an e·on company

Ms. Elizabeth O'Donnell
Public Service Commission
211 Sower Boulevard
P. O. Box 615
Frankfort, Kentucky 40601

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PUBLIC SERVICE COMMISSION

E.ON U.S. LLC
Regulatory Affairs
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March 27, 2007

Re: **Case No. 2000-278** **Gas Meter Performance Control Plan**
Case No. 2002-00262 **Residential Regulator Inspection and Replacement Program**

Dear Ms. O'Donnell:

Pursuant to the above mentioned cases, Louisville Gas and Electric ("LG&E) hereby files 5 copies of the annual report.

If you have any questions please do not hesitate to contact me.

Sincerely,

Marty J. Reinert

Marty J. Reinert

Attachments

Louisville Gas & Electric

Gas Meter Performance Control Plan Year 2006

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LG&E

American AL425	Test Year 2006								
425 CFH	Control Group-Installed Year								
Code: 015	1993	1994	1995	1996	1997	1998	2000	2002	2004
Sample Plan	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced
Sample Size	32	32	32	32	32	32	32	32	32
Original Population	59	134	260	656	552	732	554	417	467
# of Slow Failures	0	0	0	1	0	1	0	0	0
# of Fast Failures	0	0	0	0	0	0	0	0	0
Total Failures:	0	0	0	1	0	1	0	0	0
Accept Level	5	5	5	5	5	5	5	5	5
Reject Level	8	8	8	8	8	8	8	8	8
Pass/ Fail?	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
If Failed - Remove By:	NA	NA	NA	NA	NA	NA	NA	NA	NA
Statistical Data:									
Mean (Average Proof)	0.151563	-0.03125	-0.325	-0.40313	-0.32813	-0.59531	0.017188	-0.17813	-0.27813
Median	0.175	-0.075	-0.325	-0.325	-0.375	-0.625	0.05	-0.175	-0.4
Standard Deviation	0.770995	0.712079	0.596901	0.678939	0.713345	0.785284	0.494585	0.483758	0.491039
Sample Variance	0.594433	0.507056	0.35629	0.460958	0.508861	0.616671	0.244614	0.234022	0.241119
Skewness	-0.09246	-0.37754	-0.09459	-0.31893	0.70856	-0.41332	0.193743	0.291801	0.274382
Minimum	-1.45	-1.85	-1.95	-2.35	-2	-2.8	-0.85	-1.1	-1.65
Maximum	1.6	1.45	1.25	1.3	1.55	0.9	1.2	0.95	1.1
Count	32	32	32	32	32	32	32	32	32
Confidence Level(95.0%)	0.277973	0.256732	0.215206	0.244783	0.257188	0.283125	0.178317	0.174413	0.177038

Year 2006

Meter Code 015 American AL 425

Code & Year:	1993
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	6
-.4 to .4	13
.4 to 1.2	8
1.2 to 2.0	4
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	1994
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	4
-.4 to .4	19
.4 to 1.2	5
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	1995
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	8
-.4 to .4	19
.4 to 1.2	2
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	1996
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	2
-1.2 to -.4	11
-.4 to .4	16
.4 to 1.2	1
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	1997
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	12
-.4 to .4	14
.4 to 1.2	1
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

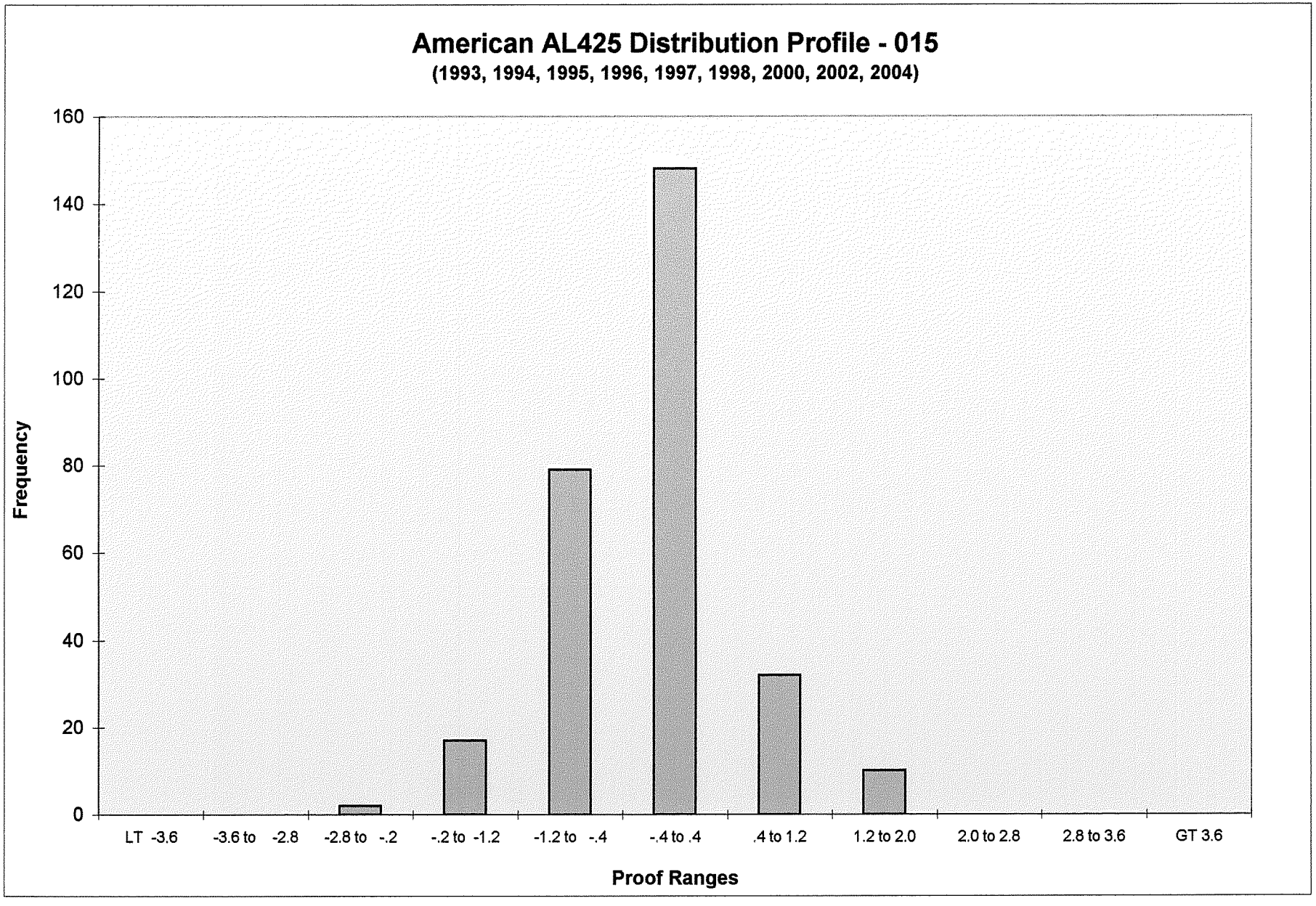
Code & Year:	1998
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	6
-1.2 to -.4	10
-.4 to .4	12
.4 to 1.2	3
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	2000
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	5
-.4 to .4	20
.4 to 1.2	7
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	10
-.4 to .4	19
.4 to 1.2	3
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	2004
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	13
-.4 to .4	16
.4 to 1.2	2
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	Total
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	2
-.2 to -1.2	17
-1.2 to -.4	79
-.4 to .4	148
.4 to 1.2	32
1.2 to 2.0	10
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	288


American AL425 Distribution Profile - 015
(1993, 1994, 1995, 1996, 1997, 1998, 2000, 2002, 2004)
Frequency
160
140
120
100
80
60
40
20
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

Metris 250	Test Year 2006								
250 CFH	Control Group-Installed Year								
Code: 018	2000	2002	2004						
Sample Plan	Single	Single	Single						
Sample Size	125	200	200						
Original Population	1661	4586	5493						
# of Slow Failures	0	2	8						
# of Fast Failures	0	0	1						
Total Failures:	0	2	9						
Accept Level	14	21	21						
Reject Level	15	22	22						
Pass / Fail?	Pass	Pass	Pass						
If Failed - Remove By:	NA	NA	NA						
Statistical Data:									
Mean (Average Proof)	-0.72813	-1.63906	-2.00625						
Median	-0.675	-1.525	-1.8						
Standard Deviation	0.287912	0.353949	0.576243						
Sample Variance	0.082893	0.12528	0.332056						
Skewness	-1.65761	-1.91285	-2.49983						
Minimum	-1.7	-2.9	-4.2						
Maximum	-0.4	-1.3	-1.5						
Count	32	32	32						
Confidence Level(95.0%)	0.103803	0.127612	0.207758						

