

Undulator 08
 Date 13 FEB 2009
 Crew FG HI

PM Checks

"X"

28.123 LOS

PM4

RD
 LOS
 S/T
 FT
 VAL

X1) BUCK IN

 [0]

Y1) 30.723
 28.123

 -2.600
 -1 _____
 [-3.600] ✓

Y2) 30.723
 28.123

 -2.600
 -1 _____
 [-3.600] ✓

PM3

X1) 29.006
 28.123

 -0.883
 -1 _____
 [-1.883] ✓

Y1) 28.600
 28.123

 -0.477
 -1 _____
 [-1.477] ✓

Y2) 32.601
 28.123

 -4.478
 -1 _____
 [-5.478] ✓

PM2

X1) 29.009
 28.123

 0.886
 -1 _____
 [-1.886] ✓

Y1) 32.606
 28.123

 -4.483
 -1 _____
 [-5.483] ✓

Y2) 32.609
 28.123

 -4.486
 -1 _____
 [-5.486] ✓

PM1

X1) BUCK IN

 [0]

Y1) 30.719
 28.123

 -2.596
 -1 _____
 [-3.596] ✓

Y2) 30.734
 28.123

 -2.611
 -1 _____
 [-3.611] ✓

MMF

Undulator 08
 Date 02/13/09
 Crew HI, FG

PM Checks

"Y"

Avg. PM4Y1 & PM1Y1 = HI

PM4Y1)

PM1Y1)

$$\begin{array}{r} 6.396 \\ \hline 1 \\ \hline 7.396 \checkmark \end{array}$$

$$\begin{array}{r} 6.390 \\ \hline 1 \\ \hline 7.390 \checkmark \end{array}$$

$$\begin{array}{r} 7.393 \checkmark \\ \hline \text{HI} \end{array}$$

PM4

PM3

Y1)

$$\begin{array}{r} 6.396 \\ \hline 1 \\ \hline 7.396 \checkmark \\ 7.393 \\ \hline \boxed{-1.003} \checkmark \end{array}$$

X1)

$$\begin{array}{r} 10.002 \\ \hline 1 \\ \hline 11.002 \\ 7.393 \\ \hline \boxed{-3.609} \checkmark \end{array}$$

Y2)

$$\begin{array}{r} 6.399 \\ \hline 1 \\ \hline 7.399 \checkmark \\ 7.393 \\ \hline \boxed{-1.006} \checkmark \end{array}$$

X1)

$$\begin{array}{r} 10.001 \\ \hline 1 \\ \hline 11.001 \\ 7.393 \\ \hline \boxed{-3.608} \checkmark \end{array}$$

PM2

PM1

Y1)

$$\begin{array}{r} 6.398 \\ \hline 1 \\ \hline 7.398 \checkmark \\ 7.393 \\ \hline \boxed{-1.005} \checkmark \end{array}$$

X1)

$$\begin{array}{r} 9.997 \\ \hline 1 \\ \hline 10.997 \checkmark \\ 7.393 \\ \hline \boxed{-3.604} \checkmark \end{array}$$

Y1)

$$\begin{array}{r} 6.390 \\ \hline 1 \\ \hline 7.390 \\ 7.393 \\ \hline \boxed{+1.003} \checkmark \end{array}$$

X1)

$$\begin{array}{r} 10.002 \\ \hline 1 \\ \hline 11.002 \\ 7.393 \\ \hline \boxed{-3.609} \checkmark \end{array}$$

TOP OF GAGE BLOCK

$$\begin{array}{r} 11.798 \\ \hline 7.393 \\ \hline \boxed{-4.405} \checkmark \end{array}$$

MMF

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"X"

PM Checks

BUCKIN

F Value PM1X1) 0

N Value PM4X1) 0

F 27.163 +1
N 27.134 +1
F 27 — +1
N 27.690 +1

F S/R 28.123 -1

N S/R 28.123 -1

LOS 28.123

Undulator

R.D 1) 32.611 2) 32.605 3) 32.606 4) 32.609
LOS 28.123 28.123 28.123 28.123

S/T -4.488 -4.482 -4.483 -4.486

FT -1 -1 -1 -1

VAL -5.488 ✓ -5.482 ✓ -5.483 ✓ -5.486 ✓

5) 22.830 6) 22.824 7) 22.828 8) 22.828
28.123 28.123 28.123 28.123

5.293 5.299 5.295 5.295

-1 -1 -1 -1
VAL 4.293 ✓ 4.299 ✓ 4.295 ✓ 4.295 ✓

Ref. Block

A) 34.158 B) 29.624 C) 27.862 D) 27.866
28.123 28.123 28.123 28.123

-6.035 -1.501 0.261 0.257

-1 -1 -1 -1
VAL -7.035 ✓ -2.501 ✓ -0.739 -0.743

MMF

Undulator 08
Date 02/13/09
Crew HL, FG

PM Checks

"Y" 7.393 HI

Undulator

$$\begin{array}{r}
 1) \quad 1 \\
 \hline
 2.917 \\
 3.917 \\
 7.393 \\
 \hline
 \boxed{+3.476} \checkmark
 \end{array}$$

