

MMF

Undulator 21  
Date 10/2/08  
Crew SM<sup>s</sup> MR  
"X"

PM Checks

BUCKIN

F Value PM1X1) 0

N Value PM4X1) 0

F 26.778+1

N 26.778+1

F \_\_\_\_\_

N \_\_\_\_\_

F S/R \_\_\_\_\_

N S/R \_\_\_\_\_

**LOS 27.778**

Undulator

$$\begin{array}{r} 1) 32.259 \\ \underline{1.} \\ 33.259 \\ 27.778 \\ \hline -5.481 \end{array}$$

$$\begin{array}{r} 2) 32.259 \\ \underline{1.} \\ 33.259 \\ 27.778 \\ \hline -5.481 \end{array}$$

$$\begin{array}{r} 3) 32.258 \\ \underline{1.} \\ 33.258 \\ 27.778 \\ \hline -5.480 \end{array}$$

$$\begin{array}{r} 4) 32.254 \\ \underline{1.} \\ 33.254 \\ 27.778 \\ \hline -5.476 \end{array}$$

$$\begin{array}{r} 5) 22.483 \\ \underline{1.} \\ 23.483 \\ 27.778 \\ \hline 4.295 \end{array}$$

$$\begin{array}{r} 6) 22.482 \\ \underline{1.} \\ 23.482 \\ 27.778 \\ \hline 4.296 \end{array}$$

$$\begin{array}{r} 7) 22.479 \\ \underline{1.} \\ 23.479 \\ 27.778 \\ \hline 4.299 \end{array}$$

$$\begin{array}{r} 8) 22.478 \\ \underline{1.} \\ 23.478 \\ 27.778 \\ \hline 4.300 \end{array}$$

Ref. Block

$$\begin{array}{r} A) 33.813 \\ \underline{1.} \\ 34.813 \\ 27.778 \\ \hline -7.035 \end{array}$$

$$\begin{array}{r} B) 29.280 \\ \underline{1.} \\ 30.280 \\ 27.778 \\ \hline -2.502 \end{array}$$

$$\begin{array}{r} C) 27.521 \\ \underline{1.} \\ 28.521 \\ 27.778 \\ \hline -0.743 \end{array}$$

$$\begin{array}{r} D) 27.519 \\ \underline{1.} \\ 28.519 \\ 27.778 \\ \hline -0.741 \end{array}$$

3.534  
4.533

MMF

Undulator 21  
Date 10/2/08  
Crew JM<sup>c</sup> MR

PM Checks

"Y"

Avg. PM4Y1 & PM1Y1 = HI

PM4Y1)  
6.614  
1. —  
—  
7.614

PM1Y1)  
6.617  
1. —  
—  
7.617

7.616 HI

PM4

Y1) 6.614  
1. —  
—  
7.614  
7.616  
+0.002

X1) 10.218  
1. —  
—  
11.218  
7.616  
-3.602

PM3

Y2) 6.617  
1. —  
—  
7.617  
7.616  
-0.001

X1) 10.217  
1. —  
—  
11.217  
7.616  
-3.601

PM2

Y1) 6.618  
1. —  
—  
7.618  
7.616  
-0.002

X1) 10.218  
1. —  
—  
11.218  
7.616  
-3.602

PM1

Y1) 6.617  
1. —  
—  
7.617  
7.616  
-0.001

X1) 10.227  
1. —  
—  
11.227  
7.616  
-3.611

TOP OF GAGE BLOCK

12.015  
7.616  
-4.399

Undulator 21  
Date 10/2/08  
Crew JME MR

MMF

PM Checks

"X"

