
Your Name	M. MIHOVILVIC	W. Tivemen	X. Zheng
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	2425.4450	2425.44	2425.49
Beam Current (uA)	10.47	11.4 μ A	11.43 μ A
# beam trips last hour	6	4	3
SPOT++ size X/Y (mm)	4x4	4x4	4x4
SPOT++ saved in Halog ?	✓	✓	✓
Beam Position at 1H04A X/Y (mm)	-0.491 / 2.169	-0.498 / 2.13	-0.478 / 2.171
Beam Position at 1H04B X/Y (mm)	-0.500 / 1.996	-0.500 / 1.984	-0.501 / 2.000
Hall A beam position feedback	✓	on	ON
Alarm Handler running ?	✓	on	✓
Saved Hall A tools screen into Halog ?	✓	✓	✓
Wien angle	66.92	66.92°	66.92°
Beam half-wave plate IN/OUT ?	IN	IN	OUT
Most recent Hall A Moller date/result	05/20/09	5/20/09	5/26/09
Target position	³ He	³ He	³ He
Pol. ³ He optical pumping direction	Transverse (+)	Trans. (+)	Trans
Pumping laser on ?	✓	✓	✓
Temperature in laser optics enclosure	✓	✓	✓
Pol. ³ He oven heater ON ?	ON	ON	ON
³ He cell oven temperature (RTDs)	231.21 / 244.6 / 252.9		229 / 245 / 252
³ He cell temperature (RTDs)	76.75 / 47.6 / 40.9 / 42.0 / 32.1		70.45 / 46 / 53 / 20
³ He cell polarization, recent NMR	58.6 %	56.4 %	58 %
³ He cell polarization, recent EPR	✓	✓	✓
Spin-flip ON ?	OFF	off	off
Target cooling jet flow	42.9		
Ref. cell gas type	H ₂	N ₂	N ₂
Ref. cell low pressure gauge (left)	1 Torr	2 < 1 Torr	700
Ref. cell high pressure gauge (right)	126 psig	10 psig	007 psig
Ref. cell temperature (RTDs)	0 / 39.2 / 69.2		40 / 40
Left Arm Angle	14.5°	14.5°	14.5
Left Arm Momentum (GeV/c)	2.277	2.277	2.277
Left Arm NMR locked ?	✓	✓	✓
Left Arm Helium flow OK ?	✓	✓	✓
Left Arm liquid level OK ?	✓	✓	✓
Left Arm Quad #1 (A)	1713.230	1713.23	1713.176
Left Arm Quad #2 (A)	980.46	980.45	980.44
Left Arm Dipole (A)	777.17	777.17	777.17
Left Arm Quad #3 (A)	906.79	906.79	906.78

Page-2: Shift Check List

Date:

	Owl	Day	Swing
Right Arm Angle	18°	18.00	18.0
Right Arm Momentum (GeV/c)	2.175	2.175	2.175
Right Arm NMR locked ?	✓	✓	✓
Right Arm Helium flow OK ?	✓	✓	✓
Right Arm liquid level OK ?	✓	✓	✓
Right Arm Quad #1 (A)	1635.523	1635.5	1635.5
Right Arm Quad #2 (A)	936.06	936.06	936.0
Right Arm Dipole (A)	758.67	758.67	758.6
Right Arm Quad #3 (A)	865.36	865.35	865.4
Argon pressure (PSI)	520.605	497.75	410.7
Ethane pressure (PSI)	486.379	571.56	518.6
CO2 pressure (PSI)	752.930	816.5	779.2
Left VDC gas flow (top/bottom)	5.31 / 5.88	4.92 / 5.09	5.12 / 5.88
Left Cerenkov pressure (PSI)	✓	✓	?
Left VDC HV on (top/bottom) ?	3.989 / 4.000	3.998 / 4.000	3.997 / 4.0
Left VDC threshold on (top/bot.) ?	3.90 / 3.97	3.90 / 3.98	3.90 / 3.97
Left S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?	✓	✓	✓
Right VDC gas flow (top/bottom)	6.217 / 5.970	5.64 / 5.44	6.12 / 5.81
Right Cerenkov pressure (PSI)	✓	✓	✓
Right VDC HV on (top/bottom) ?	-4000.4 / 4.009	4.010	? / 4.010
Right VDC threshold on (top/bot.) ?	3.87 / 3.84	3.87 / 3.84	3.87 / 3.84
Right S1/S2 HV on ?	✓	✓	?
Right Cerenkov HV on ?	✓	✓	?
Happex-run started/run-# ?	03:21 / 31427	11:34 / 31430	23:00 / 31432
Last-Left-HRS run number	2806	2817	2832
Left-HRS-DAQ deadtime	3%	4%	5%
Left-HRS-DAQ CODA rate	2232.0 e/s	1819 Hz	2500 Hz
Left-HRS-prescale PS3/PS4	5/4	5/4	5/4
Left-HRS-rates T3/T4	1.024.10 ⁴ / 2.075.10 ²	1/1 kHz / 220 Hz	1/1 kHz / 225
Last Left-HRS run replayed	2806	2816	2831
Left VDC eff./wiremap OK ?	✓	✓	✓
Last-Right-HRS run number	21706	21717	21732
Right-DAQ deadtime	11%	12	12%
Right-DAQ CODA rate	1441.0	1500 Hz	1835 Hz
Right-prescale PS1/PS2	1/1	1/1	1/1
Right-rates T1/T2	2.033403 / 56.6	2300 / 65 Hz	2200 / 64
Last Right-HRS run replayed	21706	21716	21731
Right VDC eff./wiremap OK ?	✓	✓	✓

2 ? pread but not working

A_y (E05-015) Shift Check List

Date: 5/28/09

	Owl	Day	Swing
Time (hh/mm,24:00)	04:15	10:45	21:30
Your Name	E. Jensen	S. SIRCA	J. HUANG
Visual Hall Inspection	✓	OK	✓
Beam Energy (MeV)	2425.5	2425.5	2425.5
Beam Current (uA)	11.52	11	11
# beam trips last hour	6	8	8
SPOT++ size X/Y (mm)	4x4	4x4	4x4
SPOT++ saved in Halog ?	✓	✓	✓
Beam Position at 1H04A X/Y (mm)	-0.492 / 2.184	-0.49 / -2.17	-0.
Beam Position at 1H04B X/Y (mm)	-0.495 / 2.009	-0.50 / -2.0	
Hall A beam position feedback	✓	✓	✓
Alarm Handler running ?	✓	✓	✓
Saved Hall A tools screen into Halog ?	✓	✓	✓
Wien angle	66.92	66.92	66.92
Beam half-wave plate IN/OUT ?	out	out	out
Most recent Hall A Moller date/result	5/26/09	5/26/09	5/26/09
Target position	³ He	³ He	³ He
Pol. ³ He optical pumping direction	Transverse (+)	Transverse +	Trans -
Pumping laser on ?	✓	✓	✓
Temperature in laser optics enclosure	✓		✓
Pol. ³ He oven heater ON ?	✓ (3/4.5 °C)	✓	✓
³ He cell oven temperature (RTDs)	229.6 / 243.9 / 292.5	252 / 245 / 230	230
³ He cell temperature (RTDs)	79.55 / 47.6 / 39.2 / 40.53	78 / 53 / 47 / 40 / 38	78 / 46 / 40 / 41 / 5
³ He cell polarization, recent NMR	57.77	58.5	57.6
³ He cell polarization, recent EPR	✓		✓
Spin-flip ON ?	OFF	NO	OFF
Target cooling jet flow	42.8	43	43
Ref. cell gas type	N ₂	N ₂	VAC
Ref. cell low pressure gauge (left)	790 Torr	780	1
Ref. cell high pressure gauge (right)	010 Psig	010	-18
Ref. cell temperature (RTDs)	0 / 40.3 / 40.3		0 / 40 / 40
Left Arm Angle	14.5°	14.5°	14.5
Left Arm Momentum (GeV/c)	2.277	2.277	2.277
Left Arm NMR locked ?	✓	✓	✓
Left Arm Helium flow OK ?	✓	✓	✓
Left Arm liquid level OK ?	✓	✓	✓
Left Arm Quad #1 (A)	1713.230	1713.230	1713.176
Left Arm Quad #2 (A)	980.45	980.45	980.65
Left Arm Dipole (A)	777.18	777.17	777.17
Left Arm Quad #3 (A)	906.79	906.79	906.79