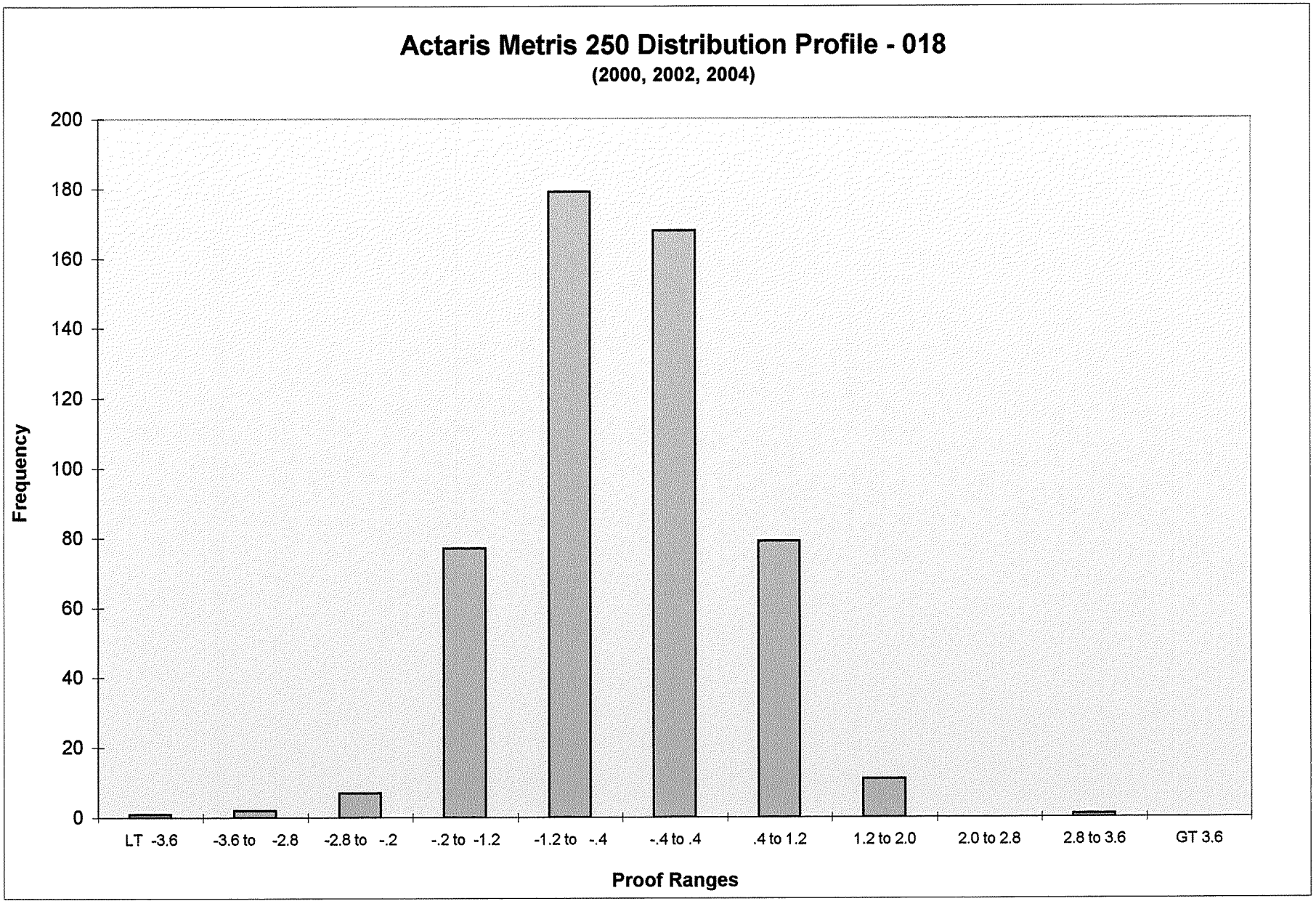
Test Year 2006 Meter Code 018 Metris 250

Code & Year:	2000
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	29
-.4 to .4	59
.4 to 1.2	30
1.2 to 2.0	5
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	125

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	1
-2.8 to -.2	1
-.2 to -1.2	34
-1.2 to -.4	81
-.4 to .4	60
.4 to 1.2	20
1.2 to 2.0	3
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	200

Code & Year:	2004
Data Range	Number
LT -3.6	1
-3.6 to -2.8	1
-2.8 to -.2	6
-.2 to -1.2	41
-1.2 to -.4	69
-.4 to .4	49
.4 to 1.2	29
1.2 to 2.0	3
2.0 to 2.8	0
2.8 to 3.6	1
GT 3.6	0
Total	200

Code & Year:	Totals
Data Range	Number
LT -3.6	1
-3.6 to -2.8	2
-2.8 to -.2	7
-.2 to -1.2	77
-1.2 to -.4	179
-.4 to .4	168
.4 to 1.2	79
1.2 to 2.0	11
2.0 to 2.8	0
2.8 to 3.6	1
GT 3.6	0
Total	525

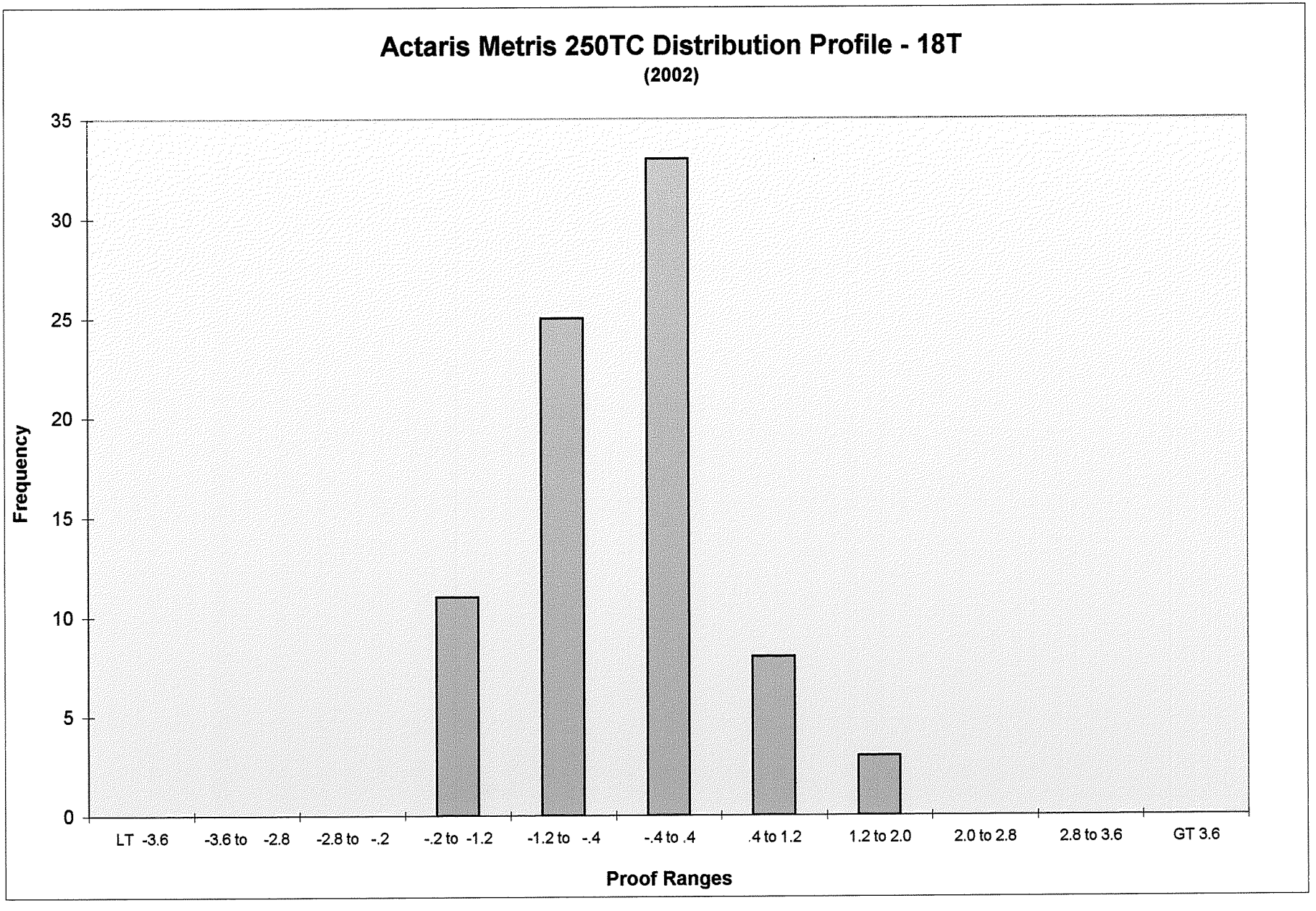

Actaris Metris 250 Distribution Profile - 018
(2000, 2002, 2004)
Frequency
200
180
160
140
120
100
80
60
40
20
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

Metris 250 TC	Year 2006								
175 CFH	Control Group-Installed Year								
Code: 18T	2002								
Sample Plan	Single								
Sample Size	80								
Original Population	890								
# of Slow Failures	0								
# of Fast Failures	0								
Total Failures:	0								
Accept Level	10								
Reject Level	11								
Pass / Fail?	**Pass**								
If Failed - Remove By:	NA								
Statistical Data:									
Mean (Average Proof)	-1.07813								
Median	-0.875								
Standard Deviation	0.462451								
Sample Variance	0.213861								
Skewness	-0.73615								
Minimum	-2								
Maximum	-0.55								
Count	32								
Confidence Level(95.0%)	0.166731								

Year 2006 Meter Code 18T Mteris 250 TC

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	11
-1.2 to -.4	25
-.4 to .4	33
.4 to 1.2	8
1.2 to 2.0	3
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	Totals
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	11
-1.2 to -.4	25
-.4 to .4	33
.4 to 1.2	8
1.2 to 2.0	3
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

