VERMONT YANKEE
1998 IWE TORUS INSPECTION REPORT

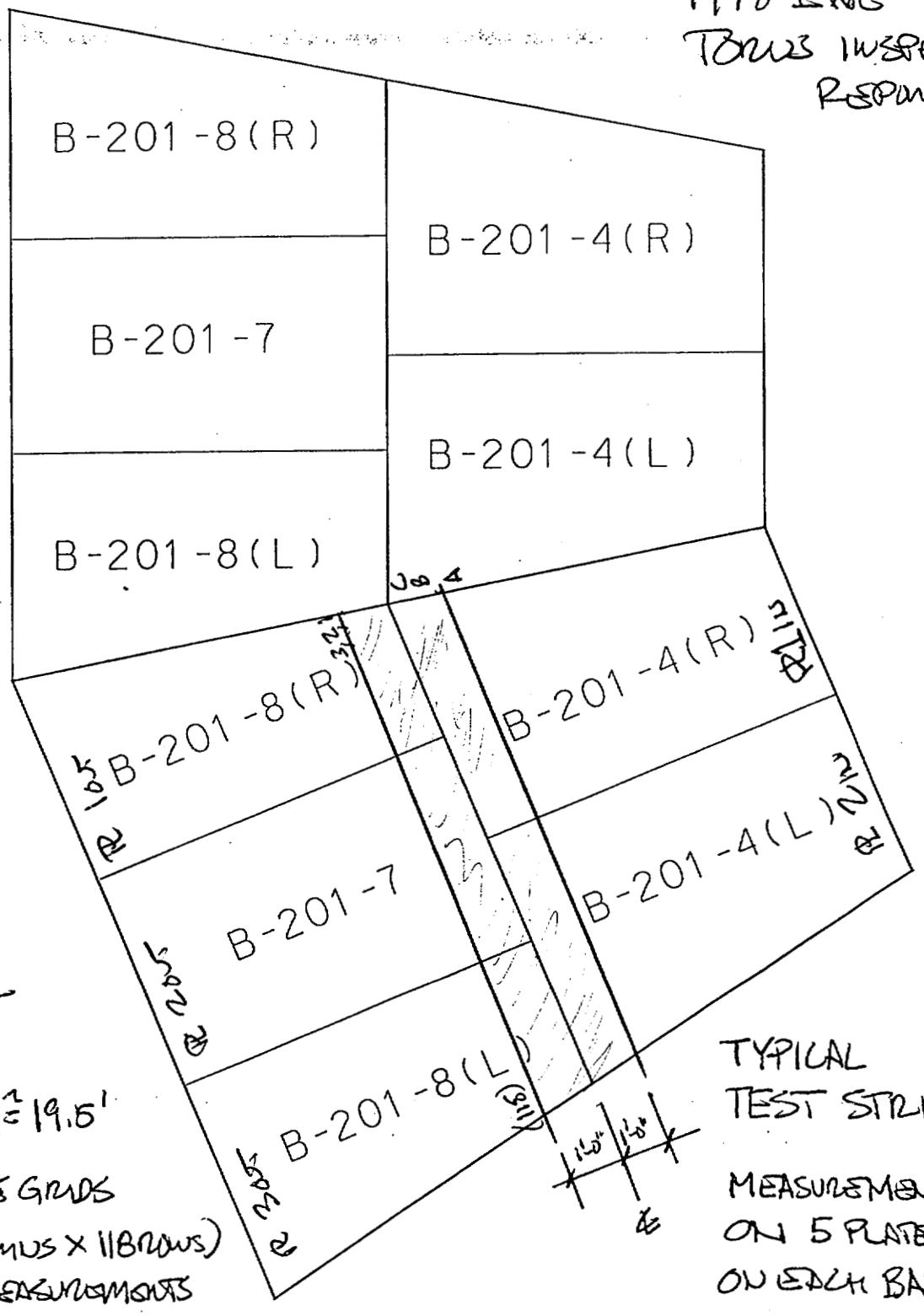
1,2,8/99

APPENDIX B

BOTTOM TEST STRIPS BAYS 8 AND 16

PLOTS OF UT THICKNESS READINGS AND EVALUATION OF PLATE THICKNESS VARIATION

APPENDIX B
1998 IWE
TORUS INSPECTION
REPORT.



TYPICAL BAY.

℄ LENGTH = 19.5'

2" SQUARE GRIDS (12 COLUMNS X 11 ROWS) OR MEASUREMENTS

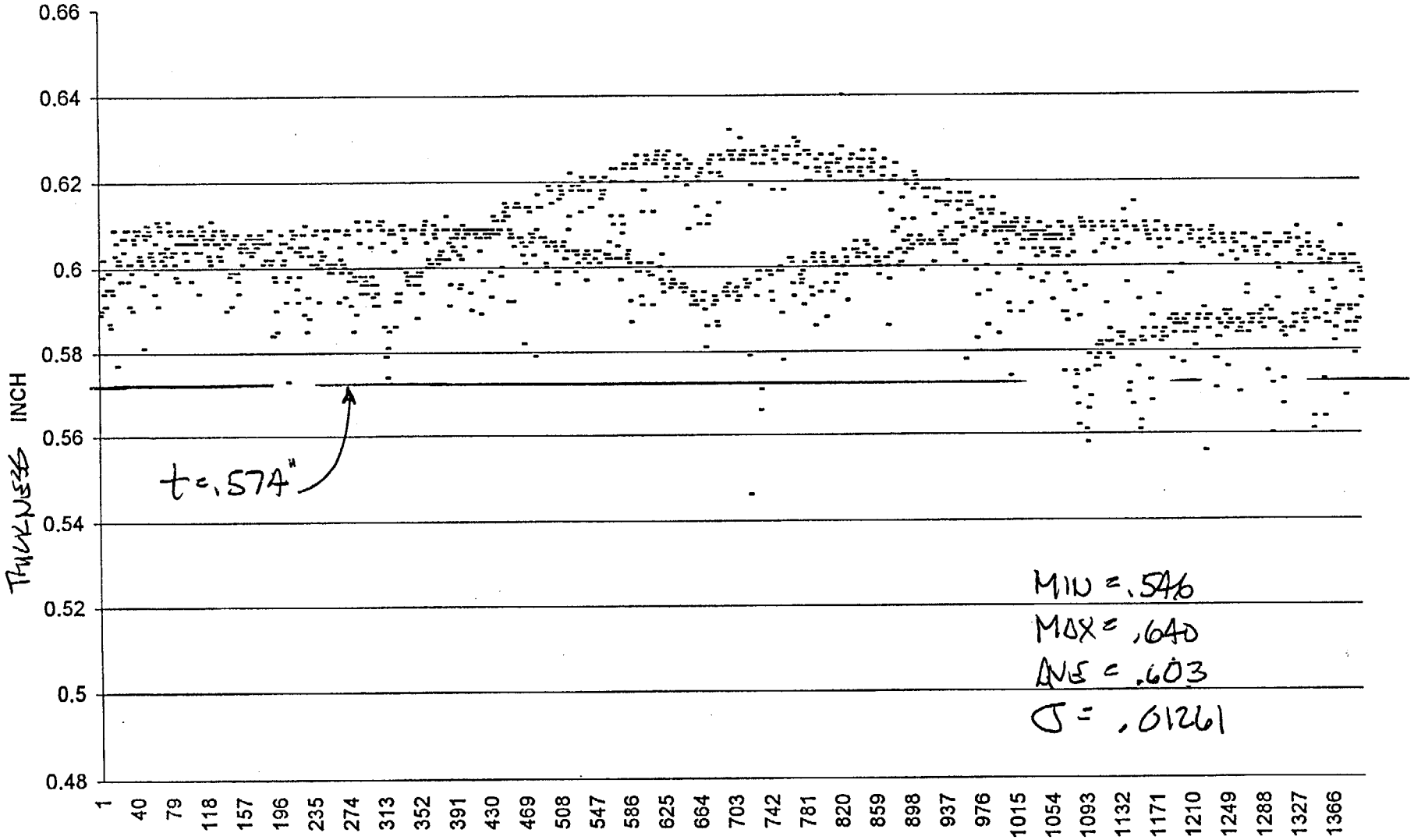
TYPICAL TEST STRIP

MEASUREMENTS ON 5 PLATES ON EACH BAY

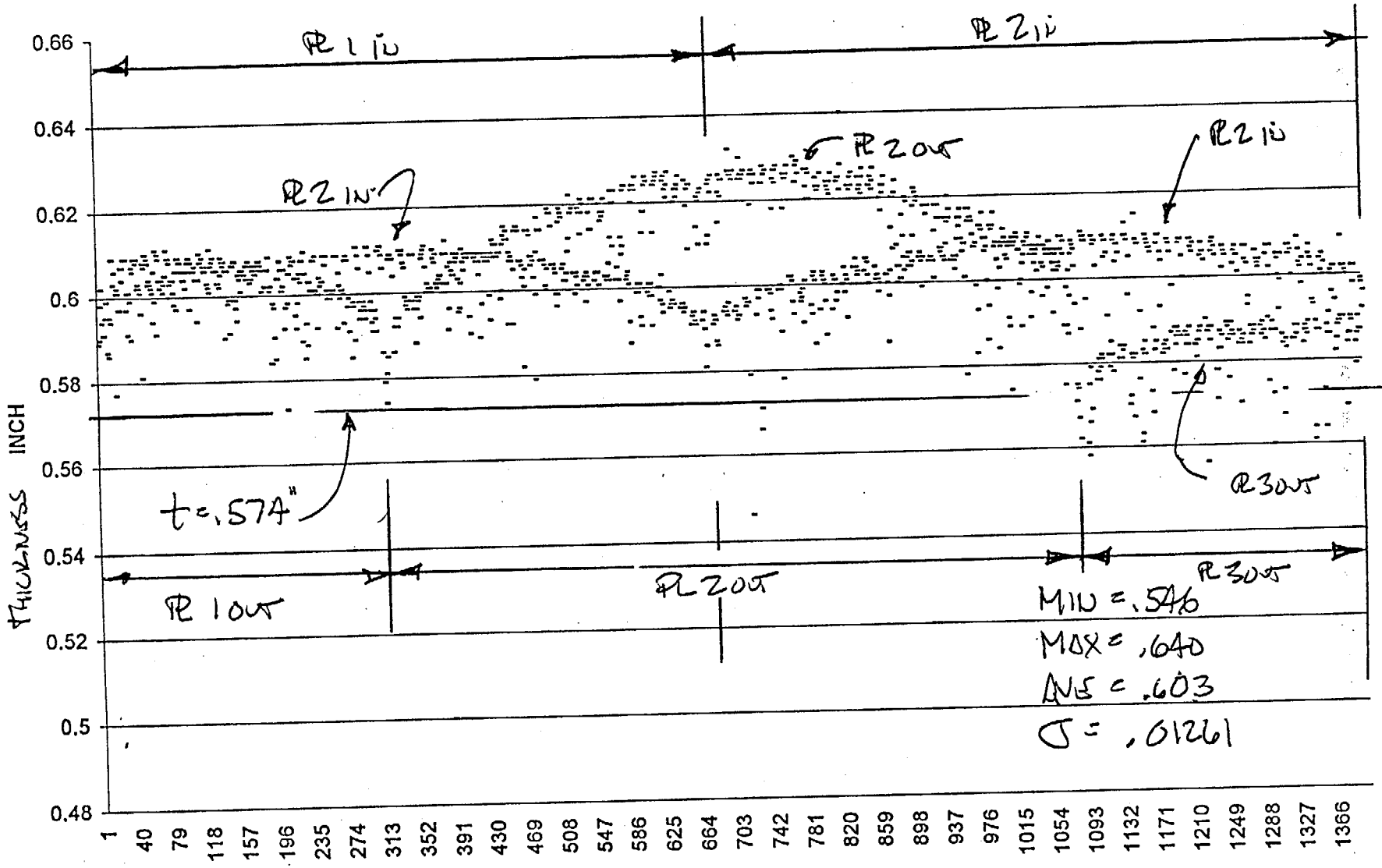
PLAN VIEW BOTTOM SECTION

REF: C.B. & I. DWG.'S 6202-200 & 6202-201

BAY 8 BOTTOM STRIP THICKNESS (BEFORE SANDBLASTING.)