Page-2: Shift Check List

Date:

	Owl	Day	Swing
Right Arm Angle	18°	18°	18
Right Arm Momentum (GeV/c)	2.175	2.175	2.17J
Right Arm NMR locked ?	✓	✓	✓
Right Arm Helium flow OK ?	✓	✓	✓
Right Arm liquid level OK ?	✓	✓	✓
Right Arm Quad #1 (A)	1635.523	1635.523	163J.523
Right Arm Quad #2 (A)	936.06	936.06	936.07
Right Arm Dipole (A)	758.67	758.67	758.67
Right Arm Quad #3 (A)	865.36	865.35	86J.3J
Argon pressure (PSI)	373.242	361	267
Ethane pressure (PSI)	512.402	792	550
CO2 pressure (PSI)	771.094	922	751
Left VDC gas flow (top/bottom)	5.33/5.88	5.4/5.9	J.32/J.67
Left Cerenkov pressure (PSI)	—	—	—
Left VDC HV on (top/bottom) ?	3.997/4.0	4.0/4.0	3.992/3.949
Left VDC threshold on (top/bot.) ?	3.90/3.97	4.0/4.0	3.89/3.96
Left S1/S2 HV on ?	✓	✓	✓
Left Cerenkov HV on ?	✓	not working ✓	✓
Right VDC gas flow (top/bottom)	6.117/5.817	6.3/6.0	6.14/5.93
Right Cerenkov pressure (PSI)	—	—	—
Right VDC HV on (top/bottom) ?	-4000.4/	4.0/4.0	0/4.006
Right VDC threshold on (top/bot.) ?	3.87/3.84	4.0/4.0	3.87/3.84
Right S1/S2 HV on ?	read out not working	—	—
Right Cerenkov HV on ?	not working	—	—
Happex-run started/run-# ?	4:26/31433 -	31434	31436
Last-Left-HRS run number	2840	2847	2880
Left-HRS-DAQ deadtime	7.97 %	8%	5%
Left-HRS-DAQ CODA rate	2537	2.7k	2.8K
Left-HRS-prescale PS3/PS4	5/4	5/4	5/4
Left-HRS-rates T3/T4	11k/216 Hz	11k/200	11K/232
Last Left-HRS run replayed	2840	2847	2880
Left VDC eff./wiremap OK ?	✓	✓	✓
Last-Right-HRS run number	21740	21747	21762
Right-DAQ deadtime	12.71 %	12%	13%
Right-DAQ CODA rate	1755	2.0k	2.1K
Right-prescale PS1/PS2	1/1	1/1	1/1
Right-rates T1/T2	2.2k/61.2 Hz	2.2k/55	2.2K/70
Last Right-HRS run replayed	21740	21747	21761
Right VDC eff./wiremap OK ?	✓	✓	✓