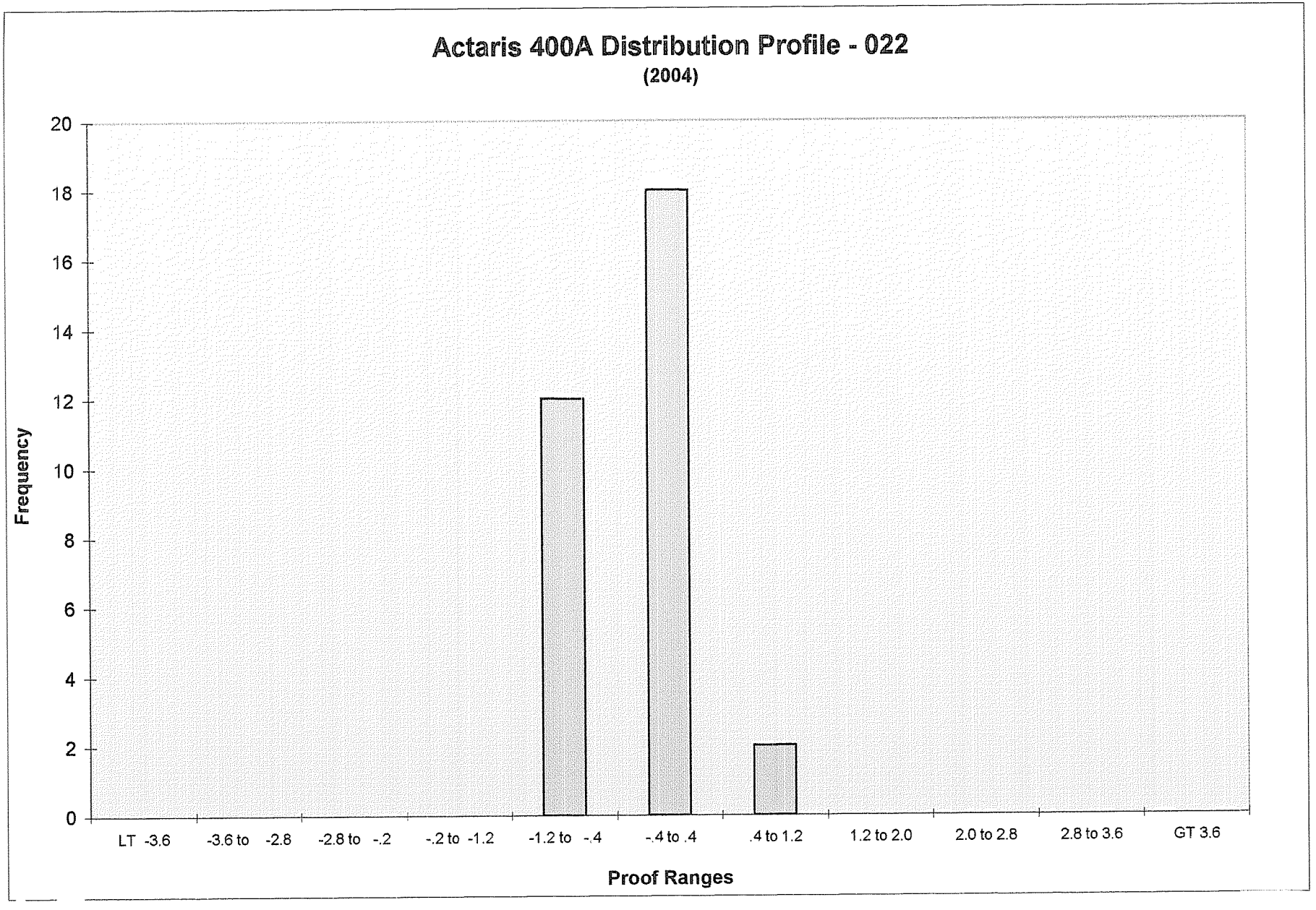

Actaris Metris 250TC Distribution Profile - 18T
(2002)
Frequency
35
30
25
20
15
10
5
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

Actaris 400A	Year 2006								
400 CFH	Control Group-Installed Year								
Code: 022	2004								
Sample Plan	Single								
Sample Size	32								
Original Population	102								
# of Slow Failures	0								
# of Fast Failures	0								
Total Failures:	0								
Accept Level	5								
Reject Level	6								
Pass / Fail?	**Pass**								
If Failed - Remove By:	NA								
Statistical Data:									
Mean (Average Proof)	-0.20469								
Median	-0.225								
Standard Deviation	0.395205								
Sample Variance	0.156187								
Skewness	0.671977								
Minimum	-0.75								
Maximum	0.85								
Count	32								
Confidence Level(95.0%)	0.142487								

Year 2006 Meter Code 022 Actaris 400A

Code & Year:	2004
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	12
-.4 to .4	18
.4 to 1.2	2
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	Totals
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	17
-.4 to .4	36
.4 to 1.2	9
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	64


Actaris 400A Distribution Profile - 022
(2004)
Frequency
20
18
16
14
12
10
8
6
4
2
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

Rockwell R175	Year 2006															
175 CFH	Control Group-Installed Year															
Code: 024	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	2000	2002	2004
Sample Plan	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single
Sample Size	200	200	200	200	200	200	200	200	200	200	125	80	125	125	125	125
Original Population	4916	4669	3294	4830	4068	4683	5200	5432	4100	3910	1929	992	1568	1530	1972	3049
# of Slow Failures	5	2	6	3	4	4	4	6	1	0	2	2	1	1	2	1
# of Fast Failures	9	4	1	2	4	3	1	3	1	1	0	0	1	0	1	0
Total Failures:	14	6	7	5	8	7	5	9	2	1	2	2	2	1	3	1
Accept Level	21	21	21	21	21	21	21	21	21	21	14	10	14	14	14	14
Reject Level	22	22	22	22	22	22	22	22	22	22	15	11	15	15	15	15
Pass / Fail?	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
If Failed - Remove By:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Statistical Data:																
Mean (Average Proof)	0.3435	0.18725	0.00175	0.07825	0.0085	0.13975	-0.0915	-0.2025	0.06075	0.027	-0.3168	-0.435	-0.3204	-0.1984	-0.1116	-0.1208
Median	0.35	0.25	0.1	0.175	0	0.25	-0.025	-0.15	0.15	0.125	-0.2	-0.375	-0.25	-0.2	-0.1	-0.1
Standard Deviation	1.181519	0.940357	1.065439	0.965037	0.979092	1.171728	0.90486	0.983683	0.832021	0.781264	0.748168	0.854341	0.895173	0.721863	1.014494	0.614416
Sample Variance	1.395988	0.884271	1.13516	0.931296	0.958621	1.372947	0.818772	0.967632	0.692258	0.610373	0.559756	0.729899	0.801335	0.521086	1.029199	0.377507
Skewness	-0.12812	-0.20602	-2.14617	-1.44328	-0.02306	-2.67101	-0.29509	0.086305	-0.14386	-0.17498	-0.69623	-0.39307	-0.37929	0.147725	-3.96175	-0.69475
Minimum	-3.55	-4.25	-7.45	-5.45	-3.5	-8.4	-2.75	-3.45	-2.85	-2	-3.2	-3.5	-3.65	-2.4	-8.15	-2.8
Maximum	4.6	3.8	2.2	2.2	3.35	2.8	2.05	4.15	2.95	2.1	1.55	1.6	2	2.2	2.4	1.35
Count	200	200	200	200	200	200	200	200	200	200	125	80	125	125	125	125
Confidence Level(95.0%)	0.164749	0.131122	0.148563	0.134563	0.136523	0.163384	0.126172	0.137163	0.116016	0.108938	0.13245	0.190124	0.158474	0.127793	0.179598	0.108771

Year 2006 Meter Code 024 Rockwell R175

Code & Year:	1986
Data Range	Number
LT -3.6	0
-3.6 to -2.8	3
-2.8 to -.2	2
-.2 to -1.2	12
-1.2 to -.4	27
-.4 to .4	62
.4 to 1.2	49
1.2 to 2.0	36
2.0 to 2.8	4
2.8 to 3.6	3
GT 3.6	2
Total	200

Code & Year:	1987
Data Range	Number
LT -3.6	1
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	9
-1.2 to -.4	29
-.4 to .4	87
.4 to 1.2	47
1.2 to 2.0	22
2.0 to 2.8	2
2.8 to 3.6	1
GT 3.6	1
Total	200

Code & Year:	1988
Data Range	Number
LT -3.6	2
-3.6 to -2.8	3
-2.8 to -.2	1
-.2 to -1.2	12
-1.2 to -.4	38
-.4 to .4	72
.4 to 1.2	56
1.2 to 2.0	15
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	200

Code & Year:	1989
Data Range	Number
LT -3.6	2
-3.6 to -2.8	1
-2.8 to -.2	0
-.2 to -1.2	14
-1.2 to -.4	30
-.4 to .4	83
.4 to 1.2	53
1.2 to 2.0	15
2.0 to 2.8	2
2.8 to 3.6	0
GT 3.6	0
Total	200

Code & Year:	1990
Data Range	Number
LT -3.6	0
-3.6 to -2.8	2
-2.8 to -.2	2
-.2 to -1.2	12
-1.2 to -.4	47
-.4 to .4	74
.4 to 1.2	44
1.2 to 2.0	15
2.0 to 2.8	3
2.8 to 3.6	1
GT 3.6	0
Total	200

Code & Year:	1991
Data Range	Number
LT -3.6	3
-3.6 to -2.8	1
-2.8 to -.2	0
-.2 to -1.2	8
-1.2 to -.4	31
-.4 to .4	82
.4 to 1.2	49
1.2 to 2.0	23
2.0 to 2.8	3
2.8 to 3.6	0
GT 3.6	0
Total	200

Code & Year:	1992
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	4
-.2 to -1.2	20
-1.2 to -.4	41
-.4 to .4	74
.4 to 1.2	49
1.2 to 2.0	11
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	200

Code & Year:	1993
Data Range	Number
LT -3.6	0
-3.6 to -2.8	3
-2.8 to -.2	3
-.2 to -1.2	17
-1.2 to -.4	56
-.4 to .4	72
.4 to 1.2	43
1.2 to 2.0	3
2.0 to 2.8	1
2.8 to 3.6	1
GT 3.6	1
Total	200

Code & Year:	1994
Data Range	Number
LT -3.6	0
-3.6 to -2.8	1
-2.8 to -.2	0
-.2 to -1.2	15
-1.2 to -.4	32
-.4 to .4	87
.4 to 1.2	51
1.2 to 2.0	13
2.0 to 2.8	0
2.8 to 3.6	1
GT 3.6	0
Total	200

Code & Year:	1995
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	11
-1.2 to -.4	42
-.4 to .4	89
.4 to 1.2	50
1.2 to 2.0	7
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	200

Year 2006

Meter Code 024 Rockwell R175

Code & Year:	1996
Data Range	Number
LT -3.6	0
-3.6 to -2.8	1
-2.8 to -.2	1
-.2 to -1.2	11
-1.2 to -.4	37
-.4 to .4	61
.4 to 1.2	13
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	125

Code & Year:	1997
Data Range	Number
LT -3.6	0
-3.6 to -2.8	1
-2.8 to -.2	1
-.2 to -1.2	12
-1.2 to -.4	23
-.4 to .4	34
.4 to 1.2	6
1.2 to 2.0	3
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