BAY 8 BOTTOM STRIP THICKNESS (BEFORE SANDBLASTING.)



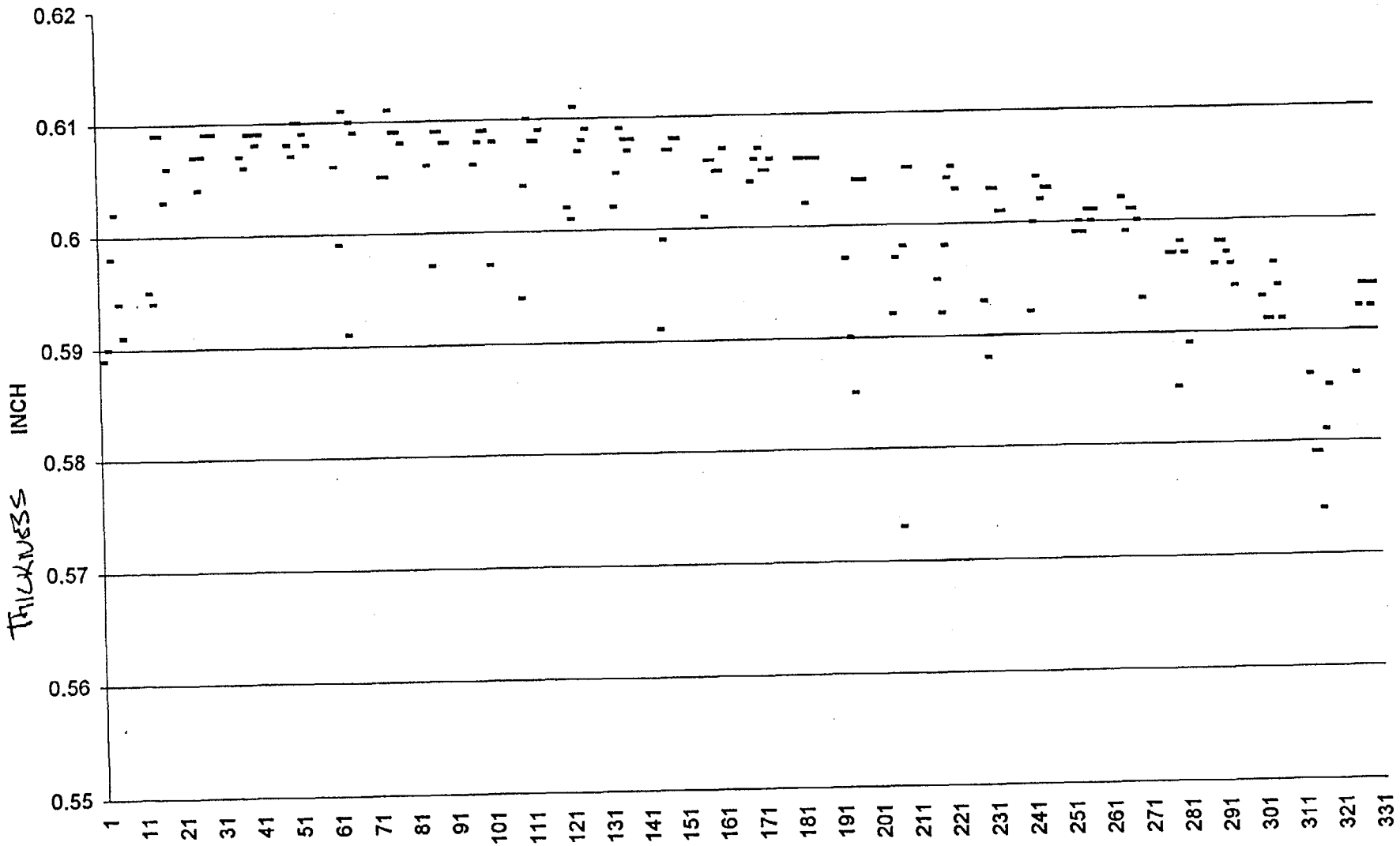
1998 TOWS IWE
APPENDIX B

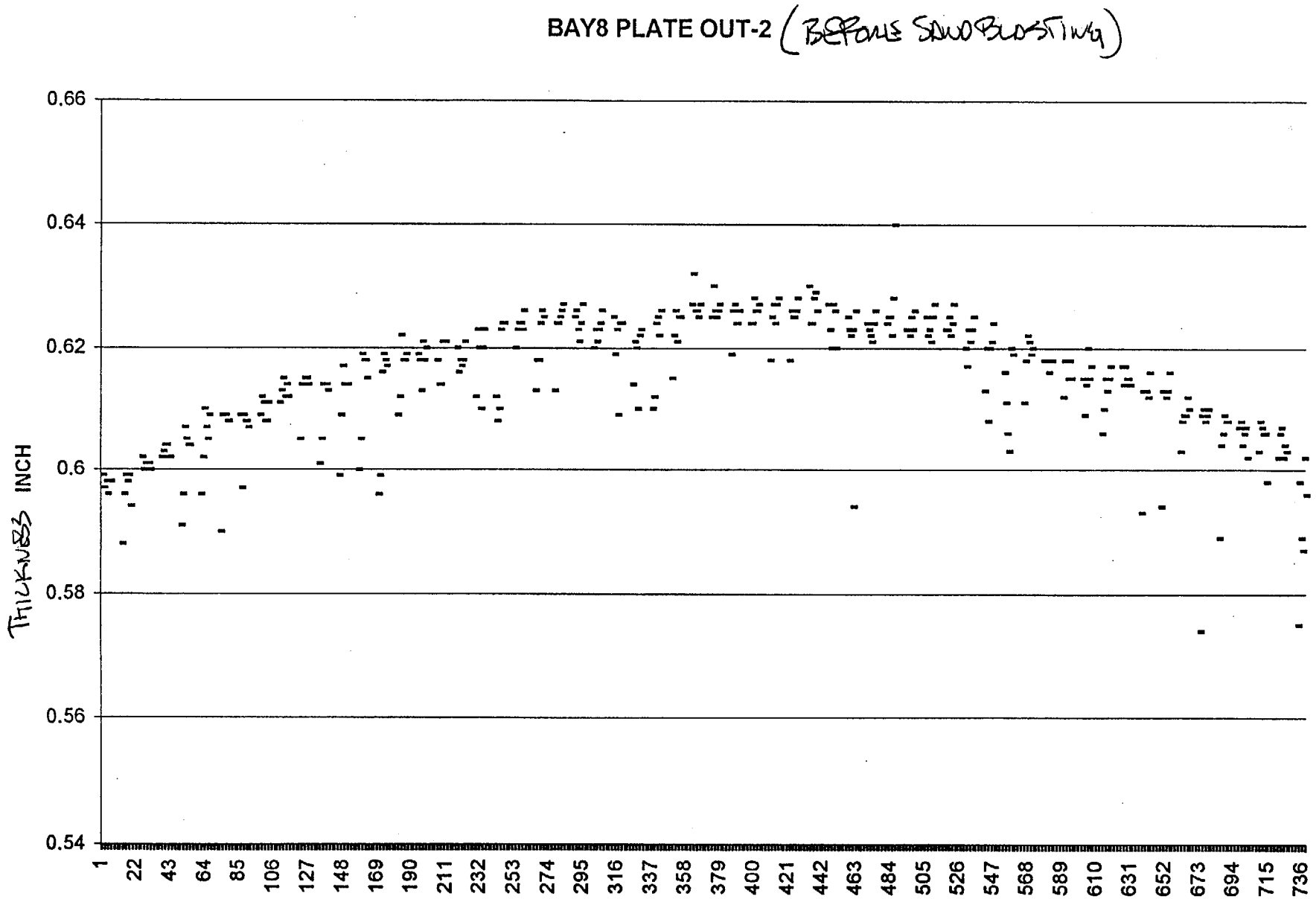
BAY 8 BOTTOM STRIP	OUT-1	OUT-2	OUT-3	IN-1	IN-2
MAXIMUM	0.611	0.640	0.599	0.612	0.615
MINIMUM	0.573	0.574	0.556	0.577	0.546
AVERAGE	0.601	0.615	0.582	0.602	0.602
STANDARD DEV.	0.00785	0.00998	0.00792	0.00662	0.00803
STD DEV / AVERAGE %	1.31	1.62	1.36	1.10	1.34
AVE-1(STDDEV)	0.593	0.605	0.574	0.595	0.594
AVE-2(STDDEV)	0.585	0.595	0.566	0.589	0.586

INSTRUMENT ACCURACY +/- .004"