$$\begin{array}{r}
 2) \quad 1 \\
 \hline
 2.918 \\
 3.918 \\
 7.393 \\
 \hline
 \boxed{+3.475} \checkmark
 \end{array}$$

$$\begin{array}{r}
 3) \quad 1 \\
 \hline
 2.921 \\
 3.921 \\
 7.393 \\
 \hline
 \boxed{+3.472} \checkmark
 \end{array}$$

$$\begin{array}{r}
 4) \quad 1 \\
 \hline
 2.914 \\
 3.914 \\
 7.393 \\
 \hline
 \boxed{+3.479} \checkmark
 \end{array}$$

$$\begin{array}{r}
 5) \quad 1 \\
 \hline
 10.000 \\
 11.000 \\
 7.393 \\
 \hline
 \boxed{-3.607} \checkmark
 \end{array}$$

$$\begin{array}{r}
 6) \quad 1 \\
 \hline
 9.997 \\
 10.997 \\
 7.393 \\
 \hline
 \boxed{-3.604} \checkmark
 \end{array}$$

$$\begin{array}{r}
 7) \quad 1 \\
 \hline
 9.997 \\
 10.997 \\
 7.393 \\
 \hline
 \boxed{-3.604} \checkmark
 \end{array}$$

$$\begin{array}{r}
 8) \quad 1 \\
 \hline
 9.997 \\
 10.997 \\
 7.393 \\
 \hline
 \boxed{-3.604} \checkmark
 \end{array}$$

Ref. Block

$$\begin{array}{r}
 A) \quad 1 \\
 \hline
 6.637 \\
 7.637 \\
 7.393 \\
 \hline
 \boxed{-0.244} \checkmark
 \end{array}$$

$$\begin{array}{r}
 B) \\
 \hline
 \\
 \hline
 \boxed{}
 \end{array}$$

$$\begin{array}{r}
 C) \quad 1 \\
 \hline
 8.781 \\
 9.781 \\
 7.393 \\
 \hline
 \boxed{-2.388} \checkmark
 \end{array}$$

$$\begin{array}{r}
 D) \quad 1 \\
 \hline
 11.861 \\
 12.861 \\
 7.393 \\
 \hline
 \boxed{-5.468} \checkmark
 \end{array}$$

Flats

U/S

D/S

$$\begin{array}{r}
 (+) \quad 7.393 \\
 5.681 \\
 \hline
 \boxed{+1.712} \checkmark
 \end{array}$$

$$\begin{array}{r}
 (-) \quad 7.393 \\
 5.682 \\
 \hline
 \boxed{+1.711} \checkmark
 \end{array}$$

$$\begin{array}{r}
 (+) \quad 7.393 \\
 5.680 \\
 \hline
 \boxed{+1.713} \checkmark
 \end{array}$$

$$\begin{array}{r}
 (-) \quad 7.393 \\
 5.680 \\
 \hline
 \boxed{+1.713} \checkmark
 \end{array}$$

MMF

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Date 02/13/09
Crew HI, FG

PM Checks

"X"

PROBE

BUCKIN

Tagets on stand and far wall = - 5.470"

-5.470 LOS
+1.025 MIC TO + EDGE
-5.445
-0.039 TO SENSOR
-5.484 PROBE LOC.

MMF

Undulator SN08
Date 2-12-09
Crew M.R., L.G.

LONG COIL CHECK

"X"

BUCKIN

F Value PM1X1) 0
N Value PM4X1) 0
F 29.000+1
N 27.623+1
F 25.000+1
N 26.555+1
F S/R 28.121-1
N S/R 27.121+1

COIL

U/S) 36.845
28.121
-8.724 ✓
D/S) 36.850
28.121
-8.729 ✓

Ave. = -8.727 ✓

LOS + 28.121

"Y"

+63
-17

PM4Y1
3.860
1
4.860 ✓
3.601" Val.
8.461 ✓

PM1Y1
3.852
1
4.852 ✓
3.599" Val.
8.451 ✓

Ave. HI = 8.456 ✓

19.795 REF.
8.456 HI ✓
11.839 C/L ✓

U/S) +1.003 Read
12.558 Ref.
12.561 Wire C/L ✓
11.339 Ref. C/L

1.222 ✓

D/S) +1.002 Read
12.565 Ref.
12.567 Wire C/L ✓
11.339 Ref. C/L

1.228 ✓

Ave. = 1.225 ✓