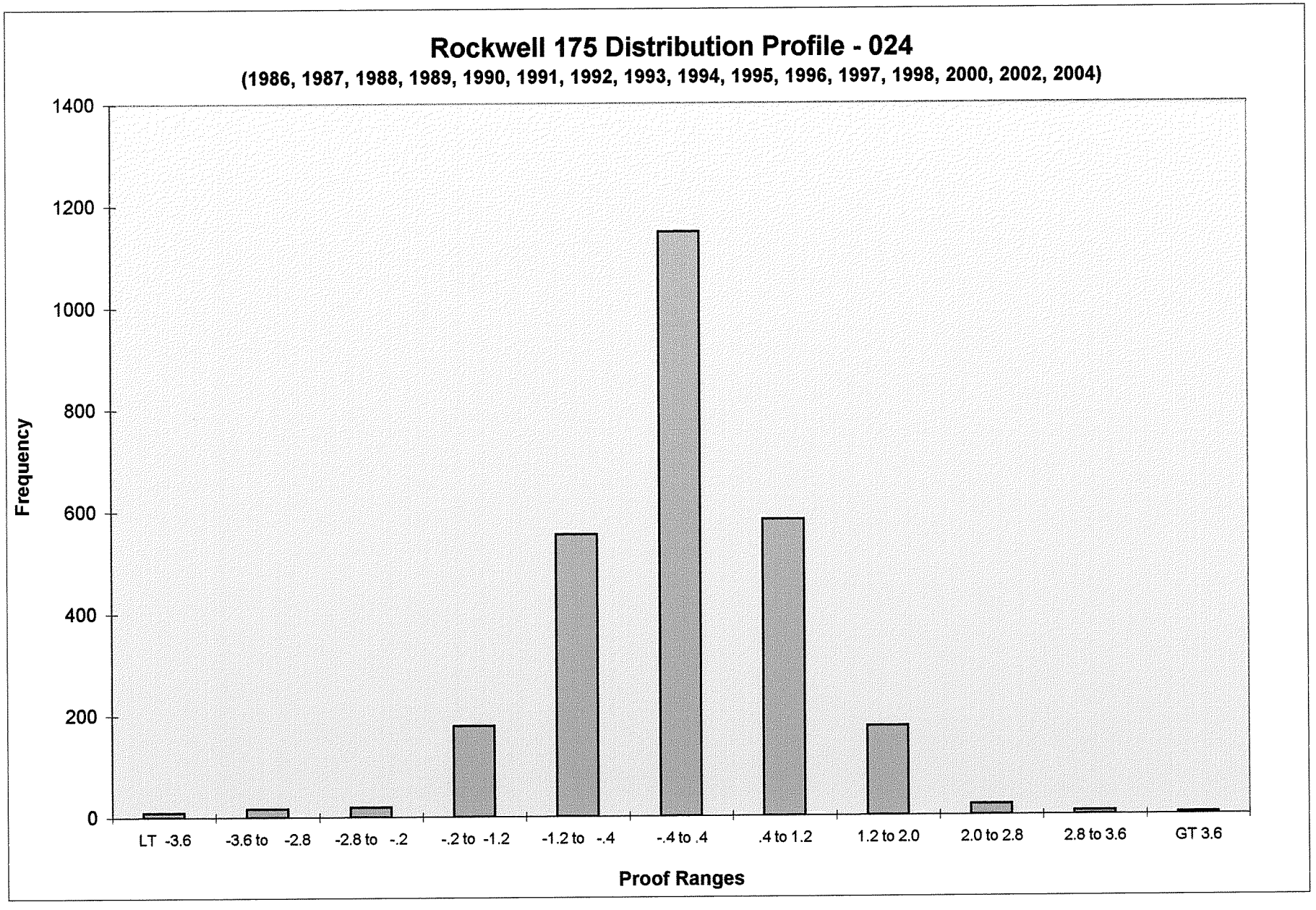
Code & Year:	1998
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	9
-1.2 to -.4	32
-.4 to .4	62
.4 to 1.2	17
1.2 to 2.0	3
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	125

Code & Year:	2000
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	9
-1.2 to -.4	32
-.4 to .4	62
.4 to 1.2	17
1.2 to 2.0	3
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	125

Code & Year:	2002
Data Range	Number
LT -3.6	1
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	5
-1.2 to -.4	25
-.4 to .4	69
.4 to 1.2	18
1.2 to 2.0	5
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	125

Code & Year:	2004
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	3
-1.2 to -.4	32
-.4 to .4	68
.4 to 1.2	20
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	125

Code & Year:	Totals
Data Range	Number
LT -3.6	9
-3.6 to -2.8	16
-2.8 to -.2	19
-.2 to -1.2	179
-1.2 to -.4	554
-.4 to .4	1148
.4 to 1.2	582
1.2 to 2.0	176
2.0 to 2.8	21
2.8 to 3.6	7
GT 3.6	4
Total	2715

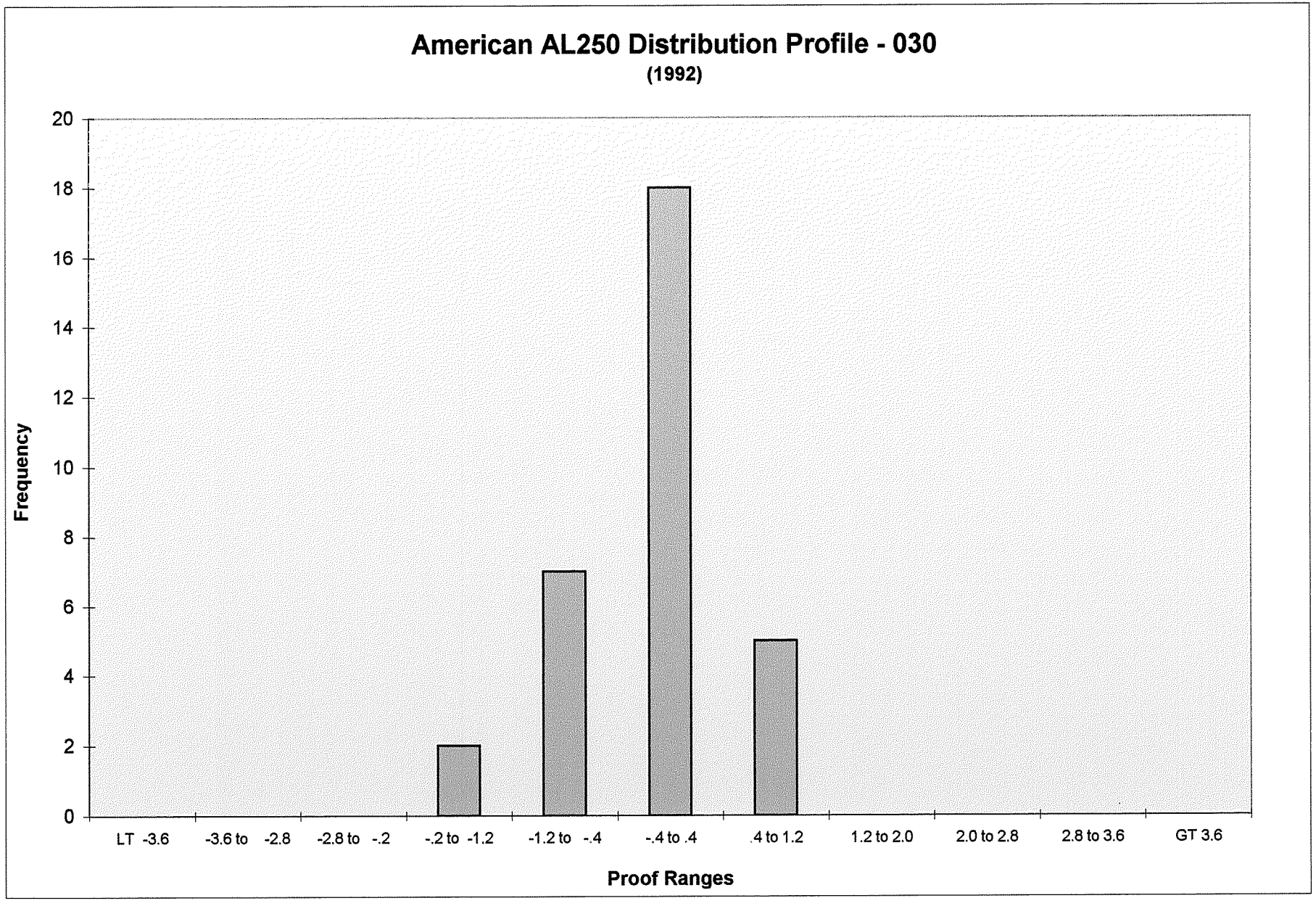

Rockwell 175 Distribution Profile - 024
(1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 2000, 2002, 2004)
Frequency
1400
1200
1000
800
600
400
200
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

American AL 250	Year 2006								
250 CFH	Control Group-Installed Year								
Code: 030	1992								
Sampling Plan	Single								
Sample Size	32								
Original Population	203								
# of Slow Failures	0								
# of Fast Failures	0								
Total Failures:	0								
Accept Level	5								
Reject Level	6								
Pass/ Fail?	**Pass**								
If Failed - Remove By:	NA								
Statistical Data:									
Mean (Average Proof)	-0.15								
Median	-0.1								
Standard Deviation	0.675015								
Sample Variance	0.455645								
Skewness	-0.72528								
Minimum	-2								
Maximum	1.15								
Count	32								
Confidence Level(95.0%)	0.243369								

Year 2006 Meter Code 030 American AL250

Code & Year:	1992
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	7
-.4 to .4	18
.4 to 1.2	5
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	Total
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	7
-.4 to .4	18
.4 to 1.2	5
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32


American AL250 Distribution Profile - 030
(1992)
Frequency
20
18
16
14
12
10
8
6
4
2
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

American AL175	Year 2006																
175 CFH	Control Group-Installed Year																
Code: 033	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	2000	2002	2004
Sample Plan	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced
Sample Size	50	50	32	80	50	80	80	80	80	80	80	80	80	80	80	50	50
Original Population	1427	2100	1022	4059	2514	7032	8495	8231	8349	8547	8548	5667	9165	6132	8168	2928	2286
# of Slow Failures	3	1	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0
# of Fast Failures	1	0	0	0	0	1	2	0	0	1	0	0	3	0	1	1	0
Total Failures:	4	1	0	0	0	1	3	0	0	1	1	1	3	0	1	1	0
Accept Level	7	7	5	10	7	10	10	10	10	10	10	10	10	10	10	7	7
Reject Level	10	10	8	13	10	13	13	13	13	13	13	13	13	13	13	10	10
Pass / Fail?	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
If Failed - Remove By:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Statistical Data:																	
Mean (Average Proof)	-0.134	-0.295	-0.03125	-0.283	0.129	-0.28	-0.115	-0.193	-0.148	-0.315	-0.561	-0.55	-0.505	-0.621	-0.281	-0.324	-0.599
Median	0.125	-0.25	-0.15	-0.2	0.2	-0.175	0.15	-0.075	-0.05	-0.3	-0.425	-0.55	-0.525	-0.55	-0.225	-0.45	-0.55
Standard Deviation	1.395599	0.574123	0.483894	0.401351	0.592478	0.433189	1.224839	0.410576	0.37252	0.332776	0.70293	0.430116	0.343192	0.306409	0.300661	0.885037	0.515028
Sample Variance	1.947698	0.329617	0.234153	0.161083	0.35103	0.187653	1.50023	0.168572	0.138771	0.11074	0.494111	0.185	0.117781	0.093887	0.090397	0.78329	0.265254
Skewness	-3.74987	-1.36919	0.630056	-1.83192	-0.14336	-1.46452	-6.00724	-2.12237	-1.02274	-0.4269	-4.52186	-1.93299	-0.90343	-1.13198	-1.22777	4.97793	-0.21052
Minimum	-7.9	-2.45	-0.8	-1.85	-1.5	-1.85	-8.15	-1.7	-1.35	-1.1	-4.75	-2.5	-1.6	-1.55	-1.35	-1.25	-1.8
Maximum	2.25	0.55	1.05	0.2	1.65	0.25	0.5	0.3	0.35	0.25	0	-0.05	0	-0.2	0.1	5.15	0.55
Count	50	50	32	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Confidence Level(95.0%)	0.396625	0.163164	0.174462	0.114063	0.16838	0.123111	0.348095	0.116684	0.105869	0.094574	0.199771	0.122238	0.097534	0.087081	0.085447	0.251525	0.146369