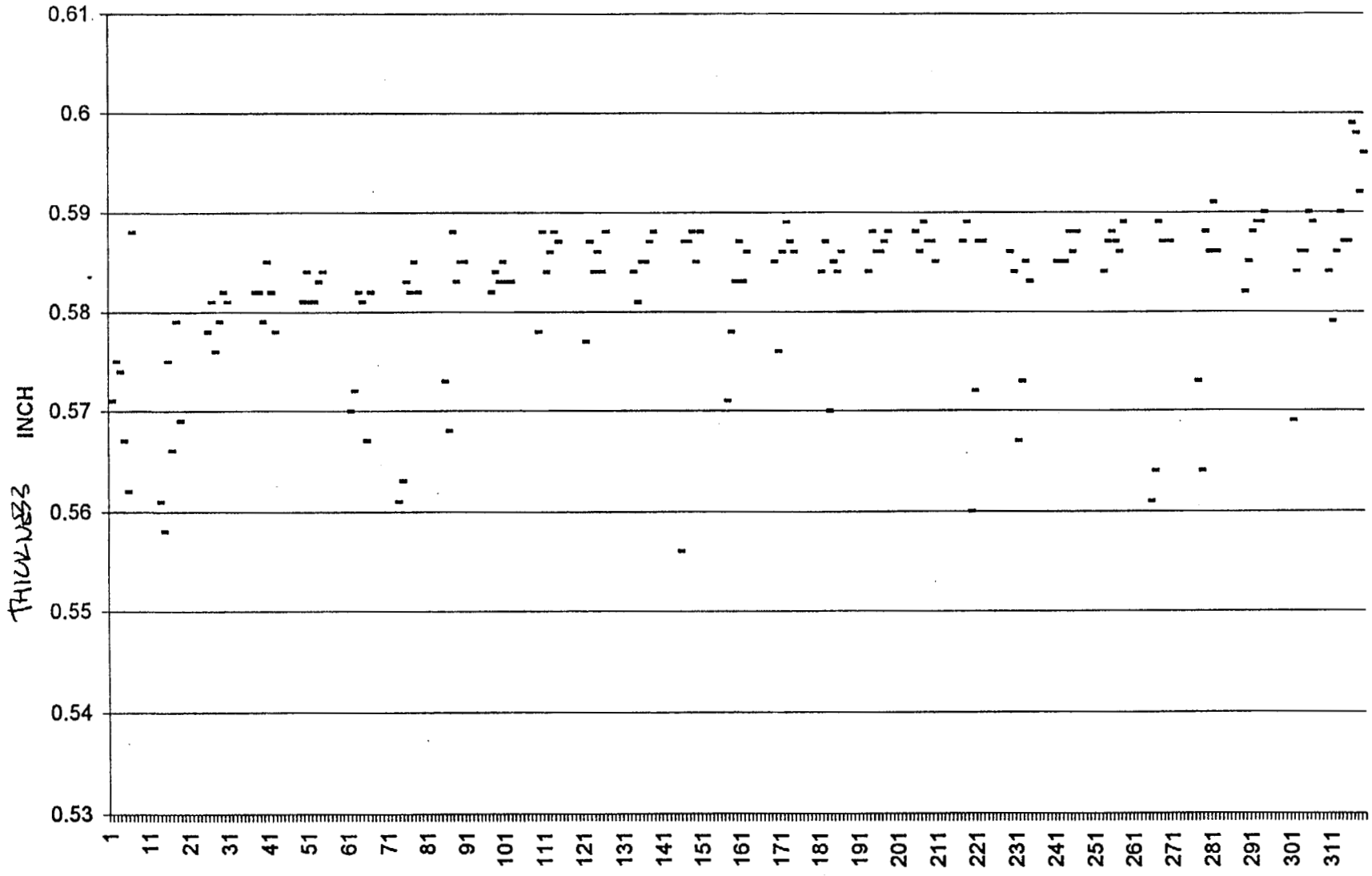
(BEFORE SAND BLASTING)

BAY8 PLATE OUT-1 (BEFORE SAND BLASTING)

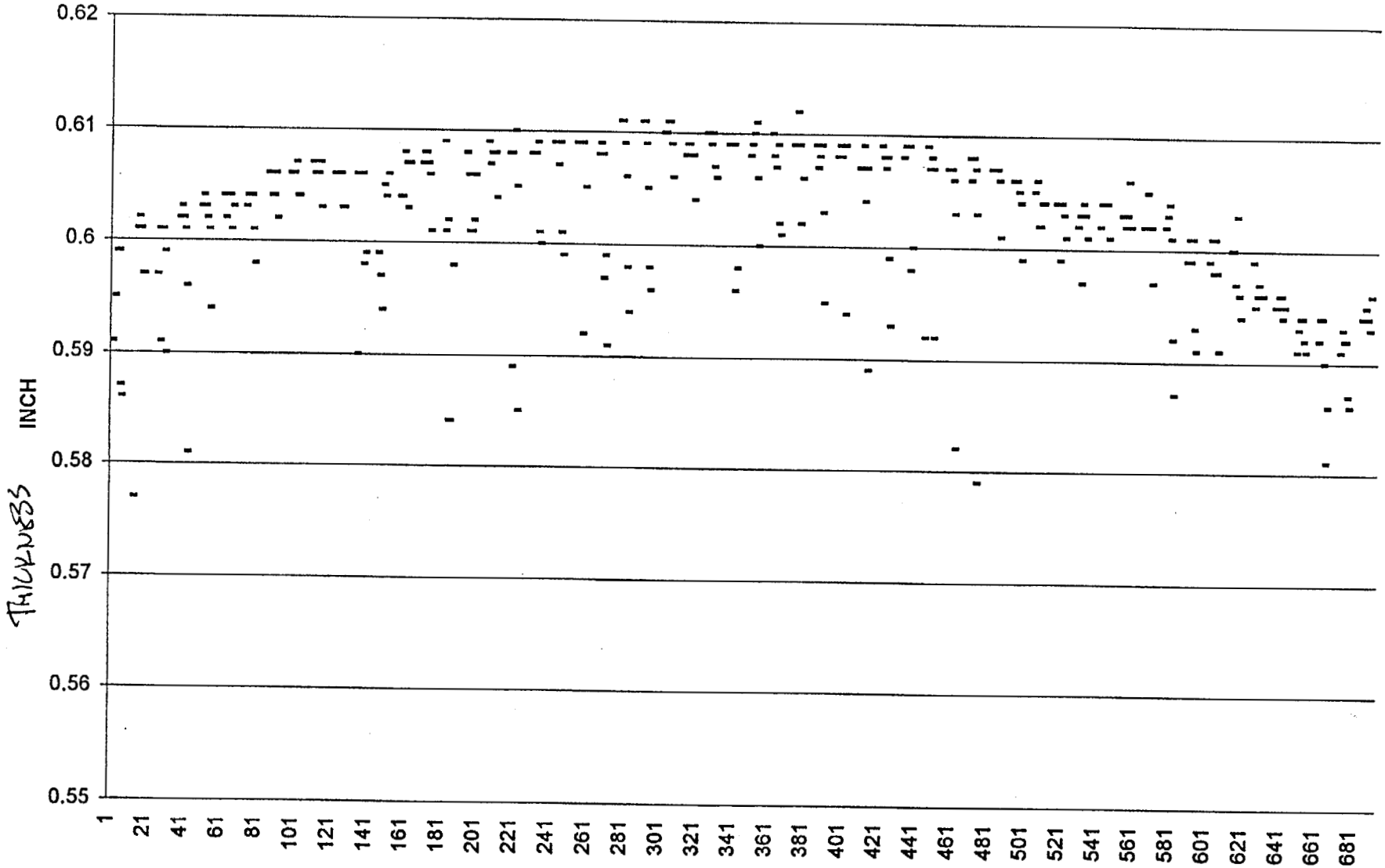



BAY8 PLATE OUT-2 (BEFORE SANDBLASTING)
THICKNESS INCH
0.66
0.64
0.62
0.6
0.58
0.56
0.54
1
22
43
64
85
106
127
148
169
190
211
232
253
274
295
316
337
358
379
400
421
442
463
484
505
526
547
568
589
610
631
652
673
694
715
736

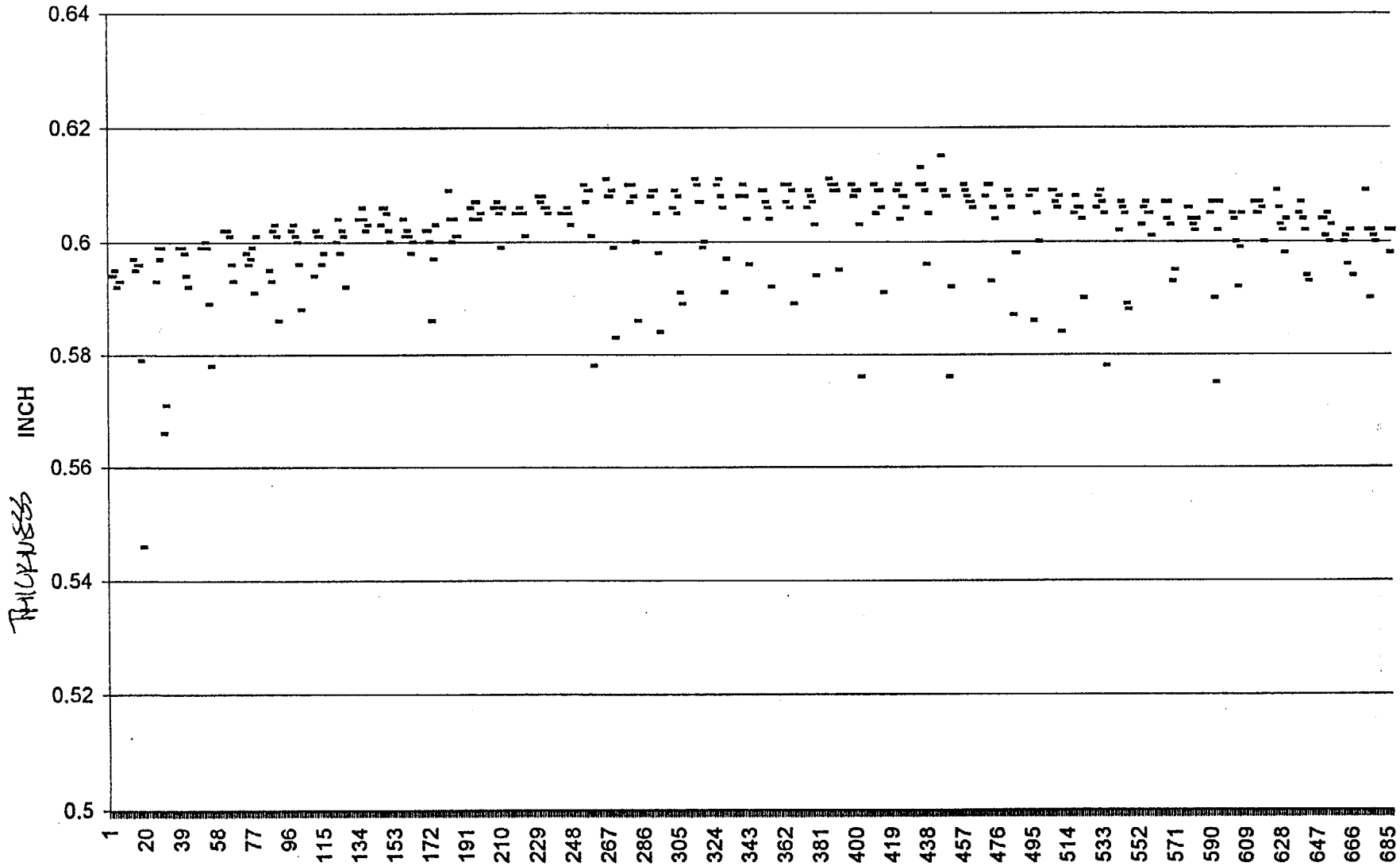
BAY 8 PLATE OUT-3 (BEFORE SOND BLASTING)