E05-102
A_y (E05-015) Shift Check List

Date: 5/29/09

	Owl	Day	Swing
Time (hh/mm,24:00)	5:50	14:50 30	21:50
Your Name	E. Jensen	X. Zheng	W. Boegliu
Visual Hall Inspection	✓	✓	✓
Beam Energy (MeV)	2425.5016	2425.9	2425.49
Beam Current (uA)	11.16		11.4 uA
# beam trips last hour	6		5
SPOT++ size X/Y (mm)	4x4	4x4	4x4
SPOT++ saved in Halog ?	✓	✓	✓
Beam Position at 1H04A X/Y (mm)	-0.472/2.169	-0.432/2.214	-0.441/2.147
Beam Position at 1H04B X/Y (mm)	-0.492/1.949	-0.505/2.042	-0.504/1.995
Hall A beam position feedback	✓	✓	✓
Alarm Handler running ?	✓	✓	✓
Saved Hall A tools screen into Halog ?	✓	✓	✓
Wien angle	66.92	66.92	66.92
Beam half-wave plate IN/OUT ?	out	IN	IN
Most recent Hall A Moller date/result	5/26/09		
Target position	³ He	³ He	³ He
Pol. ³ He optical pumping direction	transverse	transverse	transverse
Pumping laser on ?	✓	yes	yes
Temperature in laser optics enclosure	40	40 40, 50, 80	
Pol. ³ He oven heater ON ?	yes	yes	yes
³ He cell oven temperature (RTDs)	~230	230	230
³ He cell temperature (RTDs)	~240	40, 60, 80	40, 55, 80
³ He cell polarization, recent NMR	58.2 %	58.1	59.1 %
³ He cell polarization, recent EPR		-	-
Spin-flip ON ?	—	no	no
Target cooling jet flow	42.6	42.9 42.9	
Ref. cell gas type		D ₂	D ₂
Ref. cell low pressure gauge (left)	2 torr	0.03 0.03	1
Ref. cell high pressure gauge (right)	-16 psi	-16	135
Ref. cell temperature (RTDs)	~40	40	
Left Arm Angle	14.5°	14.5°	14.5
Left Arm Momentum (GeV/c)	2.277	2.277	2.277
Left Arm NMR locked ?	✓	✓	✓
Left Arm Helium flow OK ?	✓	✓	✓
Left Arm liquid level OK ?	✓	✓	✓
Left Arm Quad #1 (A)		1713	1713
Left Arm Quad #2 (A)	980.50	980	980.4
Left Arm Dipole (A)	777.17	777	777.8
Left Arm Quad #3 (A)	906.53	906	906.4

Page-2: Shift Check List

Date:

	Owl	Day	Swing
Right Arm Angle	18°	18°	18°
Right Arm Momentum (GeV/c)	2.175	2.175	2.175
Right Arm NMR locked ?	✓	✓	✓
Right Arm Helium flow OK ?	✓	✓	✓
Right Arm liquid level OK ?	✓	✓	✓
Right Arm Quad #1 (A)		1635	1635.3
Right Arm Quad #2 (A)	936.11	936	936.0
Right Arm Dipole (A)	758.72	756	758.6
Right Arm Quad #3 (A)	665.40	865	865.3
Argon pressure (PSI)	204.199	2744.238	2634.67
Ethane pressure (PSI)	523.535	662.69	597
CO2 pressure (PSI)	705.469	730.68	643.7
Left VDC gas flow (top/bottom)	5.13 / 5.88	5.33 / 5.87	5.07 / 5.88
Left Cerenkov pressure (PSI)	—	—	—
Left VDC HV on (top/bottom) ?	3.992 / 3.998	3.998 / 4.000	3.997 / 4.000
Left VDC threshold on (top/bot.) ?	3.89 / 3.96	3.89 / 3.96	3.90 / 3.96
Left S1/S2 HV on ?	—	✓	✓
Left Cerenkov HV on ?	—	✓	✓
Right VDC gas flow (top/bottom)	5.905 / 5.711	6.006 / 5.760	6.03 / 5.78
Right Cerenkov pressure (PSI)	—	—	—
Right VDC HV on (top/bottom) ?		4.002 / 4.009	4.000 / 4.000
Right VDC threshold on (top/bot.) ?	3.87 / 3.84	3.87 / 3.84	3.87 / 3.84
Right S1/S2 HV on ?	—	✓	? probably
Right Cerenkov HV on ?	—	✓	✓
Happex-run started/run-# ?	31438	31442 14:19	31443 19:40
Last-Left-HRS run number	2889	2908	2921
Left-HRS-DAQ deadtime	4.65%	4%	4%
Left-HRS-DAQ CODA rate	1.6 kHz	900	2.1 kHz
Left-HRS-prescale PS3/PS4	5/4	5/4	5/4
Left-HRS-rates T3/T4	2025 / 52 Hz	11K / 240	11K / 235
Last Left-HRS run replayed	2889	2995	2921
Left VDC eff./wiremap OK ?	✓	✓	✓
Last-Right-HRS run number	21770	21786	21799
Right-DAQ deadtime	12.83%	12%	12%
Right-DAQ CODA rate	1.2 kHz	1.6 kHz	1.7 kHz
Right-prescale PS1/PS2	1/1	1/1	1/1
Right-rates T1/T2	2014 / 60 Hz	2.2 kHz / 66	2.2 kHz / 67
Last Right-HRS run replayed	21770	21784	21799
Right VDC eff./wiremap OK ?	✓	✓	✓