Test Year 2006

Meter Code 033 American AL175

Code & Year:	1995
Data Range	Number
LT -3.6	1
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	21
-.4 to .4	45
.4 to 1.2	10
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1996
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	0
-1.2 to -.4	26
-.4 to .4	44
.4 to 1.2	9
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1997
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	27
-.4 to .4	34
.4 to 1.2	14
1.2 to 2.0	0
2.0 to 2.8	2
2.8 to 3.6	1
GT 3.6	0
Total	80

Code & Year:	1998
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	30
-.4 to .4	40
.4 to 1.2	5
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	2000
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	11
-.4 to .4	57
.4 to 1.2	9
1.2 to 2.0	1
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	26
-.4 to .4	21
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	1
Total	50

Code & Year:	2004
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	6
-1.2 to -.4	25
-.4 to .4	18
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year:	Total
Data Range	Number
LT -3.6	3
-3.6 to -2.8	1
-2.8 to -.2	3
-.2 to -1.2	30
-1.2 to -.4	253
-.4 to .4	633
.4 to 1.2	204
1.2 to 2.0	25
2.0 to 2.8	6
2.8 to 3.6	1
GT 3.6	3
Total	1162

Test Year 2006

Meter Code 033 American AL175

Code & Year:	1985
Data Range	Number
LT -3.6	1
-3.6 to -2.8	1
-2.8 to -.2	1
-.2 to -1.2	1
-1.2 to -.4	6
-.4 to .4	26
.4 to 1.2	12
1.2 to 2.0	1
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year:	1986
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	3
-1.2 to -.4	12
-.4 to .4	33
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year:	1987
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	6
-.4 to .4	21
.4 to 1.2	5
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	1988
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	9
-.4 to .4	51
.4 to 1.2	16
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1989
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	8
-.4 to .4	26
.4 to 1.2	14
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

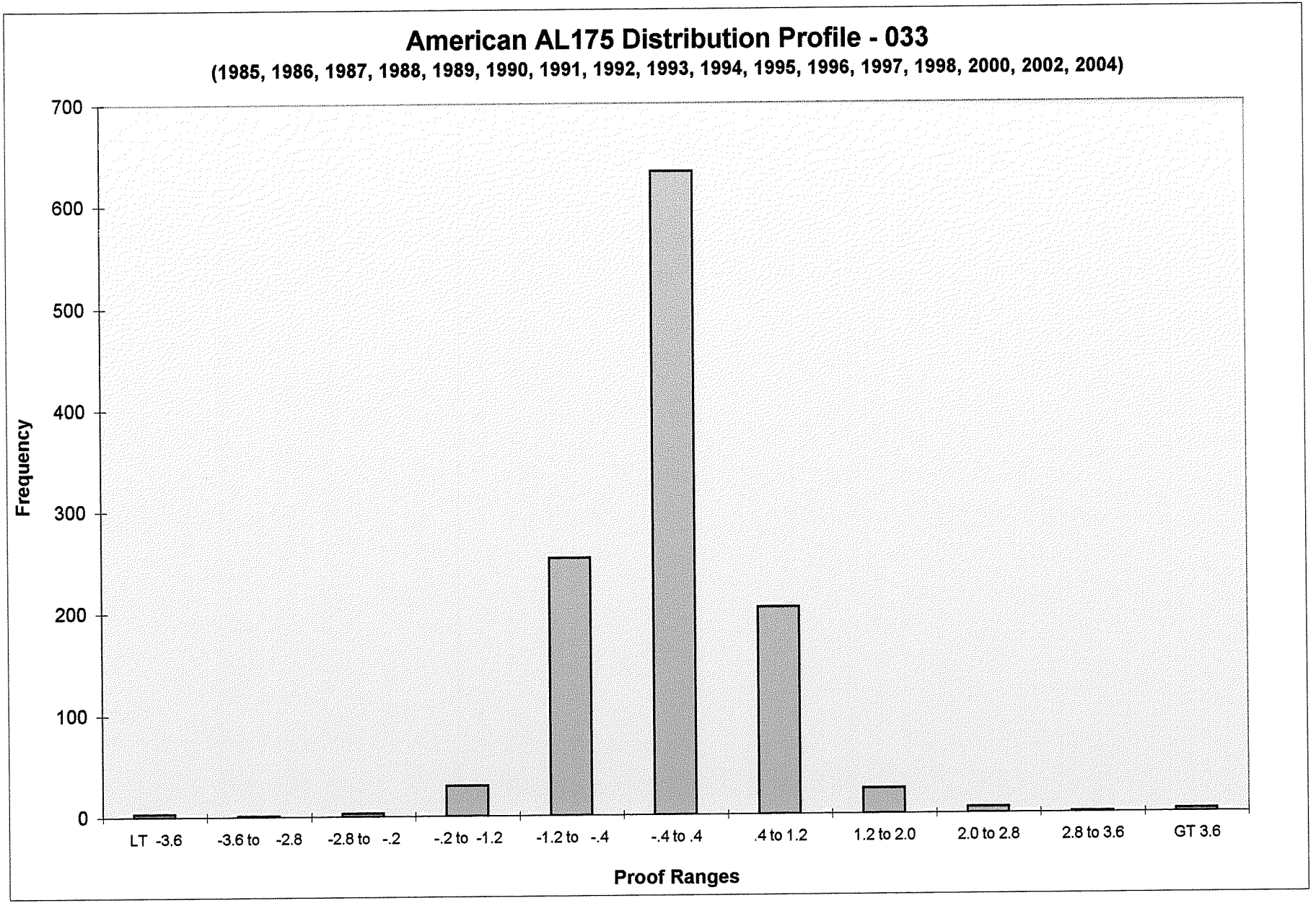
Code & Year:	1990
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	10
-.4 to .4	48
.4 to 1.2	18
1.2 to 2.0	1
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1991
Data Range	Number
LT -3.6	1
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	4
-.4 to .4	37
.4 to 1.2	29
1.2 to 2.0	6
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	1
Total	80

Code & Year:	1992
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	5
-.4 to .4	48
.4 to 1.2	23
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1993
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	9
-.4 to .4	44
.4 to 1.2	21
1.2 to 2.0	5
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1994
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	18
-.4 to .4	40
.4 to 1.2	16
1.2 to 2.0	5
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	1
Total	80


American AL175 Distribution Profile - 033
(1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 2000, 2002, 2004)
Frequency
700
600
500
400
300
200
100
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

American AL175	Year 2006								
175 CFH	Control Group-installed Year								
Code: 33A	1992	1993	1994	1997					
Sample Plan	Reduced	Reduced	Reduced	Reduced					
Sample Size	80	50	50	32					
Original Population	5600	2352	2940	1037					
# of Slow Failures	0	0	0	0					
# of Fast Failures	0	0	0	0					
Total Failures:	0	0	0	0					
Accept Level	10	7	7	5					
Reject Level	13	10	10	8					
Pass / Fail?	Pass	Pass	Pass	Pass					
If Failed - Remove By:	NA	NA	NA	NA					
Statistical Data:									
Mean (Average Proof)	-0.26875	-0.07969	-0.14063	-0.06875					
Median	-0.2	0.05	-0.05	0					
Standard Deviation	0.35509	0.479055	0.327364	0.472596					
Sample Variance	0.126089	0.229493	0.107167	0.223347					
Skewness	-1.30872	-1.98941	-0.60216	-0.77831					
Minimum	-1.2	-1.9	-0.9	-1.35					
Maximum	0.15	0.4	0.3	1					
Count	32	32	32	32					
Confidence Level(95.0%)	0.128023	0.172718	0.118027	0.170389					

Year 2006

Meter Code 33A American AL175

Code & Year: 1992	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	8
-.4 to .4	41
.4 to 1.2	26
1.2 to 2.0	5
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