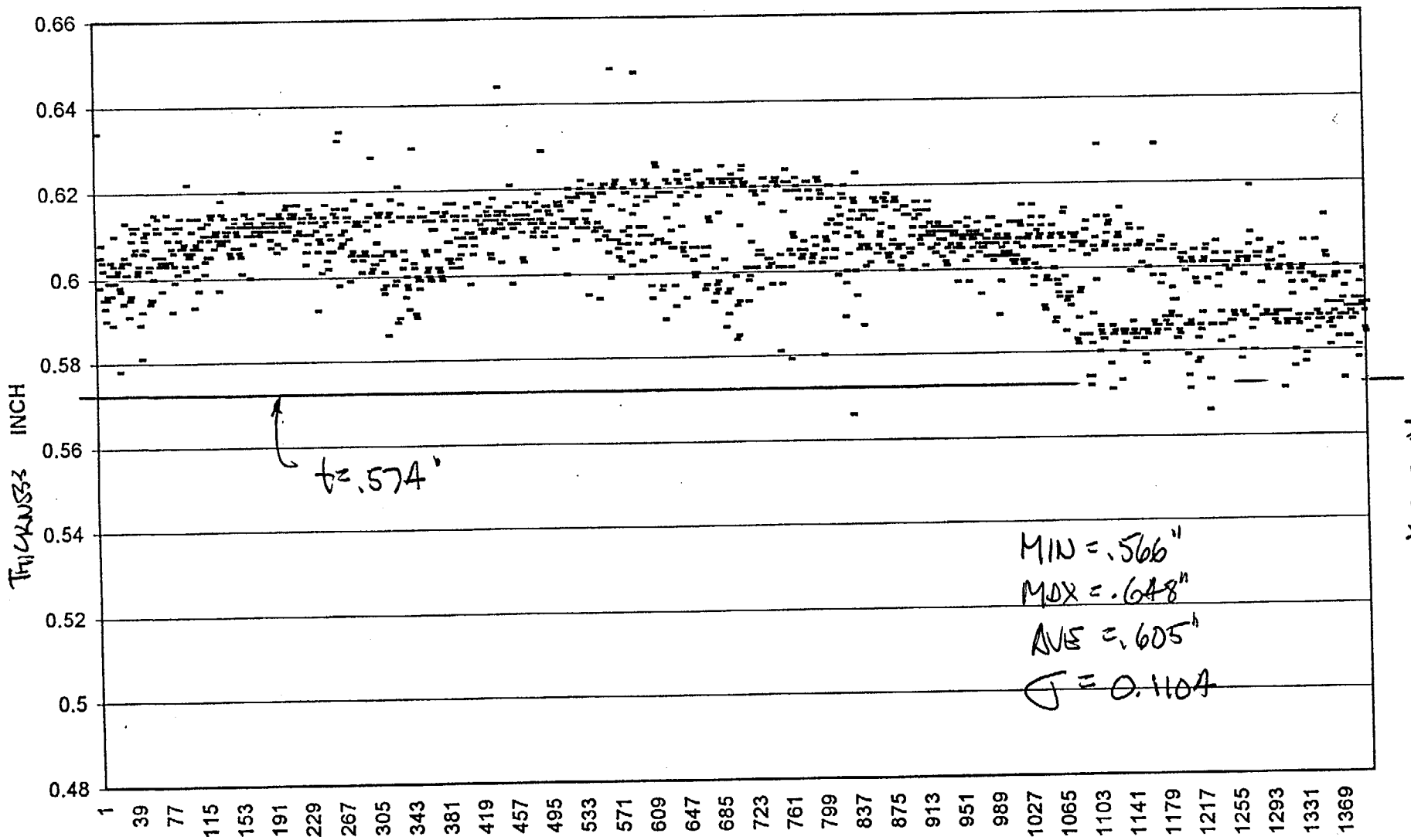
BAY 8 PLATE IN-1 (BEFORE SANDBLASTING)

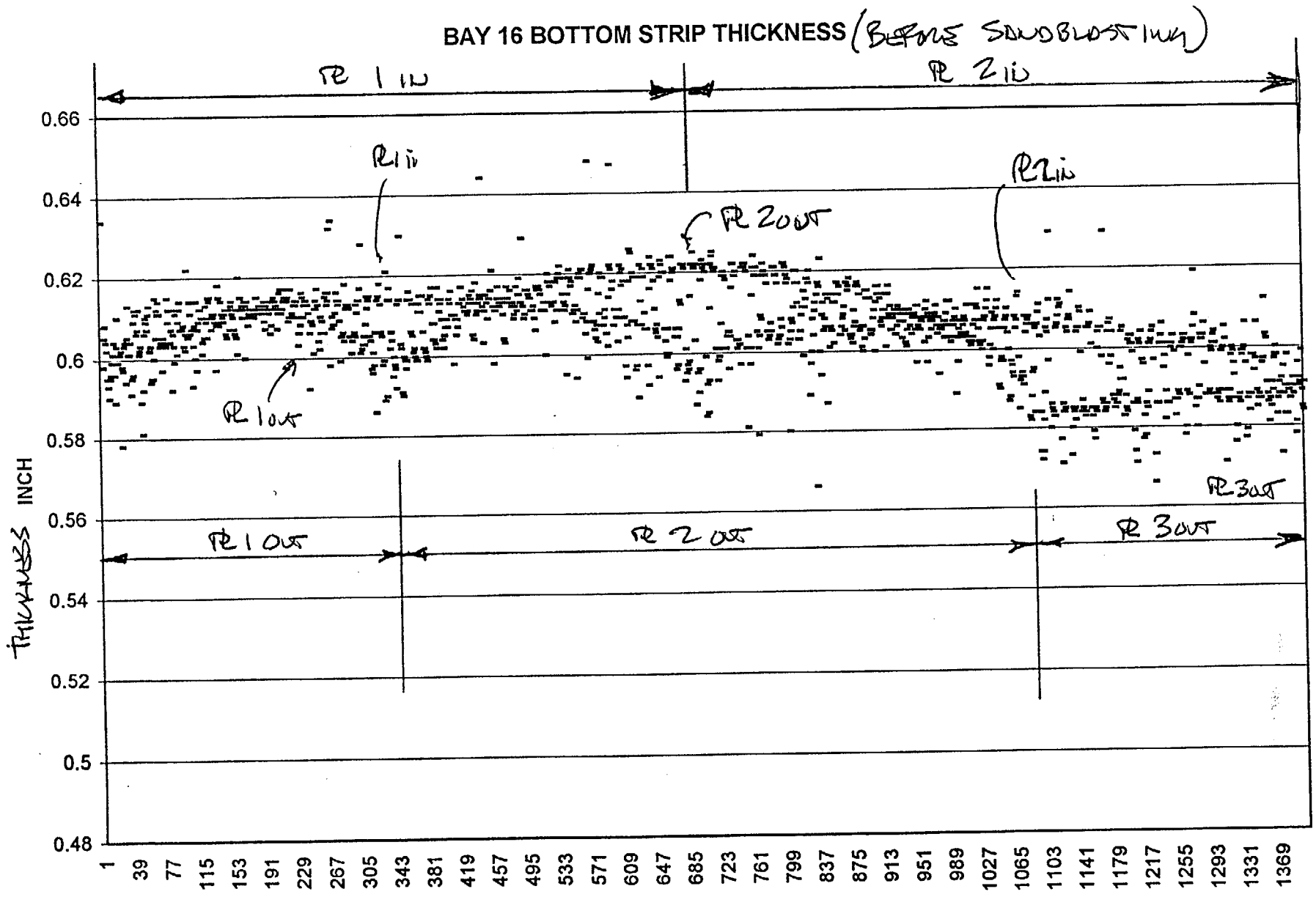


BAY 8 PLATE IN-2 (BEFORE SANDBLASTING)



BAY 16 BOTTOM STRIP THICKNESS (BEFORE SANDBLASTING)



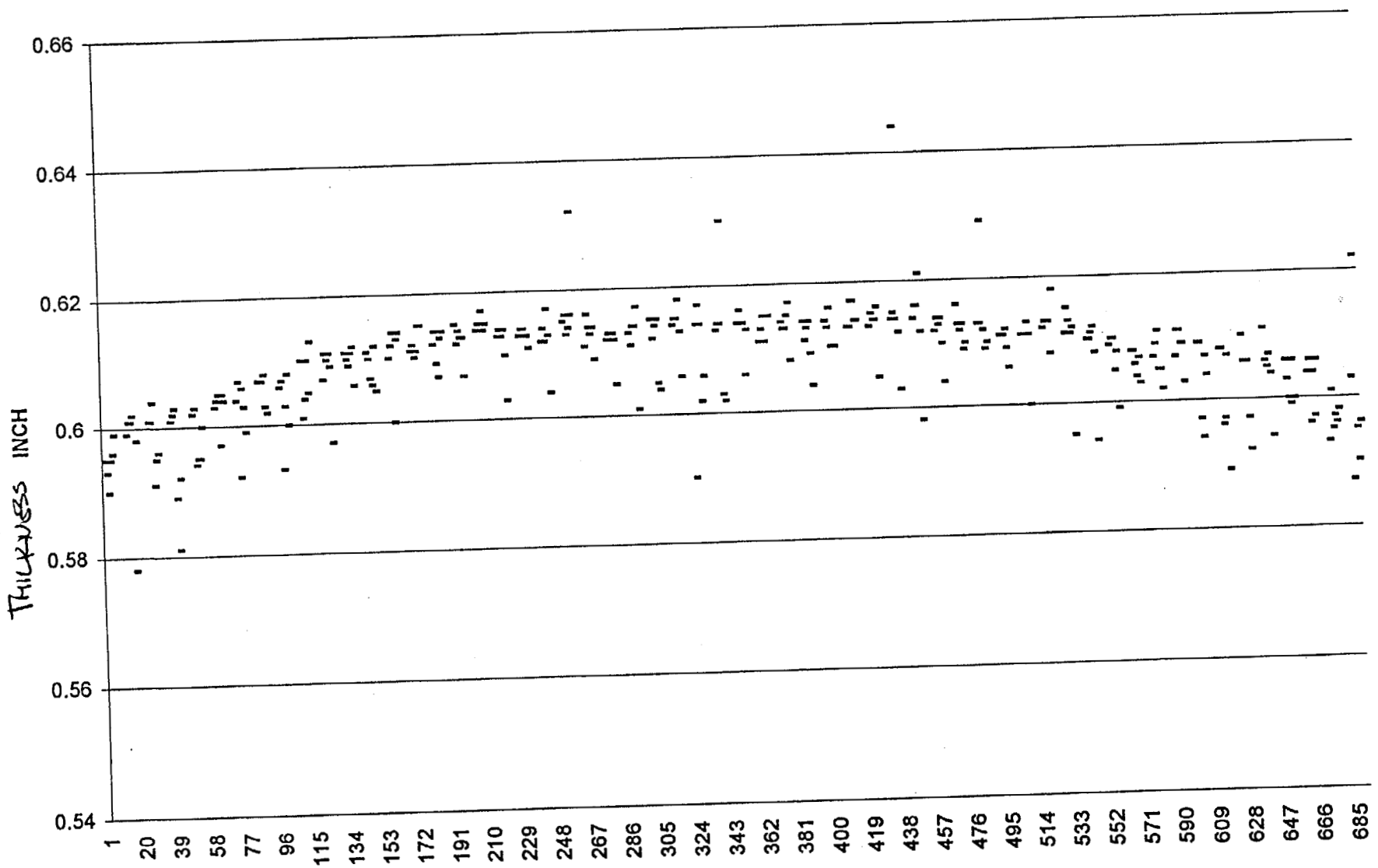

BAY 16 BOTTOM STRIP THICKNESS (BEFORE SANDBLASTING)
PR 1 IN
PR 2 IN
PR 1 IN
PR 2 IN
PR 2 OUT
PR 1 OUT
PR 3 OUT
PR 1 OUT
PR 2 OUT
PR 3 OUT
THICKNESS INCH
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48
1
39
77
115
153
191
229
267
305
343
381
419
457
495
533
571
609
647
685
723
761
799
837
875
913
951
989
1027
1065
1103
1141
1179
1217
1255
1293
1331
1369

