



- NOTES:
1. DRAWING PREPARED IN ACCORDANCE WITH ASME Y14.100-2000.
 2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.
 3. DIMENSIONS ARE IN INCHES.
 4. DIMENSIONS APPLY AT ROOM TEMPERATURE, OPERATING TEMP 80K.

layer #	thickness (in)	dist wc to layer center (in)
layer 11	0.4050	2.0250
layer 10	0.4050	1.6200
layer 9	0.4050	1.2150
layer 8	0.4050	0.8100
layer 7	0.4050	0.4050
layer 6	0.4050	0.0000
layer 5	0.4050	-0.4050
layer 4	0.4050	-0.8100
layer 3	0.4050	-1.2150
layer 2	0.4050	-1.6200
layer 1	0.4050	-2.0250
groundwrap	0.0350	-2.2450
cladding	0.0475	-2.2863
gap	0.0100	-2.3150

dist from wc to calc layers center (in) 0.0000

reference dist from wc to base (in) 2.3200

RELEASED FOR FABRICATION / INSTALLATION
PPPL Drafting:

SCALE 4.00

SCALE	NOTED	DESIGNED BY	DATE	CHKD BY	DATE	PE	REQD DATE	OWN	USE DATE
1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
1/8" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
3/16" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
1" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
1 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
1 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
1 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
2 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
2 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
2 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
3" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
3 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
3 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
3 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
4 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
4 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
4 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
5" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
5 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
5 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
5 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
6" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
6 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
6 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
6 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
7" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
7 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
7 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
7 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
8" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
8 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
8 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
8 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
9" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
9 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
9 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
9 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
10" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
10 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
10 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
10 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
11" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
11 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
11 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
11 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
12" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
12 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
12 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
12 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
13" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
13 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
13 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
13 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
14" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
14 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
14 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
14 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
15" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
15 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
15 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
15 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
16" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
16 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
16 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
16 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
17" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
17 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
17 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
17 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
18" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
18 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
18 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
18 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
19" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
19 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
19 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
19 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
20" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
20 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
20 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
20 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
21" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
21 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
21 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
21 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
22" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
22 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
22 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
22 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
23" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
23 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
23 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
23 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
24" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
24 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
24 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
24 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
25" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
25 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
25 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
25 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
26" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
26 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
26 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
26 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
27" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
27 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
27 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
27 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
28" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
28 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
28 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
28 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
29" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
29 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
29 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
29 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
30" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
30 1/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
30 1/2" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
30 3/4" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
31" = 1"		WILLIAMSON	12-95	WILLIAMSON	12-95				
31 1/4" = 1"									