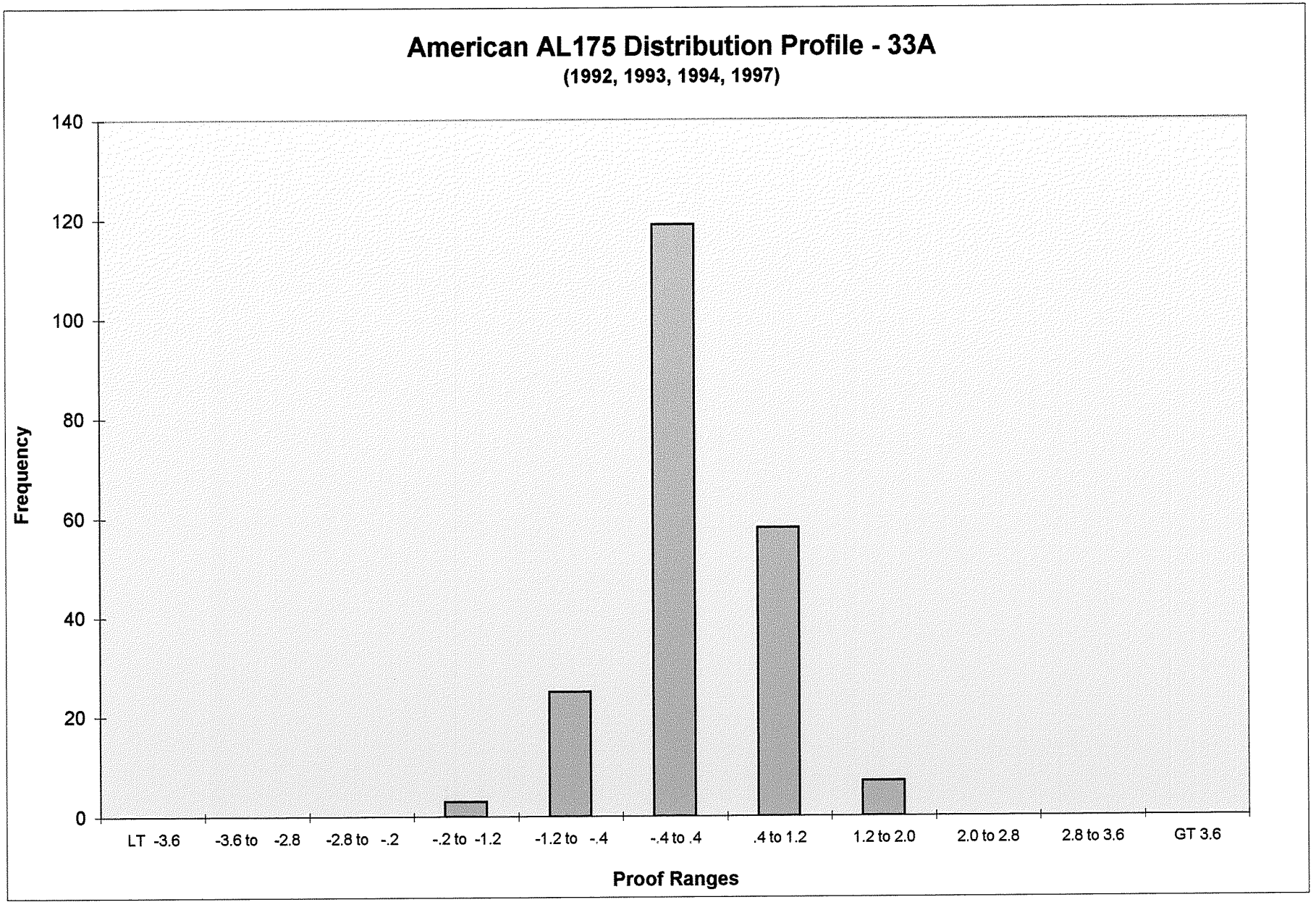
#

Code & Year: 1993	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	6
-.4 to .4	26
.4 to 1.2	16
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year: 1994	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	8
-.4 to .4	28
.4 to 1.2	13
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year: 1997	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	3
-.4 to .4	24
.4 to 1.2	3
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year: Total	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	25
-.4 to .4	119
.4 to 1.2	58
1.2 to 2.0	7
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	212


American AL175 Distribution Profile - 33A
(1992, 1993, 1994, 1997)
Frequency
140
120
100
80
60
40
20
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

American AL310	Year 2006							
310 CFH	Control Group-Installed Year							
Code: 034	**1997**							
Sample Plan	Single							
Sample Size	3*							
Original Population	12*							
# of Slow Failures	0							
# of Fast Failures	0							
Total Failures:	0							
Accept Level	0							
Reject Level	1							
Pass / Fail?	**Pass**							
If Failed - Remove By:	Exhausted							
Statistical Data:								
Mean (Average Proof)	-0.31667							
Median	-0.6							
Standard Deviation	0.579511							
Sample Variance	0.335833							
Skewness	1.67421							
Minimum	-0.7							
Maximum	0.35							
Count	3							
Confidence Level(95.0%)	1.439586							

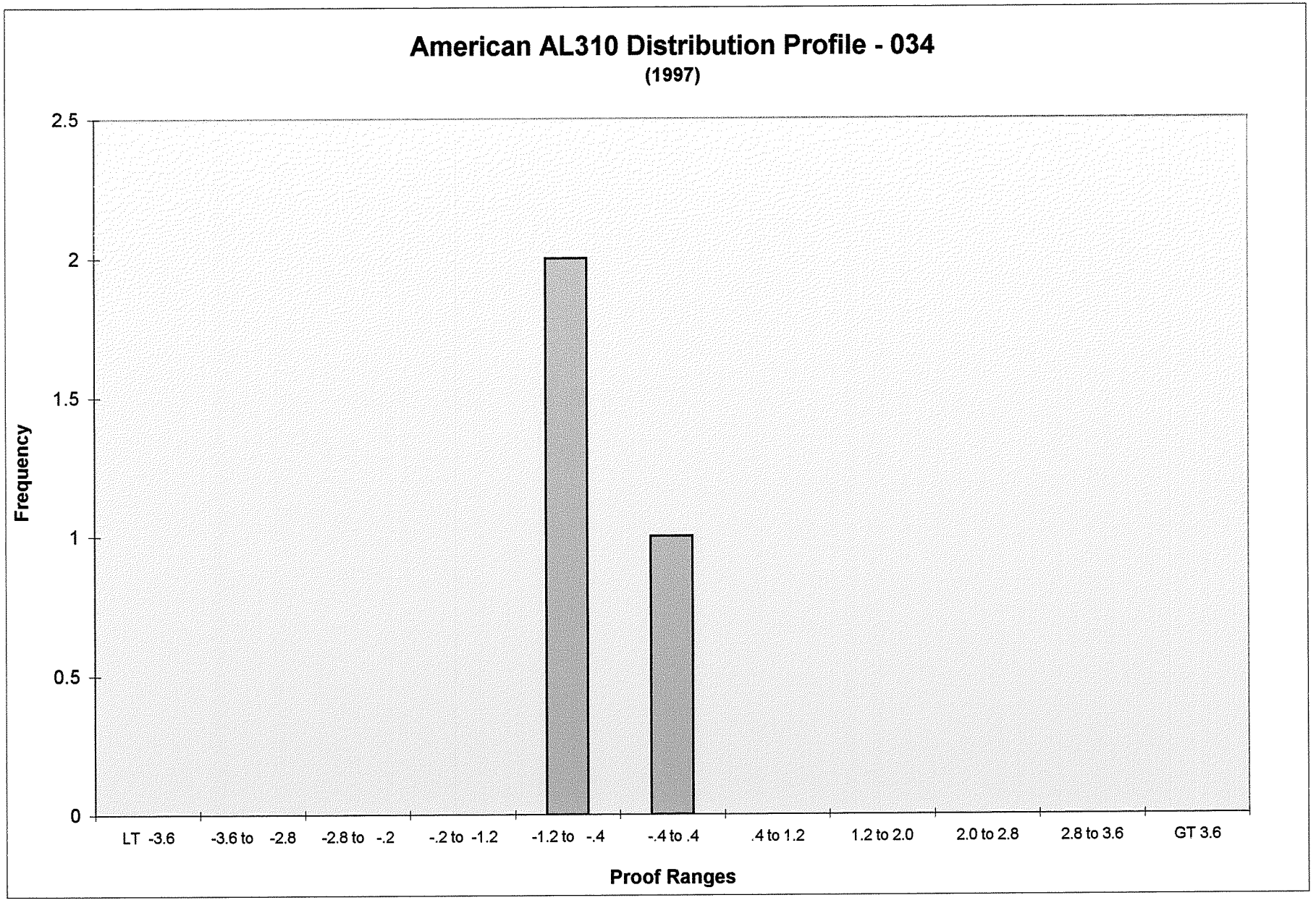
* Population less than required 32 minimum sample size - all meters to be changed - Single Sampling Plan For Normal Inspection used to obtain obtain sample size to determine if control passed or failed.

Year 2006

Meter Code 034 American AL310

Code & Year:	1997
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	2
-.4 to .4	1
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	3

Code & Year:	Totals
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	2
-.4 to .4	1
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	3


American AL310 Distribution Profile - 034
(1997)
Frequency
2.5
2
1.5
1
0.5
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

American 5B225
225 CFH
Code: 041

Year 2006

	Control Group-Installed Year							
	1986	1987	1988	1989	1990	1993	1995	1996
Sample Plan	Single	Single	Single	Single	Single	Single	Single	Single
Sample Size	32	32	32	32	32	32	50	50
Original Population	223	136	162	219	166	90	408	484
# of Slow Failures	0	1	1	1	2	0	0	1
# of Fast Failures	0	2	1	2	1	0	0	0
Total Failures:	0	3	2	3	3	0	0	1
Accept Level	5	5	5	5	5	5	7	7
Reject Level	6	6	6	6	6	6	8	8
Pass / Fail?	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
If Failed - Remove By:	NA	NA	NA	NA	NA	NA	NA	NA
Statistical Data:								
Mean (Average Proof)	-0.364063	0.195313	-0.00781	0.18125	-0.26719	-0.08594	-0.028	-0.47
Median	-0.525	0.175	0.3	0.1	-0.025	-0.1	-0.05	-0.5
Standard Deviation	0.8947188	1.075786	1.191577	1.277646	1.089437	0.687355	0.66118	0.647602
Sample Variance	0.8005217	1.157316	1.419856	1.632379	1.186872	0.472457	0.437159	0.419388
Skewness	0.1896829	0.509614	-0.29168	0.041892	-0.10714	0.780087	0.213856	-0.14939
Minimum	-1.95	-2.1	-2.7	-3.95	-3.2	-1.55	-1.85	-2.45
Maximum	1.5	3.3	2.25	4.25	2.7	1.75	1.8	1.1
Count	32	32	32	32	32	32	50	50
Confidence Level(95.0%)	0.3225805	0.387862	0.429609	0.46064	0.392784	0.247818	0.187905	0.184046

Year 2006

Meter Code 041 American 5B-225

Code & Year:	1986
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	4
-1.2 to -.4	14
-.4 to .4	6
.4 to 1.2	7
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	1987
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	1
-1.2 to -.4	5
-.4 to .4	15
.4 to 1.2	5
1.2 to 2.0	3
2.0 to 2.8	1
2.8 to 3.6	1
GT 3.6	0
Total	32

Code & Year:	1988
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	5
-1.2 to -.4	5
-.4 to .4	8
.4 to 1.2	9
1.2 to 2.0	3
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	1989
Data Range	Number
LT -3.6	1
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	8
-.4 to .4	11
.4 to 1.2	9
1.2 to 2.0	1
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	1
Total	32