BAY 16 BOTTOM STRIP	OUT-1	OUT-2	OUT-3	IN-1	IN-2
MAXIMUM	0.634	0.648	0.629	0.644	0.629
MINIMUM	0.589	0.566	0.566	0.578	0.573
AVERAGE	0.609	0.612	0.585	0.608	0.603
STANDARD DEV.	0.00622	0.00957	0.00623	0.00763	0.00657
STD DEV / AVERAGE %	1.02	1.56	1.06	1.25	1.09
AVE-1(STDDEV)	0.603	0.602	0.579	0.600	0.597
AVE-2(STDDEV)	0.597	0.592	0.573	0.593	0.590

INSTRUMENT ACCURACY +/- .004"

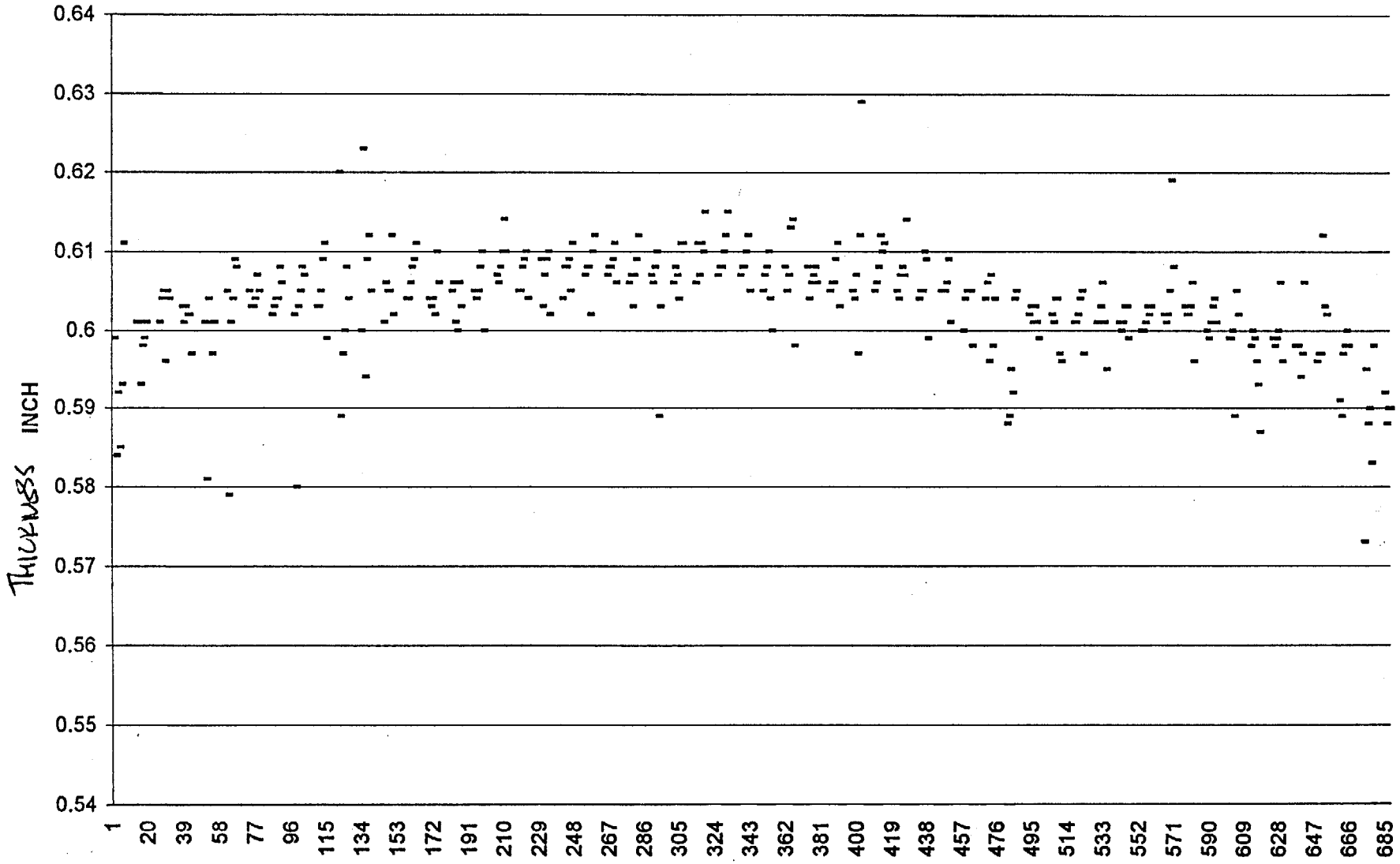
APPENDIX B 1998 TORUS IWE

BAY 16 PLATE IN1 BEFORE SAND BLASTING



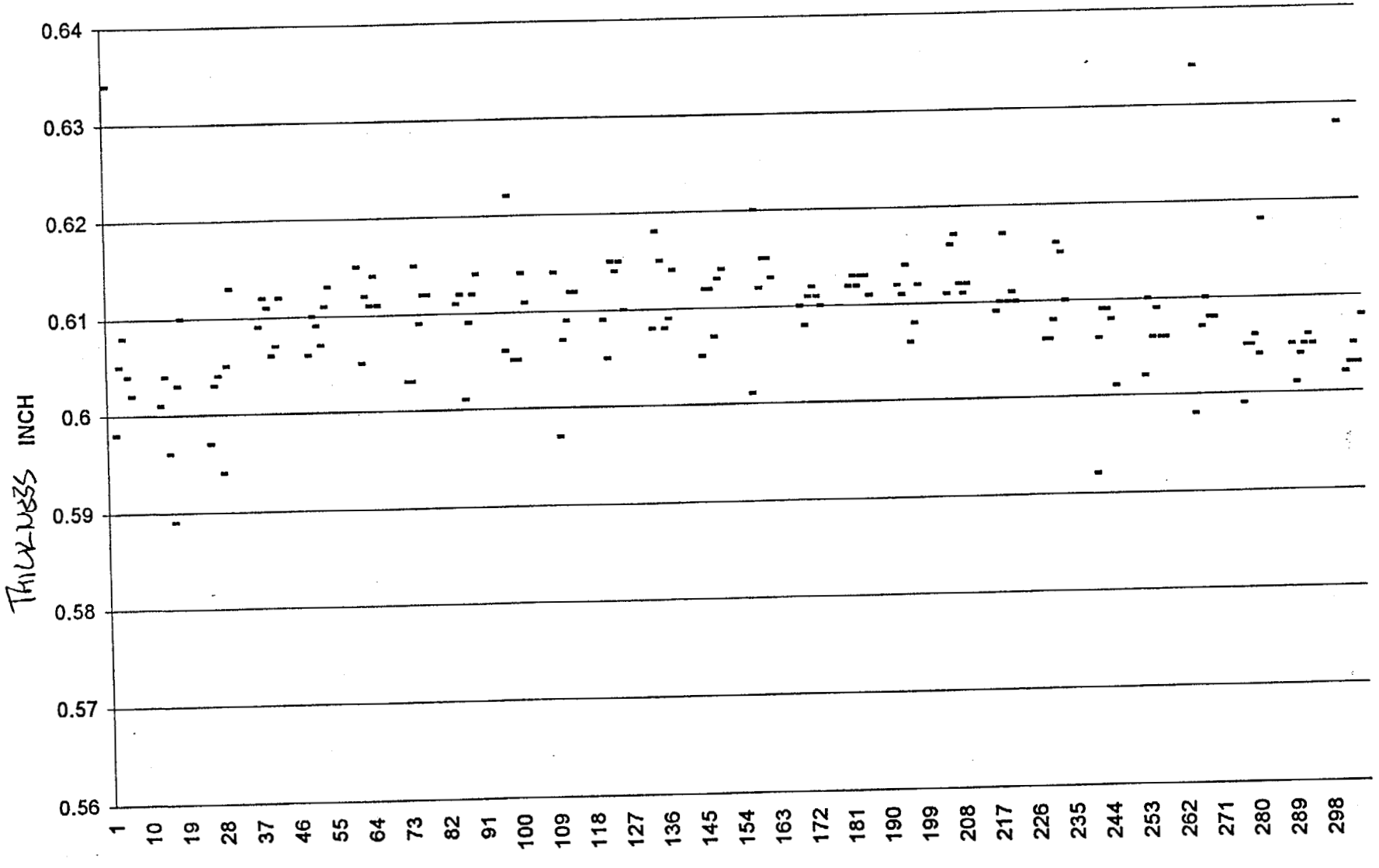
PG B.14

BAY 16 IN2 BEFORE SANDBLASTING



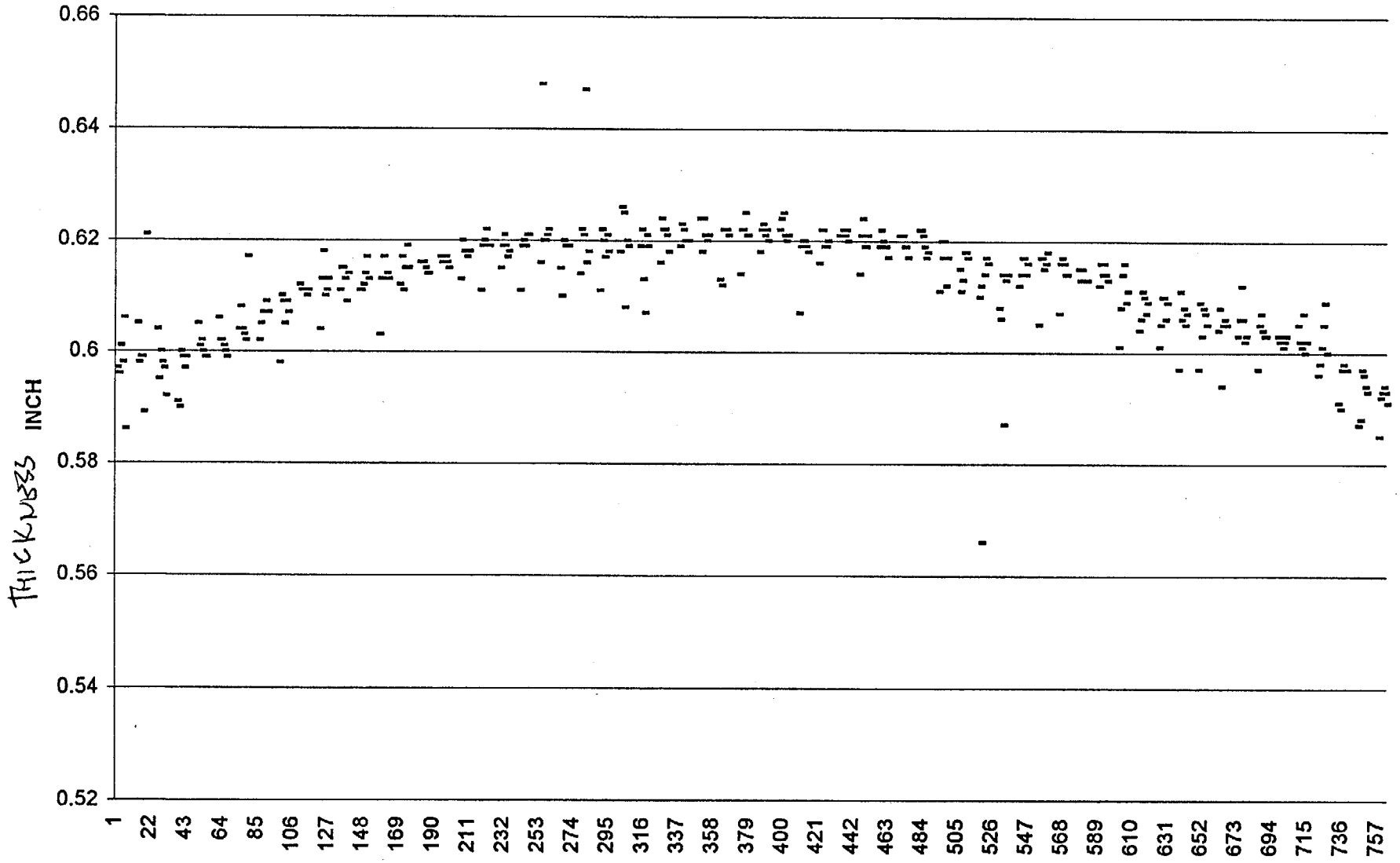
APPENDIX B 1998 TORUS INE

BAY 16 PLATE OUT-1 BEFORE SANDBLASTING



APPENDIX B 1998 TOWS INSE

BAY 16 PLATE OUT 2 BEFORE SANDBLASTING



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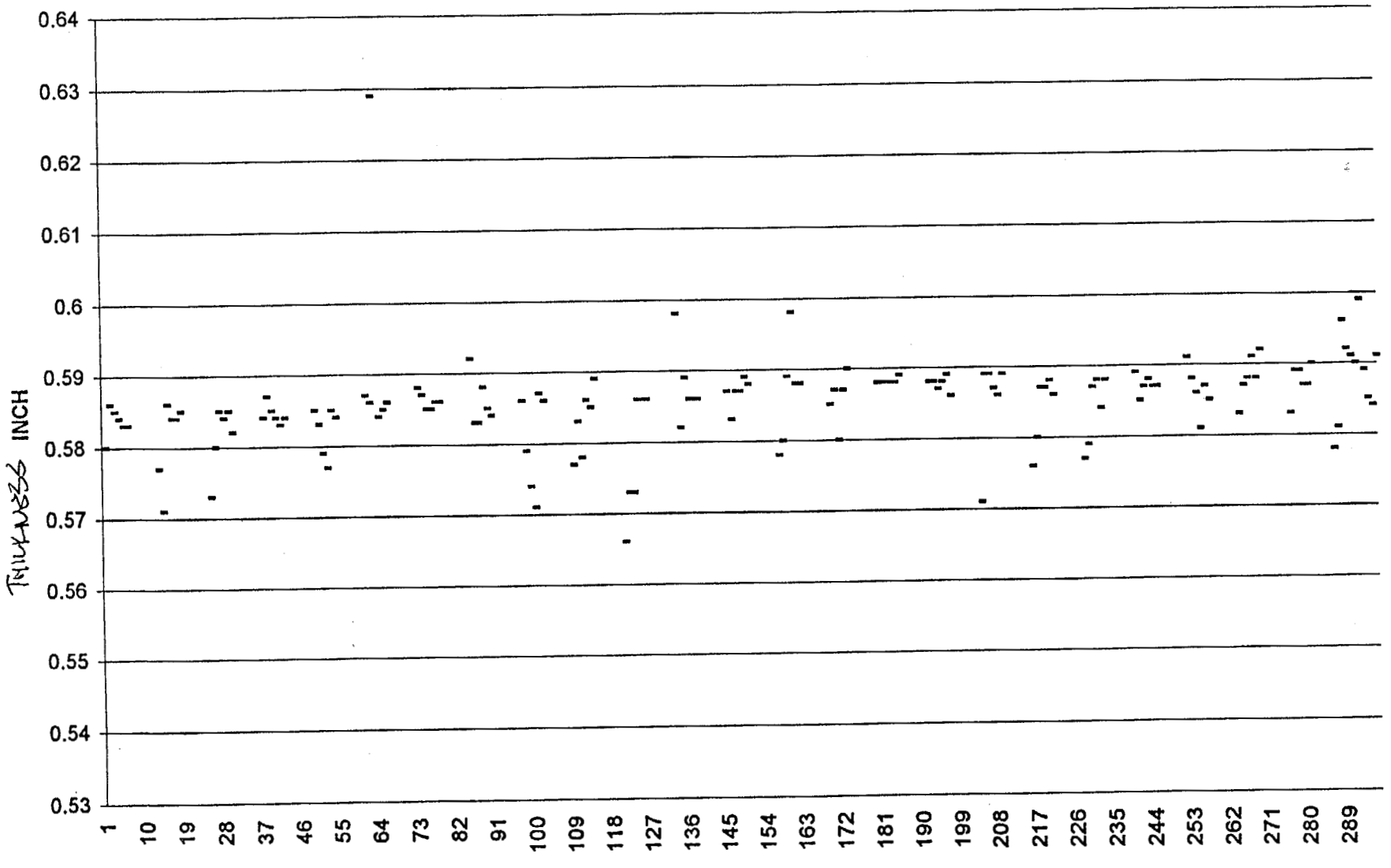
BAY 16 PLATE OUT3 BEFORE SANDBLASTING



1998 IWE Torus Inspection Report
Appendix C: Evaluation of Permenant Grid Locations

~ 9-10% local

Location Identifier	UT Measured Thickness (inch) Note 1	Acceptance Criteria (inch) Note 2	Margin (inch) Note 3	Margin (percent) Note 4	Ave. Thickness Circumferential Stress (inch) Note 5
BAY1-A01	0.601	0.570	0.031	5.44	
BAY1-A02	0.615	0.570	0.045	7.89	
BAY1-A03	0.614	0.570	0.044	7.72	
BAY1-A04	0.593	0.570	0.023	4.04	0.606
BAY1-A05	0.595	0.574	0.021	3.66	
BAY1-A06	0.604	0.574	0.030	5.23	
BAY1-A07	0.607	0.574	0.033	5.75	
BAY1-A08	0.602	0.574	0.028	4.88	0.602
BAY1-A09	0.591	0.574	0.017	2.96	
BAY1-A10	0.594	0.574	0.020	3.48	
BAY1-A11	0.595	0.574	0.021	3.66	
BAY1-A12	0.597	0.574	0.023	4.01	0.594
BAY1-A13	0.597	0.570	0.027	4.74	
BAY1-A14	0.598	0.570	0.028	4.91	
BAY1-A15	0.590	0.570	0.020	3.51	
BAY1-A16	0.594	0.570	0.024	4.21	0.595
BAY2-A01	0.577	0.570	0.007	1.23	
BAY2-A02	0.622	0.570	0.052	9.12	
BAY2-A03	0.623	0.570	0.053	9.30	
BAY2-A04	0.595	0.570	0.025	4.39	0.604
BAY2-A05	0.583	0.574	0.009	1.57	