E05-102 Shift Check List

Date: *May 30, 2009*

	Owl	Day	Swing
Time (hh/mm,24:00)		14:45	21:45
Your Name		S. Sirca	C. Neville
Visual Hall Inspection		✓	✓
Beam Energy (MeV)		2425	2425
Beam Current (uA)		11 μ A	11.8 NA
# beam trips last hour		5	6
SPOT++ size X/Y (mm)		4x4	4x4
SPOT++ saved in Halog ?		✓	✓
Beam Position at 1H04A X/Y (mm)		-0.5/2.1	-0.5, 2.2
Beam Position at 1H04B X/Y (mm)		-0.5/2.0	-0.5, 2.0
Hall A beam position feedback		ON	ON
Alarm Handler running ?		YES	Yes
Saved Hall A tools screen into Halog ?		YES	Yes
Wien angle		66.92°	66.92°
Beam half-wave plate IN/OUT ?		IN	Out
Most recent Hall A Moller date/result		05/26/09	—
Target position		³ He	³ He
Pol. ³ He optical pumping direction		long	long
Pumping laser on ?		Y	Y
Temperature in laser optics enclosure		2	—
Pol. ³ He oven heater ON ?		Y	Y
³ He cell oven temperature (RTDs)		230	230
³ He cell temperature (RTDs)		42, 53, 80	78.9/46.7/40.6/41.7/52.5
³ He cell polarization, recent NMR		59.5	56.8
³ He cell polarization, recent EPR		—	56.5
Spin-flip ON ?		NO	— No
Target cooling jet flow		0	42.8
Ref. cell gas type		D2	D2
Ref. cell low pressure gauge (left)		1	1
Ref. cell high pressure gauge (right)		135	134
Ref. cell temperature (RTDs)		40(?)	?
Left Arm Angle		14.5°	14.5°
Left Arm Momentum (GeV/c)		2.277	2.277
Left Arm NMR locked ?		YES	Yes
Left Arm Helium flow OK ?		✓	✓
Left Arm liquid level OK ?		✓	✓
Left Arm Quad #1 (A)		1713.336	1713.230
Left Arm Quad #2 (A)		780.39	780.39
Left Arm Dipole (A)		777.79	777.79
Left Arm Quad #3 (A)		906.42	906.41

Page-2: Shift Check List

Date:

	Owl	Day	Swing
Right Arm Angle		18.0	17.998
Right Arm Momentum (GeV/c)		2.175	2.175
Right Arm NMR locked ?		YES	Yes
Right Arm Helium flow OK ?		fluctuating but \approx ok	Good
Right Arm liquid level OK ?		✓	✓
Right Arm Quad #1 (A)		1635.309	1635.309
Right Arm Quad #2 (A)		936.01	936.00
Right Arm Dipole (A)		758.64	758.64
Right Arm Quad #3 (A)		865.30	865.29
Argon pressure (PSI)		2548	2464.402
Ethane pressure (PSI)		631	577
CO2 pressure (PSI)		544	466
Left VDC gas flow (top/bottom)		5.4/5.9	5.0/5.9
Left Cerenkov pressure (PSI)		/	/
Left VDC HV on (top/bottom) ?		4.0/4.0	4.0/4.0
Left VDC threshold on (top/bot.) ?		4.0/4.0	3.9/3.96
Left S1/S2 HV on ?		✓	✓
Left Cerenkov HV on ?		✓	✓
Right VDC gas flow (top/bottom)		5.8/5.6	6.0/5.6
Right Cerenkov pressure (PSI)		/	/
Right VDC HV on (top/bottom) ?		4.0/4.0	0.0/4.0
Right VDC threshold on (top/bot.) ?		4.0/4.0	3.87/3.84
Right S1/S2 HV on ?		✓	✓
Right Cerenkov HV on ?		✓	✓
Happex-run started/run-# ?		31446	31448
Last-Left-HRS run number		2961	2995
Left-HRS-DAQ deadtime		4	4
Left-HRS-DAQ CODA rate		2.7k	2.7k
Left-HRS-prescale PS3/PS4		5/4	5/4
Left-HRS-rates T3/T4		11k/230	11k/221
Last Left-HRS run replayed		2961	2974
Left VDC eff./wiremap OK ?		✓	✓
Last-Right-HRS run number		21838	21852
Right-DAQ deadtime		11	12
Right-DAQ CODA rate		2.0k	2.1k
Right-prescale PS1/PS2		1/1	1/1
Right-rates T1/T2		2.2k/66	2.2k/63
Last Right-HRS run replayed		21838	21851
Right VDC eff./wiremap OK ?		✓	✓

E05-102 Shift Check List

Date: 05/31/09

	Owl	Day	Swing
Time (hh/mm,24:00)	05:22	12:31	20:13
Your Name	M. MIHOVILOVIC	E. Long	C. Neville
Visual Hall Inspection	✓	OK	OK
Beam Energy (MeV)	2425.4932	2425	2425
Beam Current (uA)	11.55	11	11.5 uA
# beam trips last hour	5	3	4
SPOT++ size X/Y (mm)	4x4 mm _y	4x4 mm ²	4x4 mm ²
SPOT++ saved in Halog ?	✓		✓
Beam Position at 1H04A X/Y (mm)	-0.406 / 2.168	-0.482 / 2.166	-0.499 / 2.16
Beam Position at 1H04B X/Y (mm)	-0.444 / 2.005	-0.485 / 2.021	-0.5 / 2.0
Hall A beam position feedback	ON ✓	On	On
Alarm Handler running ?	YES	Yes	Yes
Saved Hall A tools screen into Halog ?	✓	Yes	✓
Wien angle	66.92	66.92	66.92
Beam half-wave plate IN/OUT ?	OUT	Out	Out
Most recent Hall A Moller date/result	05/26/09	5/27/09	5/27/09
Target position	³ He	Pol. ³ He	³ He
Pol. ³ He optical pumping direction	long	Long.	Long.
Pumping laser on ?	yes	Yes	Yes
Temperature in laser optics enclosure	—		
Pol. ³ He oven heater ON ?	yes	Yes	yes
³ He cell oven temperature (RTDs)	230	230	230/225/252
³ He cell temperature (RTDs)	~230	51°	77.7/46.3/39.7/41.9/52
³ He cell polarization, recent NMR	61.6%	61.6%	62.2%
³ He cell polarization, recent EPR	—	—	—
Spin-flip ON ?	—	off	No
Target cooling jet flow	43.1	43.1	43.0
Ref. cell gas type	D2	D2	D2
Ref. cell low pressure gauge (left)	1 Torr	1 torr	1
Ref. cell high pressure gauge (right)	134 psig	134 psig	134
Ref. cell temperature (RTDs)	100, 30, 30	-100, -30, -30	-100, -20, -20
Left Arm Angle	14.5°	14.5°	14.5°
Left Arm Momentum (GeV/c)	2.277	2.277	2.277
Left Arm NMR locked ?	✓	Yes	✓
Left Arm Helium flow OK ?	YES	Yes	Yes
Left Arm liquid level OK ?	YES	Yes	Yes
Left Arm Quad #1 (A)	1713.230	1713	1713
Left Arm Quad #2 (A)	980.39	980	980
Left Arm Dipole (A)	777.80	777	777
Left Arm Quad #3 (A)	906.42	906	906