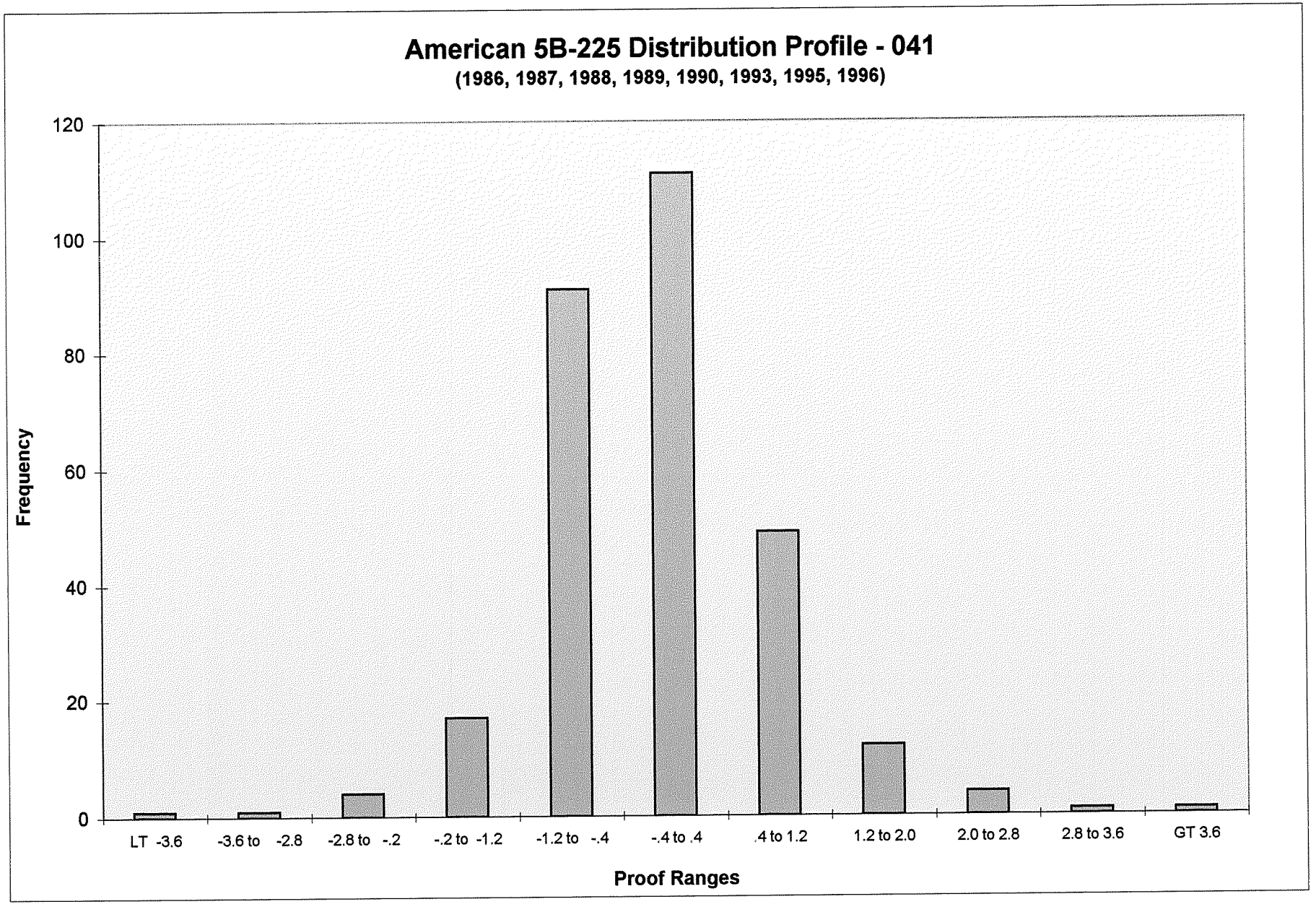
Code & Year:	1990
Data Range	Number
LT -3.6	0
-3.6 to -2.8	1
-2.8 to -.2	1
-.2 to -1.2	2
-1.2 to -.4	11
-.4 to .4	11
.4 to 1.2	4
1.2 to 2.0	1
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	1993
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	10
-.4 to .4	16
.4 to 1.2	3
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	1995
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	13
-.4 to .4	26
.4 to 1.2	9
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year:	1996
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	3
-1.2 to -.4	25
-.4 to .4	18
.4 to 1.2	3
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year:	Total
Data Range	Number
LT -3.6	1
-3.6 to -2.8	1
-2.8 to -.2	4
-.2 to -1.2	17
-1.2 to -.4	91
-.4 to .4	111
.4 to 1.2	49
1.2 to 2.0	12
2.0 to 2.8	4
2.8 to 3.6	1
GT 3.6	1
Total	292


American 5B-225 Distribution Profile - 041
(1986, 1987, 1988, 1989, 1990, 1993, 1995, 1996)
Frequency
120
100
80
60
40
20
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

Rockwell R250	Year 2006								
250 CFH	Control Group-Installed Year								
Code: 057	1985	1988	1989	1990	1991	1995			
Sample Plan	Single	Single	Single	Single	Single	Single			
Sample Size	32	80	80	80	80	50			
Original Population	53	725	654	566	804	331			
# of Slow Failures	9	3	2	4	8	6			
# of Fast Failures	0	2	1	2	4	1			
Total Failures:	9	5	3	6	12	7			
Accept Level	5	10	10	10	10	7			
Reject Level	6	11	11	11	11	8			
Pass / Fail?	Fail	Pass	Pass	Pass	Fail	Pass			
If Failed - Remove By:	7/1/2008	NA	NA	NA	7/1/2008	NA			
Statistical Data:									
Mean (Average Proof)	-0.525	0.110625	-0.14375	-0.11875	0.033125	-0.093			
Median	-0.075	0.2	0.025	0	0.275	0.25			
Standard Deviation	1.868931	1.122404	1.10119	1.207188	1.421154	1.386892			
Sample Variance	3.492903	1.259791	1.212619	1.457302	2.01968	1.92347			
Skewness	-0.47116	-0.70755	-0.56632	-1.52476	-0.63963	-1.11269			
Minimum	-3.85	-4.25	-4.2	-5.9	-3.55	-4			
Maximum	2	2.9	2.6	2.4	3.2	2.3			
Count	32	80	80	80	80	50			
Confidence Level(95.0%)	0.673821	0.249779	0.245058	0.268646	0.316262	0.39415			

Year 2006 Meter Code 057 Rockwell R250

Code & Year:	1985
Data Range	Number
LT -3.6	1
-3.6 to -2.8	5
-2.8 to -.2	3
-.2 to -1.2	1
-1.2 to -.4	4
-.4 to .4	5
.4 to 1.2	8
1.2 to 2.0	5
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	1988
Data Range	Number
LT -3.6	1
-3.6 to -2.8	0
-2.8 to -.2	2
-.2 to -1.2	4
-1.2 to -.4	12
-.4 to .4	28
.4 to 1.2	24
1.2 to 2.0	7
2.0 to 2.8	1
2.8 to 3.6	1
GT 3.6	0
Total	80

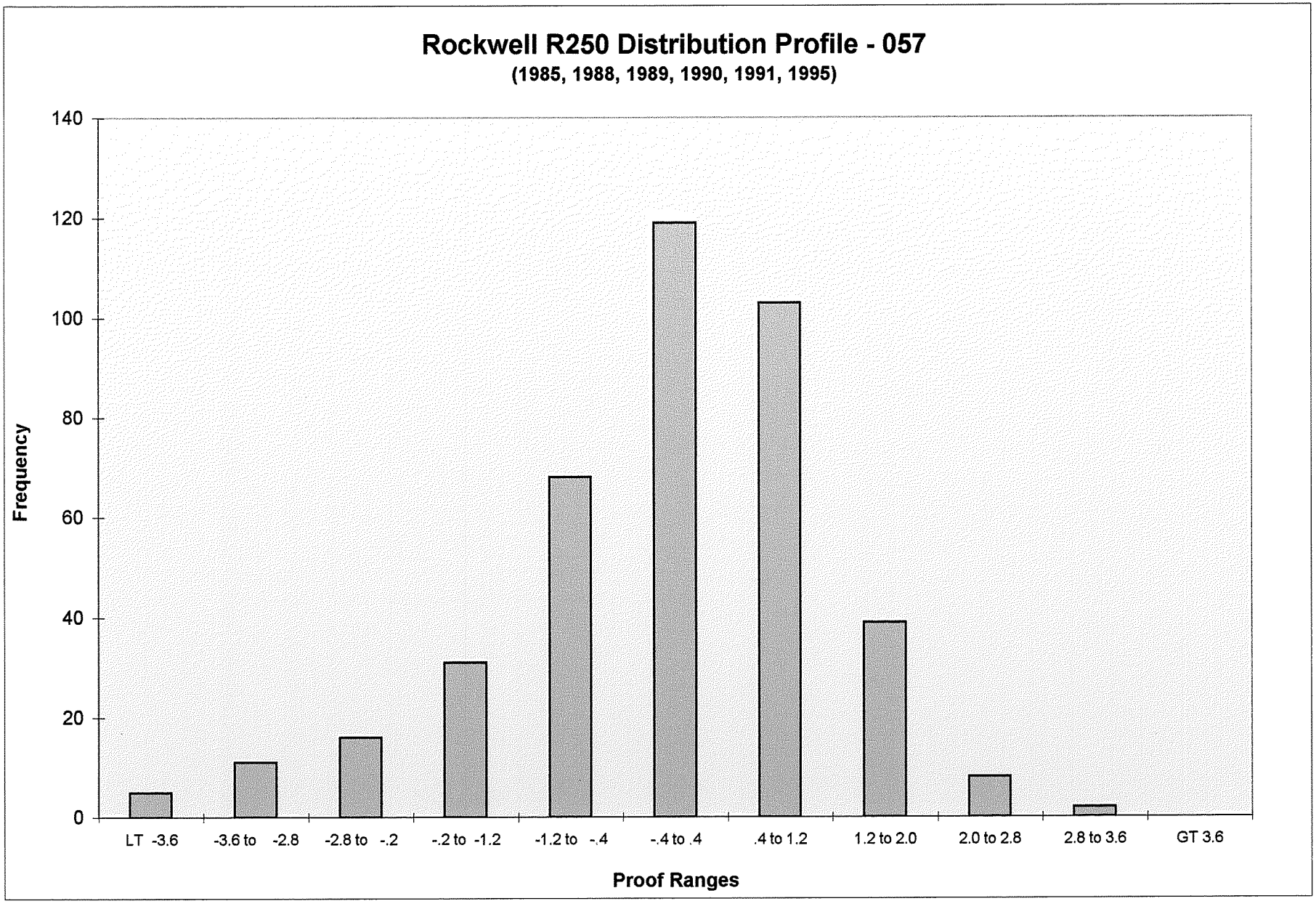
Code & Year:	1989
Data Range	Number
LT -3.6	1
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	12
-1.2 to -.4	16
-.4 to .4	26
.4 to 1.2	16
1.2 to 2.0	7
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1990
Data Range	Number
LT -3.6	1
-3.6 to -2.8	0
-2.8 to -.2	3
-.2 to -1.2	8
-1.2 to -.4	14
-.4 to .4	29
.4 to 1.2	19
1.2 to 2.0	4
2.0 to 2.8	2
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1991
Data Range	Number
LT -3.6	0
-3.6 to -2.8	4
-2.8 to -.2	4
-.2 to -1.2	3
-1.2 to -.4	19
-.4 to .4	14
.4 to 1.2	20
1.2 to 2.0	12
2.0 to 2.8	3
2.8 to 3.6	1
GT 3.6	0
Total	80