BAY2-A06	0.625	0.574	0.051	8.89	
BAY2-A07	0.627	0.574	0.053	9.23	
BAY2-A08	0.594	0.574	0.020	3.48	0.607
BAY2-A09	0.610	0.574	0.036	6.27	
BAY2-A10	0.611	0.574	0.037	6.45	
BAY2-A11	0.596	0.574	0.022	3.83	
BAY2-A12	0.599	0.574	0.025	4.36	0.604
BAY2-A13	0.614	0.570	0.044	7.72	
BAY2-A14	0.613	0.570	0.043	7.54	
BAY2-A15	0.594	0.570	0.024	4.21	
BAY2-A16	0.597	0.570	0.027	4.74	0.605
BAY2-A17	0.575	0.566	0.009	1.59	
BAY2 A18	0.577	0.559	0.018	3.22	

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Appendix C: Evaluation of Permenant Grid Locations

Location Identifier	UT Measured Thickness (inch) Note 1	Acceptance Criteria (inch) Note 2	Margin (inch) Note 3	Margin (percent) Note 4	Ave. Thickness Circumferential Stress (inch) Note 5
BAY3-A01	0.594	0.570	0.024	4.21	
BAY3-A02	0.616	0.570	0.046	8.07	
BAY3-A03	0.613	0.570	0.043	7.54	
BAY3-A04	0.604	0.570	0.034	5.96	0.607
BAY3-A05	0.600	0.574	0.026	4.53	
BAY3-A06	0.625	0.574	0.051	8.89	
BAY3-A07	0.621	0.574	0.047	8.19	
BAY3-A08	0.608	0.574	0.034	5.92	0.614
BAY3-A09	0.612	0.574	0.038	6.62	
BAY3-A10	0.618	0.574	0.044	7.67	
BAY3-A11	0.600	0.574	0.026	4.53	
BAY3-A12	0.604	0.574	0.030	5.23	0.609
BAY3-A13	0.608	0.570	0.038	6.67	
BAY3-A14	0.614	0.570	0.044	7.72	
BAY3-A15	0.600	0.570	0.030	5.26	
BAY3-A16	0.599	0.570	0.029	5.09	0.605
BAY4-A01	0.601	0.570	0.031	5.44	
BAY4-A02	0.631	0.570	0.061	10.70	
BAY4-A03	0.634	0.570	0.064	11.23	
BAY4-A04	0.603	0.570	0.033	5.79	0.617
BAY4-A05	0.607	0.574	0.033	5.75	
BAY4-A06	0.630	0.574	0.056	9.76	
BAY4-A07	0.636	0.574	0.062	10.80	
BAY4-A08	0.601	0.574	0.027	4.70	0.619
BAY4-A09	0.606	0.574	0.032	5.57	
BAY4-A10	0.609	0.574	0.035	6.10	
BAY4-A11	0.574	0.574	0.000	0.00	
BAY4-A12	0.573	0.574	-0.001	-0.17	0.591
BAY4-A13	0.610	0.570	0.040	7.02	
BAY4-A14	0.613	0.570	0.043	7.54	
BAY4-A15	0.576	0.570	0.006	1.05	
BAY4-A16	0.576	0.570	0.006	1.05	0.594
BAY4-A17	0.576	0.566	0.010	1.77	
BAY4-A18	0.581	0.559	0.022	3.94	

