ECHO -7 Undulator
NLCTA U33

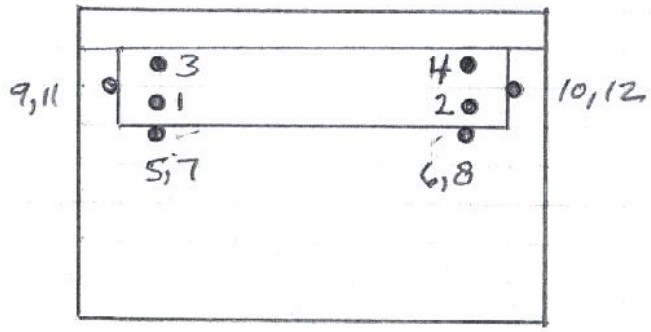
1/22/2010
JM, LG

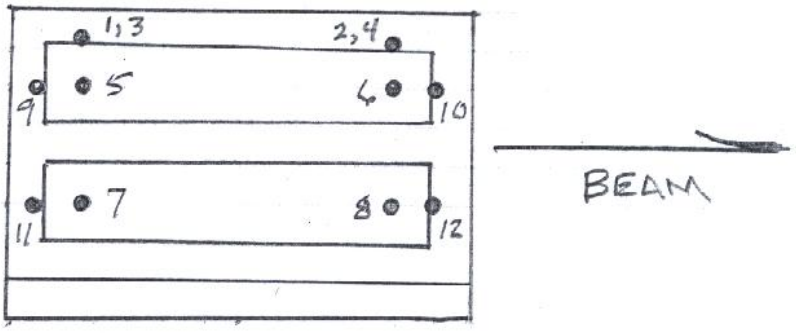
Undulator Values(in.)

TB	X	Y
1	-0.752	6.835
2	-0.748	6.835
3	0.751	6.835
4	0.755	6.834
5	-3.254	3.830
6	-3.252	3.830
7	-3.254	-3.848
8	-3.252	-3.848
9	0.001	3.833
10	0.005	3.828
11	0.001	-3.850
12	0.005	-3.848

Undlator Values (mm)

TB	X	Y
1	-19.1008	173.6090
2	-18.9992	173.6090
3	19.0754	173.6090
4	19.1770	173.5836
5	-82.6516	97.2820
6	-82.6008	97.2820
7	-82.6516	-97.7392
8	-82.6008	-97.7392
9	0.0254	97.3582
10	0.1270	97.2312
11	0.0254	-97.7900
12	0.1270	-97.7392





MMF. 1-21-0

ECHO-7 UNDULATOR JM, LG

(X)

PM1X1) .136739M = 5.383"
PM4X1) .136759M = 5.384"

~~33.000+1~~
~~29.431+1~~
23.000+1
26.875+1

29.191-1
~~29.190-1~~ 28.203+1

29.208-1 34.591 LOS
29.207-1

PM1Y1) 1.783
PM4Y1) 1.783
-5.000+1.250
-6.340+1.250
-8.000+1.250
-7.091+1.250

-6.787+1.250
-6.787+1.250

-5.004
1.250
-6.254 LOS

4.460

PM1Y1
31.808
1.
32.808
34.591
1.783

PM4Y1
31.808
1
32.808
34.591
1.783

UNDULATOR

1) 4.502
1.
5.502
-6.254
-.752

2) 4.506
1
5.506
-6.254
-.748

3) 6.005
1.
7.005
-6.254
+.751

4) 6.009
1
7.009
-6.254
+.755

5) 2.000
1.
3.000
-6.254
-3.254

6) 2.002
1
3.002
-6.254
-3.252

7) 2.000
1.
3.000
-6.254
-3.254

8) 2.002
1
3.002
-6.254
-3.252

9) 5.255
1
6.255
-6.254
+.001

10) 5.259
1
6.259
-6.254
+.005

11) 5.255
1
6.255
-6.254
+.001

12) 5.259
1
6.259
-6.254
+.005

MMF

ECHO-7 UNDULATOR

1-21-10
JM, LG.

(Y)

PM VALUES FROM UND. MAGNET & FROM YURII

PM4

.091343M = 3.596"

8.105
1.——
9.105
3.596
12.701

PM1

.091397M = 3.598"

8.101
1.——
9.101
3.598
12.699

$\bar{M}$ = 12.700 HI

1) 4.865
1.——
5.865
12.700
6.835

2) 4.865
1——
5.865
12.700
6.835

3) 4.865
1.——
5.865
12.700
6.835

4) 4.866
1——
5.866
12.700
6.834

5) 7.870
1.——
8.870
12.700
3.830

6) 7.870
1——
8.870
12.700
3.830

7) 15.548
1——
16.548
12.700
-3.848

8) 15.548
1——
16.548
12.700
-3.848

9) 7.867
1——
8.867
12.700
3.833

10) 7.872
1.——
8.872
12.700
3.828

11) 15.550
1——
16.550
12.700
-3.850

12) 15.548
1.——
16.548
12.700
-3.848