Page-2: Shift Check List

Date:

	Owl	Day	Swing
Right Arm Angle	18°	18°	18.0°
Right Arm Momentum (GeV/c)	2.175	2.175	2.175
Right Arm NMR locked ?	✓	Yes	Yes
Right Arm Helium flow OK ?	NO!!! (Q1)	NO!!! (Q1)	No (Q1)
Right Arm liquid level OK ?	✓	Yes	✓
Right Arm Quad #1 (A)	1635.309	1635	1635
Right Arm Quad #2 (A)	936.00	936	936
Right Arm Dipole (A)	758.64	756	758
Right Arm Quad #3 (A)	865.30	865	865
Argon pressure (PSI)	2366.557	2402	2340
Ethane pressure (PSI)	521.191	616	605
CO2 pressure (PSI)	395.922	369	297
Left VDC gas flow (top/bottom)	5.10 / 5.741	5.4/5.9	5.25 / 5.9
Left Cerenkov pressure (PSI)	✓	—————	—————
Left VDC HV on (top/bottom) ?	3.991 / 3.998	Yes/Yes	4.0/4.0
Left VDC threshold on (top/bot.) ?	3.90 / 3.97	4.0/4.0	4.0/4.0
Left S1/S2 HV on ?	✓		✓
Left Cerenkov HV on ?	✓		✓
Right VDC gas flow (top/bottom)	6.062 / 5.894	5.9/5.7	6.2 / 6.0
Right Cerenkov pressure (PSI)	✓	—————	—————
Right VDC HV on (top/bottom) ?	-4.0004 / 4.008	Yes/Yes	0.0 / 4.0
Right VDC threshold on (top/bot.) ?	3.87 / 3.84	4.0/4.0	4.0/4.0
Right S1/S2 HV on ?	✓		✓
Right Cerenkov HV on ?	✓		✓
Happex-run started/run-# ?	02820 / #31449	10:58 / 31451	20:45 / 31453
Last-Left-HRS run number	47 2991	3007	3021
Left-HRS-DAQ deadtime	4%	4%	4%
Left-HRS-DAQ CODA rate	7MB/s Diff	532 KB/s	32.75 MB/s
Left-HRS-prescale PS3/PS4	5/4	5/4	5/4
Left-HRS-rates T3/T4	7K / 11z	10kHz / 223Hz	9.6 / 11 Hz
Last Left-HRS run replayed	2991	3005	3021
Left VDC eff./wiremap OK ?	✓	OK	✓
Last-Right-HRS run number	21868	21885	21900
Right-DAQ deadtime	12%	12%	12%
Right-DAQ CODA rate	2.7MB/s Diff	1649 KB/s	50 MB/s
Right-prescale PS1/PS2	1/1	1/1	1/1
Right-rates T1/T2	2.2K / 6z	2.2kHz / 67Hz	2.3kHz / 63Hz
Last Right-HRS run replayed	2991	21885	21900
Right VDC eff./wiremap OK ?	✓	OK	✓