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Location Identifier	UT Measured Thickness (inch) Note 1	Acceptance Criteria (inch) Note 2	Margin (inch) Note 3	Margin (percent) Note 4	Ave. Thickness Circumferential Stress (inch) Note 5
BAY5-A01	0.594	0.570	0.024	4.21	
BAY5-A02	0.629	0.570	0.059	10.35	
BAY5-A03	0.634	0.570	0.064	11.23	
BAY5-A04	0.592	0.570	0.022	3.86	0.612
BAY5-A05	0.592	0.574	0.018	3.14	
BAY5-A06	0.631	0.574	0.057	9.93	
BAY5-A07	0.632	0.574	0.058	10.10	
BAY5-A08	0.588	0.574	0.014	2.44	0.611
BAY5-A09	0.596	0.574	0.022	3.83	
BAY5-A10	0.597	0.574	0.023	4.01	
BAY5-A11	0.599	0.574	0.025	4.36	
BAY5-A12	0.597	0.574	0.023	4.01	0.597
BAY5-A13	0.595	0.570	0.025	4.39	
BAY5-A14	0.597	0.570	0.027	4.74	
BAY5-A15	0.596	0.570	0.026	4.56	
BAY5-A16	0.596	0.570	0.026	4.56	0.596
BAY6-A01	0.588	0.570	0.018	3.16	
BAY6-A02	0.612	0.570	0.042	7.37	
BAY6-A03	0.611	0.570	0.041	7.19	
BAY6-A04	0.594	0.570	0.024	4.21	0.601
BAY6-A05	0.584	0.574	0.010	1.74	
BAY6-A06	0.617	0.574	0.043	7.49	
BAY6-A07	0.617	0.574	0.043	7.49	
BAY6-A08	0.594	0.574	0.020	3.48	0.603
BAY6-A09	0.607	0.574	0.033	5.75	
BAY6-A10	0.604	0.574	0.030	5.23	
BAY6-A11	0.611	0.574	0.037	6.45	
BAY6-A12	0.608	0.574	0.034	5.92	0.608
BAY6-A13	0.601	0.570	0.031	5.44	
BAY6-A14	0.600	0.570	0.030	5.26	
BAY6-A15	0.617	0.570	0.047	8.25	
BAY6-A16	0.613	0.570	0.043	7.54	0.608

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Appendix C: Evaluation of Permenant Grid Locations

Location Identifier	UT Measured Thickness (inch) Note 1	Acceptance Criteria (inch) Note 2	Margin (inch) Note 3	Margin (percent) Note 4	Ave. Thickness Circumferential Stress (inch) Note 5
BAY7-A01	0.578	0.570	0.008	1.40	
BAY7-A02	0.622	0.570	0.052	9.12	
BAY7-A03	0.627	0.570	0.057	10.00	
BAY7-A04	0.596	0.570	0.026	4.56	0.606
BAY7-A05	0.577	0.574	0.003	0.52	
BAY7-A06	0.619	0.574	0.045	7.84	
BAY7-A07	0.624	0.574	0.050	8.71	
BAY7-A08	0.599	0.574	0.025	4.36	0.605
BAY7-A09	0.600	0.574	0.026	4.53	
BAY7-A10	0.600	0.574	0.026	4.53	
BAY7-A11	0.592	0.574	0.018	3.14	
BAY7-A12	0.591	0.574	0.017	2.96	0.596
BAY7-A13	0.598	0.570	0.028	4.91	
BAY7-A14	0.592	0.570	0.022	3.86	
BAY7-A15	0.596	0.570	0.026	4.56	
BAY7-A16	0.597	0.570	0.027	4.74	0.596
BAY7-A17	0.581	0.566	0.015	2.65	
BAY7-A18	0.581	0.559	0.022	3.94	
BAY8-A01	0.583	0.570	0.013	2.28	
BAY8-A02	0.615	0.570	0.045	7.89	
BAY8-A03	0.614	0.570	0.044	7.72	
BAY8-A04	0.606	0.570	0.036	6.32	0.605
BAY8-A05	0.586	0.574	0.012	2.09	
BAY8-A06	0.609	0.574	0.035	6.10	
BAY8-A07	0.613	0.574	0.039	6.79	
BAY8-A08	0.607	0.574	0.033	5.75	0.604
BAY8-A09	0.608	0.574	0.034	5.92	
BAY8-A10	0.607	0.574	0.033	5.75	
BAY8-A11	0.605	0.574	0.031	5.40	
BAY8-A12	0.598	0.574	0.024	4.18	0.605
BAY8-A13	0.608	0.570	0.038	6.67	
BAY8-A14	0.607	0.570	0.037	6.49	
BAY8-A15	0.601	0.570	0.031	5.44	
BAY8-A16	0.603	0.570	0.033	5.79	0.605

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Permenant Grid Locations

Location Identifier	UT Measured Thickness (inch) Note 1	Acceptance Criteria (inch) Note 2	Margin (inch) Note 3	Margin (percent) Note 4	Ave. Thickness Circumferential Stress (inch) Note 5
BAY9-A01	0.594	0.570	0.024	4.21	
BAY9-A02	0.610	0.570	0.040	7.02	
BAY9-A03	0.609	0.570	0.039	6.84	
BAY9-A04	0.599	0.570	0.029	5.09	0.603
BAY9-A05	0.590	0.574	0.016	2.79	
BAY9-A06	0.606	0.574	0.032	5.57	
BAY9-A07	0.601	0.574	0.027	4.70	
BAY9-A08	0.596	0.574	0.022	3.83	0.598
BAY9-A09	0.599	0.574	0.025	4.36	
BAY9-A10	0.600	0.574	0.026	4.53	
BAY9-A11	0.582	0.574	0.008	1.39	
BAY9-A12	0.593	0.574	0.019	3.31	0.594
BAY9-A13	0.601	0.570	0.031	5.44	
BAY9-A14	0.601	0.570	0.031	5.44	
BAY9-A15	0.593	0.570	0.023	4.04	
BAY9-A16	0.591	0.570	0.021	3.68	0.597
BAY10-A01	0.585	0.570	0.015	2.63	
BAY10-A02	0.629	0.570	0.059	10.35	
BAY10-A03	0.631	0.570	0.061	10.70	
BAY10-A04	0.584	0.570	0.014	2.46	0.607
BAY10-A05	0.586	0.574	0.012	2.09	
BAY10-A06	0.628	0.574	0.054	9.41	
BAY10-A07	0.629	0.574	0.055	9.58	
BAY10-A08	0.583	0.574	0.009	1.57	0.607
BAY10-A09	0.598	0.574	0.024	4.18	
BAY10-A10	0.597	0.574	0.023	4.01	
BAY10-A11	0.598	0.574	0.024	4.18	
BAY10-A12	0.596	0.574	0.022	3.83	0.597
BAY10-A13	0.593	0.570	0.023	4.04	
BAY10-A14	0.592	0.570	0.022	3.86	
BAY10-A15	0.594	0.570	0.024	4.21	
BAY10-A16	0.595	0.570	0.025	4.39	0.594
BAY10-A17	0.588	0.566	0.022	3.89	
BAY10-A18	0.589	0.559	0.030	5.37	

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Appendix C: Evaluation of Permenant Grid Locations

Location Identifier	UT Measured Thickness (inch) Note 1	Acceptance Criteria (inch) Note 2	Margin (inch) Note 3	Margin (percent) Note 4	Ave. Thickness Circumferential Stress (inch) Note 5
BAY11-A01	0.586	0.570	0.016	2.81	
BAY11-A02	0.618	0.570	0.048	8.42	
BAY11-A03	0.617	0.570	0.047	8.25	
BAY11-A04	0.594	0.570	0.024	4.21	0.604
BAY11-A05	0.588	0.574	0.014	2.44	
BAY11-A06	0.621	0.574	0.047	8.19	
BAY11-A07	0.618	0.574	0.044	7.67	
BAY11-A08	0.592	0.574	0.018	3.14	0.605
BAY11-A09	0.585	0.574	0.011	1.92	
BAY11-A10	0.586	0.574	0.012	2.09	
BAY11-A11	0.602	0.574	0.028	4.88	
BAY11-A12	0.601	0.574	0.027	4.70	0.594
BAY11-A13	0.587	0.570	0.017	2.98	
BAY11-A14	0.589	0.570	0.019	3.33	
BAY11-A15	0.598	0.570	0.028	4.91	
BAY11-A16	0.598	0.570	0.028	4.91	0.593
BAY12-A01	0.609	0.570	0.039	6.84	
BAY12-A02	0.642	0.570	0.072	12.63	
BAY12-A03	0.640	0.570	0.070	12.28	
BAY12-A04	0.593	0.570	0.023	4.04	0.621
BAY12-A05	0.610	0.574	0.036	6.27	
BAY12-A06	0.636	0.574	0.062	10.80	
BAY12-A07	0.633	0.574	0.059	10.28	
BAY12-A08	0.588	0.574	0.014	2.44	0.617
BAY12-A09	0.594	0.574	0.020	3.48	
BAY12-A10	0.596	0.574	0.022	3.83	
BAY12-A11	0.618	0.574	0.044	7.67	
BAY12-A12	0.610	0.574	0.036	6.27	0.605
BAY12-A13	0.595	0.570	0.025	4.39	
BAY12-A14	0.596	0.570	0.026	4.56	
BAY12-A15	0.612	0.570	0.042	7.37	
BAY12-A16	0.607	0.570	0.037	6.49	0.603

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Appendix C: Evaluation of Permenant Grid Locations

Location Identifier	UT Measured Thickness (inch) Note 1	Acceptance Criteria (inch) Note 2	Margin (inch) Note 3	Margin (percent) Note 4	Ave. Thickness Circumferential Stress (inch) Note 5
BAY13-A01	0.595	0.570	0.025	4.39	
BAY13-A02	0.632	0.570	0.062	10.88	
BAY13-A03	0.633	0.570	0.063	11.05	
BAY13-A04	0.601	0.570	0.031	5.44	0.615
BAY13-A05	0.597	0.574	0.023	4.01	
BAY13-A06	0.639	0.574	0.065	11.32	
BAY13-A07	0.641	0.574	0.067	11.67	
BAY13-A08	0.603	0.574	0.029	5.05	0.620
BAY13-A09	0.599	0.574	0.025	4.36	
BAY13-A10	0.595	0.574	0.021	3.66	
BAY13-A11	0.585	0.574	0.011	1.92	
BAY13-A12	0.585	0.574	0.011	1.92	0.591
BAY13-A13	0.599	0.570	0.029	5.09	
BAY13-A14	0.596	0.570	0.026	4.56	
BAY13-A15	0.586	0.570	0.016	2.81	
BAY13-A16	0.585	0.570	0.015	2.63	0.592
BAY14-A01	0.591	0.570	0.021	3.68	
BAY14-A02	0.626	0.570	0.056	9.82	
BAY14-A03	0.625	0.570	0.055	9.65	
BAY14-A04	0.590	0.570	0.020	3.51	0.608
BAY14-A05	0.573	0.574	-0.001	-0.17	
BAY14-A06	0.613	0.574	0.039	6.79	
BAY14-A07	0.614	0.574	0.040	6.97	
BAY14-A08	0.596	0.574	0.022	3.83	0.599
BAY14-A09	0.597	0.574	0.023	4.01	
BAY14-A10	0.598	0.574	0.024	4.18	
BAY14-A11	0.590	0.574	0.016	2.79	
BAY14-A12	0.595	0.574	0.021	3.66	0.595
BAY14-A13	0.594	0.570	0.024	4.21	
BAY14-A14	0.594	0.570	0.024	4.21	
BAY14-A15	0.590	0.570	0.020	3.51	
BAY14-A16	0.594	0.570	0.024	4.21	0.593
BAY14-A17	0.592	0.566	0.026	4.59	
BAY14-A18	0.593	0.559	0.034	6.08	