LOS

PM4

X1)  
BUCK IN

Y1)  
30.379  
1. ———

Y2)  
30.384  
1. ———

27.778

31.379  
27.778

31.384  
27.778

0

-3.601

-3.606

PM3

X1) 28.660  
1. ———

Y1) 32.253  
1. ———

Y2) 32.260  
1. ———

29.660  
27.778

33.253  
27.778

33.260  
27.778

-1.882

-5.475

-5.482

PM2

X1) 28.654  
1. ———

Y1) 32.253  
1. ———

Y2) 32.253  
1. ———

29.654  
27.778

33.253  
27.778

33.253  
27.778

-1.876

-5.475

-5.475

PM1

X1)  
BUCK IN

Y1)  
30.370  
1. ———

Y2)  
30.385  
1. ———

27.778

31.370  
27.778

31.385  
27.778

0

-3.592

-3.607

MMF

Undulator 21  
Date 10/2/08  
Crew SM<sup>E</sup> MR

PM Checks

"Y" 7.616 HI

Undulator

$$\begin{array}{r} 1) 3.136 \\ 1. \text{---} \\ \hline 4.136 \end{array}$$

$$\begin{array}{r} 7.616 \\ \hline 3.480 \end{array}$$

$$\begin{array}{r} 2) 3.135 \\ 1. \text{---} \\ \hline 4.135 \end{array}$$

$$\begin{array}{r} 7.616 \\ \hline 3.481 \end{array}$$

$$\begin{array}{r} 3) 3.140 \\ 1. \text{---} \\ \hline 4.140 \end{array}$$

$$\begin{array}{r} 7.616 \\ \hline 3.476 \end{array}$$

$$\begin{array}{r} 4) 3.139 \\ 1. \text{---} \\ \hline 4.139 \end{array}$$

$$\begin{array}{r} 7.616 \\ \hline 3.477 \end{array}$$

$$\begin{array}{r} 5) 10.216 \\ 1. \text{---} \\ \hline 11.216 \end{array}$$

$$\begin{array}{r} 7.616 \\ \hline -3.600 \end{array}$$

$$\begin{array}{r} 6) 10.216 \\ 1. \text{---} \\ \hline 11.216 \end{array}$$

$$\begin{array}{r} 7.616 \\ \hline -3.600 \end{array}$$

$$\begin{array}{r} 7) 10.217 \\ 1. \text{---} \\ \hline 11.217 \end{array}$$

$$\begin{array}{r} 7.616 \\ \hline -3.601 \end{array}$$

$$\begin{array}{r} 8) 10.219 \\ 1. \text{---} \\ \hline 11.219 \end{array}$$

$$\begin{array}{r} 7.616 \\ \hline -3.603 \end{array}$$

Ref. Block

$$\begin{array}{r} A) 6.851 \\ 1. \text{---} \\ \hline 7.851 \end{array}$$

$$\begin{array}{r} 7.616 \\ \hline -0.235 \end{array}$$

~~B)~~

$$\begin{array}{r} \hline 7.616 \\ \hline \end{array}$$

$$\begin{array}{r} C) 8.997 \\ 1. \text{---} \\ \hline 9.997 \end{array}$$

$$\begin{array}{r} 7.616 \\ \hline -2.381 \end{array}$$

$$\begin{array}{r} D) 12.077 \\ 1. \text{---} \\ \hline 13.077 \end{array}$$

$$\begin{array}{r} 7.616 \\ \hline -5.461 \end{array}$$

Flats

U/S

$$\begin{array}{r} (+) 5.897 \\ 7.616 \\ \hline 1.719 \end{array}$$

D/S

$$\begin{array}{r} (-) 5.899 \\ 7.616 \\ \hline 1.717 \end{array}$$

$$\begin{array}{r} (+) 5.899 \\ 7.616 \\ \hline 1.717 \end{array}$$

$$\begin{array}{r} (-) 5.900 \\ 7.616 \\ \hline 1.716 \end{array}$$

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PM Checks

"X"

PROBE

BUCKIN

Tagets on stand and far wall = - 5.470"

-5.470 LOS  
/ +0.029 MIC TO + EDGE  
- 5.441  
/ -0.039 TO SENSOR  
**-5.480** PROBE LOC.