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Appendix C: Evaluation of
Permenant Grid Locations

Location Identifier	UT Measured Thickness (inch) Note 1	Acceptance Criteria (inch) Note 2	Margin (inch) Note 3	Margin (percent) Note 4	Ave. Thickness Circumferential Stress (inch) Note 5
BAY15-A01	0.585	0.570	0.015	2.63	
BAY15-A02	0.604	0.570	0.034	5.96	
BAY15-A03	0.605	0.570	0.035	6.14	
BAY15-A04	0.597	0.570	0.027	4.74	0.598
BAY15-A05	0.589	0.574	0.015	2.61	
BAY15-A06	0.609	0.574	0.035	6.10	
BAY15-A07	0.610	0.574	0.036	6.27	
BAY15-A08	0.599	0.574	0.025	4.36	0.602
BAY15-A09	0.582	0.574	0.008	1.39	
BAY15-A10	0.582	0.574	0.008	1.39	
BAY15-A11	0.607	0.574	0.033	5.75	
BAY15-A12	0.606	0.574	0.032	5.57	0.594
BAY15-A13	0.584	0.570	0.014	2.46	
BAY15-A14	0.580	0.570	0.010	1.75	
BAY15-A15	0.605	0.570	0.035	6.14	
BAY15-A16	0.604	0.570	0.034	5.96	0.593
BAY15-A17	0.587	0.566	0.021	3.71	
BAY15-A18	0.581	0.559	0.022	3.94	
BAY16-A01	0.587	0.570	0.017	2.98	
BAY16-A02	0.613	0.570	0.043	7.54	
BAY16-A03	0.615	0.570	0.045	7.89	
BAY16-A04	0.601	0.570	0.031	5.44	0.604
BAY16-A05	0.587	0.574	0.013	2.26	
BAY16-A06	0.616	0.574	0.042	7.32	
BAY16-A07	0.619	0.574	0.045	7.84	
BAY16-A08	0.611	0.574	0.037	6.45	0.608
BAY16-A09	0.601	0.574	0.027	4.70	
BAY16-A10	0.607	0.574	0.033	5.75	
BAY16-A11	0.613	0.574	0.039	6.79	
BAY16-A12	0.610	0.574	0.036	6.27	0.608
BAY16-A13	0.597	0.570	0.027	4.74	
BAY16-A14	0.602	0.570	0.032	5.61	
BAY16-A15	0.611	0.570	0.041	7.19	
BAY16-A16	0.585	0.570	0.015	2.63	0.599
Maximum	0.642		0.072	12.632	0.621
Minimum	0.573		-0.001	-0.174	0.591

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Appendix C: Evaluation of Permenant Grid Locations

Location Identifier	UT Measured Thickness (inch) Note 1	Acceptance Criteria (inch) Note 2	Margin (inch) Note 3	Margin (percent) Note 4	Ave. Thickness Circumferential Stress (inch) Note 5

NOTES

1 After sandblasting thickness measurement.

2 General area corrosion acceptance criteria from VYC-1032, Revision 1.

3 = UT measurement - Acceptance Criteria

4 = % Over Acceptance Criteria

5 = ave. for Circ. Stress (measurments along horizontal line).

V.Y. 1998 ASME SECTION XI SUBSECTION IWE REPORT ON EVALUATION OF TORUS INSPECTIONS
APPENDIX D: EVALUATION OF UT DATA FOR GROUP 3 LOCAL AREA INSPECTIONS

Appendix A TAB No.	ISI Report No.	Location	Description	Inspection Data Statistics. (Thickness, Inches)	Screening Results / Comments
10	YA-UT-112-125	Bay 4: Bottom Plate Thickness Under Baffle Plates.	8 discrete locations: Row 4A (Figure 2.5)	Max. = 0.644" Min. = 0.602" Ave. = 0.623"	All readings above bottom centerline min. wall = 0.584" **No engineering evaluation required.**
	YA-UT-112-126	Bay 15: Torus Bottom Plate Thickness Under Baffle Plates.	8 discrete locations at Row 15A(Figure 2.5) 8 discrete locations at Row 15B(Figure 2.5)	Max. = 0.599" Min. = 0.586" Ave. = 0.592" Max. = 0.610" Min. = 0.596" Ave. = 0.613"	All readings above bottom centerline min. wall = 0.584" **No engineering evaluation required.**
11	YA-UT-112-127 YA-UT-112-129	Bay 7: Local indications at temporary opening.	8 discrete locations adjacent to round indication 27" from bottom of opening. 11 discrete locations adjacent to gouge at top of opening.	Max. = 0.595" Min. = 0.592" Ave. = 0.594" Max. = 0.594" Min. = 0.589" Ave. = 0.591"	Confirmatory readings performed during Torus coating efforts, indications were weld repaired as required, see WPC VY-NCR17. All readings above bottom centerline min. wall = 0.584". **No engineering evaluation required.**
12	(3/31/98)	Bay 1 – Area 1: As-found Local Area UT Examination	3"x8" strip of moderate corrosion located 6" from bottom seam weld and 10" from bay 16/1 ring girder.	Max. = 0.615" Min. = 0.606" Ave. =0.610"	All readings above bottom centerline min. wall = 0.584" **No engineering evaluation required.**

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Appendix A TAB No.	ISI Report No.	Location	Description	Inspection Data Statistics. (Thickness, Inches)	Screening Results / Comments
13	YA-UT-112-27	Bay 2 – Area 1: As-found Local Area UT Examination	Single pit (was identified previously from under water visual coating inspection 9/96). 6"x6" grid located 11'-6" toward Torus ID and 18" from mid bay seam weld.	Max. = 0.609" Min. = 0.591" Ave. =0.606"	All readings above bottom centerline min. wall = 0.584" **No engineering evaluation required.**
14	YA-UT-112-131 YA-UT-112-133	Bay 2 – Area 2: As-found Local Area UT Examination	4"x5" area of moderate corrosion and pitting previously marked as 93-07, located 20'-10" from bottom seam weld and 9" from bay 2/3 ring girder. (6"x6" square area, expanded to 12"x12" area) Post-Sandblast.	Max. = 0.574" Min. = 0.567" Ave. = 0.571	All readings above code minimum wall thickness at this location. See Table 3.1 Permanent grid measurements on the same average 0.578" **No engineering evaluation required.**
15	YA-UT-112-26 YA-UT-112-46	Bay 5 – Area 1: As-found Local Area UT Examination. Bay 5 – Area 1: Confirmatory Readings	9"x12" area of numerous small pits and minor corrosion located 43" from bay 5/6 ring girder and 56" from bottom seam weld. (13"x15" area 1" grids)	Max. = 0.602" Min. = 0.585" Ave. = 0.596"	Note: identified as Bay 5 – Area 2 on As-found Visual Examination (Appendix A ,Tab 1) All readings above bottom centerline min. wall = 0.584". **No engineering evaluation required.**
16	YA-UT-112-25 YA-UT-112-46	Bay 5 – Area 2: As-found Local Area UT Examination Bay 5 – Area 2: Confirmatory Readings	Areas of minor oxidation & degraded coating 26" from bay 4/5 ring girder and 145" from bottom seam weld. (26"x26" area 1" grids)	Max. = 0.599" Min. = 0.586" Ave. = 0.596"	Identified as Bay 5 - Area 3 on As-found Visual Examination (Appendix A ,Tab 1) All readings above bottom centerline min. wall = 0.584" . **No engineering evaluation required.**

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APPENDIX D: EVALUATION OF UT DATA FOR GROUP 3 LOCAL AREA INSPECTIONS

Appendix A TAB No.	ISI Report No.	Location	Description	Inspection Data Statistics. (Thickness, Inches)	Screening Results / Comments
17	YA-UT-112-67 YA-UT-112-68	Bay 5 – Area 1 (Inside) As-found Local Area UT Examination	60"x12" strip of moderate corrosion located 56" from bay 5/6 ring girder along seam weld. (2" grids)	Max. = 0.644" Min. = 0.583" Ave. = 0.613"	Identified as Bay 1 - Area 1 on As-found Visual Examination (Appendix A ,Tab 1), UT readings from interior surface. 4 of 180 UT readings at 0.583" are below code min. wall of 0.584" Lowest measured thickness is 99.8% of code min wall. All readings above bottom acceptance criteria of 0.574". See Table 3.1. **No engineering evaluation required.**
18	YA-UT-112-48	Bay 12 – Area 1: As-found Local Area UT Examination.	6"x6"strip of moderate corrosion 21" from bay 11/12 ring girder, and 88" from bottom seam weld.	Max. = 0.595" Min. = 0.590" Ave. = 0.592"	All readings above bottom centerline min. wall = 0.584" **No engineering evaluation required.**
19	YA-UT-112-24 YA-UT-112-46 YA-UT-112-47	Bay 12 – Area 2: As-found Local Area UT Examination. Bay 12 – Area 2: Confirmatory Readings (26DL+) Bay 12 – Area 2: Confirmatory Readings (A-Scan)	24"x12" area of minor corrosion located 6ft. from bay 11/12 ring girder and approx. 90" from bottom seam weld. (1" grids)	Max. = 0.619" Min. = 0.570" Ave. = 0.595"	Minimum value of 0.570" is greater than acceptance criteria from Table 3.1 for distance of 7 feet from bottom center of Torus. = .569". Locations of thinnest readings are oriented in the circumferential direction & may be due to rolling of plates. **No engineering evaluation required.**
20	(4/1/99)	Bay 15 – Area 1: As-found Local Area UT Examination	8"x8" area of moderate corrosion. Located 14" from bay 15/14 ring girder approx. 19'-6" from bottom seam weld. (area was previously marked 93-16)	Max. = 0.603" Min. = 0.597" Ave. = 0.600"	All readings above bottom centerline min. wall = 0.584" **No engineering evaluation required.**

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Appendix A TAB No.	ISI Report No.	Location	Description	Inspection Data Statistics. (Thickness, Inches)	Screening Results / Comments
21	(4/1/99)	Bay 15 – Area 2: As-found Local Area UT Examination	6"x6" area of moderate corrosion. Located 6" from bay 15/14 ring girder approx. 19'-10" from bottom seam weld. (area was previously marked 93-16)	Max. = 0.603" Min. = 0.543" Ave. = 0.597"	Minimum value of 0.543" is greater than acceptance criteria from Table 3.1 for distance of 19.0 feet from bottom center of Torus (=.534"). Single low reading is characterized as less than diameter of transducer (.312"). Adjacent measurements are approx. 0.600" **No engineering evaluation required.**