Code & Year:	1995
Data Range	Number
LT -3.6	1
-3.6 to -2.8	2
-2.8 to -.2	3
-.2 to -1.2	3
-1.2 to -.4	3
-.4 to .4	17
.4 to 1.2	16
1.2 to 2.0	4
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year:	Total
Data Range	Number
LT -3.6	5
-3.6 to -2.8	11
-2.8 to -.2	16
-.2 to -1.2	31
-1.2 to -.4	68
-.4 to .4	119
.4 to 1.2	103
1.2 to 2.0	39
2.0 to 2.8	8
2.8 to 3.6	2
GT 3.6	0
Total	402


Rockwell R250 Distribution Profile - 057
(1985, 1988, 1989, 1990, 1991, 1995)
Frequency
140
120
100
80
60
40
20
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

American AC250	Year 2006																
250 CFH	Control Group-Installed Year																
Code: 078	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	2000	2002	2004
Sample Plan	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced
Sample Size	32	80	80	80	80	80	50	32	32	50	80	80	80	80	80	50	80
Original Population	1061	4600	3962	4547	3532	5020	2965	182	762	2475	4835	9884	9143	6980	5962	2581	4149
# of Slow Failures	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
# of Fast Failures	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Failures:	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Accept Level	5	10	10	10	10	10	7	5	5	7	10	10	10	10	10	7	10
Reject Level	8	13	13	13	13	13	10	8	8	10	13	13	13	13	13	10	13
Pass / Fail?	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
If Failed - Remove By:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Statistical Data:																	
Mean (Average Proof)	0.046875	-0.105	-0.49563	-0.43563	-0.645	-0.41813	-0.738	-0.5125	0.023438	-0.124	-0.14563	-0.13938	0.0725	-0.11375	-0.12875	-0.177	0.09125
Median	-0.1	-0.2	-0.425	-0.45	-0.6	-0.35	-0.775	-0.475	0.1	-0.125	-0.125	-0.125	0.1	-0.1	-0.1	-0.125	0.1
Standard Deviation	1.087905	0.569399	0.425098	0.479002	0.434188	0.525263	0.540933	0.608939	0.50593	0.434041	0.483277	0.519779	0.518084	0.46904	0.39792	0.467648	0.5277
Sample Variance	1.183538	0.324215	0.180708	0.229443	0.188519	0.275902	0.292608	0.370806	0.255965	0.188392	0.233557	0.27017	0.268411	0.219998	0.15834	0.218695	1.370109
Skewness	3.834182	0.940436	-0.40709	0.060713	-0.34409	-0.08929	0.149452	0.249437	-0.92483	0.16303	-0.4314	0.111815	-0.01188	-0.57585	0.744019	0.025122	-0.00691
Minimum	-2	-1.5	-1.85	-1.3	-1.7	-1.6	-1.85	-1.8	-1.6	-0.85	-2.05	-1.55	-1.1	-1.9	-1.1	-1.3	-1.25
Maximum	5.4	2.25	0.45	0.7	0.45	0.85	0.65	1.05	0.75	0.75	0.9	1.75	1.35	0.9	1.25	0.8	1.6
Count	32	80	80	80	80	80	50	32	32	50	80	80	80	80	80	50	80
Confidence Level(95.0%)	0.392232	0.126714	0.094601	0.106597	0.096624	0.116892	0.153731	0.219546	0.182407	0.123353	0.107548	0.115671	0.115294	0.10438	0.088553	0.132904	0.117434

Year 2006

Meter Code 078 American AC250

Code & Year:	1985
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	3
-.4 to .4	24
.4 to 1.2	3
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	1
Total	32

Code & Year:	1986
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	20
-.4 to .4	50
.4 to 1.2	7
1.2 to 2.0	1
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1987
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	37
-.4 to .4	39
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1988
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	4
-1.2 to -.4	39
-.4 to .4	34
.4 to 1.2	3
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1989
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	9
-1.2 to -.4	45
-.4 to .4	25
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1990
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	6
-1.2 to -.4	31
-.4 to .4	41
.4 to 1.2	2
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1991
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	9
-1.2 to -.4	24
-.4 to .4	16
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year:	1992
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	4
-1.2 to -.4	13
-.4 to .4	13
.4 to 1.2	2
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	1993
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	4
-.4 to .4	20
.4 to 1.2	7
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	1994
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	14
-.4 to .4	31
.4 to 1.2	5
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Year 2006

Meter Code 078 American AC250

Code & Year:	1995
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	0
-1.2 to -.4	21
-.4 to .4	48
.4 to 1.2	10
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1996
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	17
-.4 to .4	53
.4 to 1.2	7
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	1997
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	13
-.4 to .4	47
.4 to 1.2	19
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

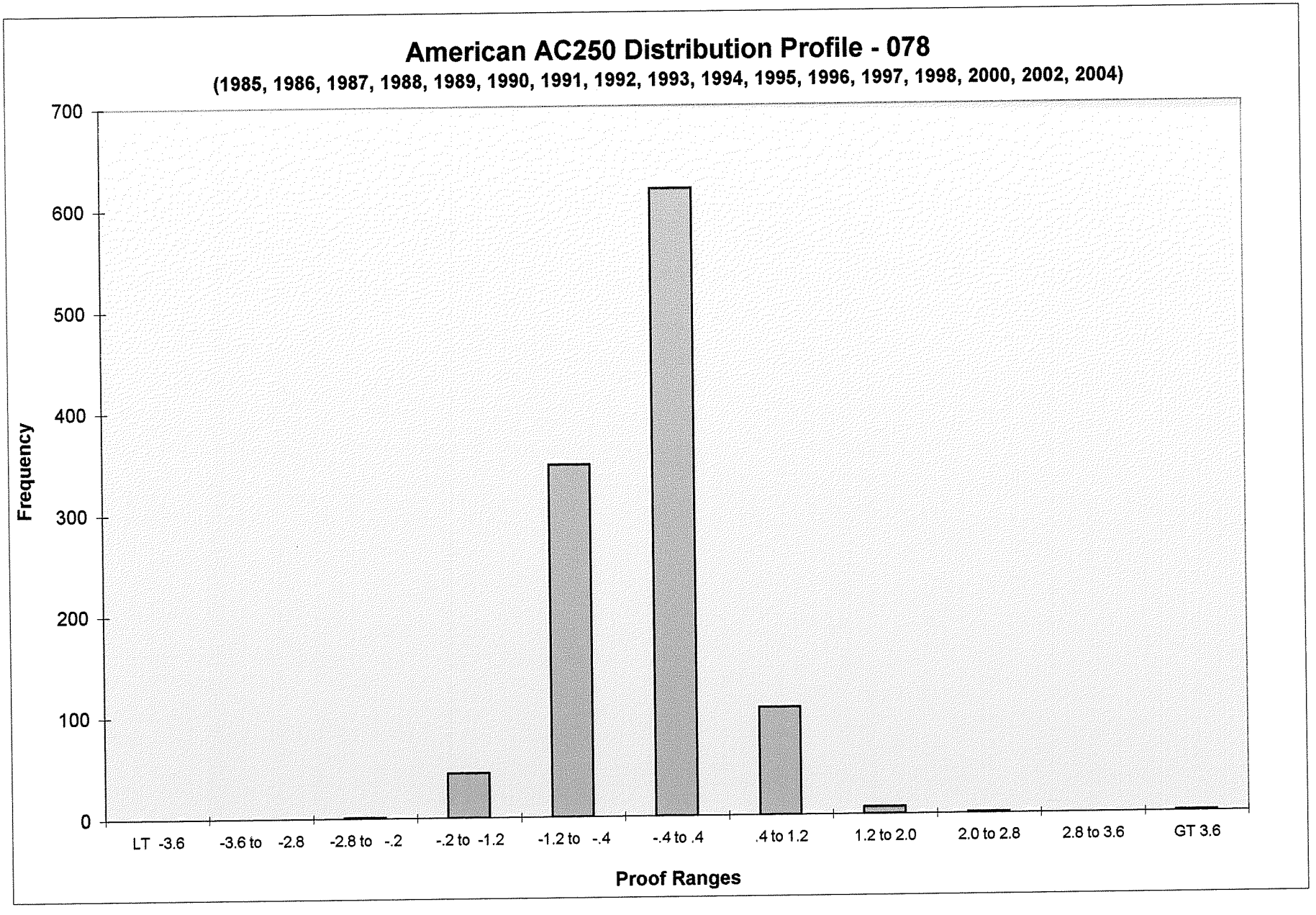
Code & Year:	1998
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	17
-.4 to .4	50
.4 to 1.2	12
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	2000
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	22
-.4 to .4	51
.4 to 1.2	6
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	15
-.4 to .4	27
.4 to 1.2	7
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year:	2004
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	12
-.4 to .4	50
.4 to 1.2	13
1.2 to 2.0	3
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	80

Code & Year:	Totals
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	44
-1.2 to -.4	347
-.4 to .4	619
.4 to 1.2	106
1.2 to 2.0	7
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	1
Total	1126


American AC250 Distribution Profile - 078
(1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 2000, 2002, 2004)
Frequency
700
600
500
400
300
200
100
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

Rockwell R200	Year 2006								
200 CFH	Control Group-Installed Year								
Code: 079	1985	1996	1997						
Sample Plan	Single	Single	Single						
Sample Size	50	50	32						
Original Population	354	308	36						
# of Slow Failures	0	0	0						
# of Fast Failures	1	0	0						
Total Failures:	1	0	0						
Accept Level	7	7	5						
Reject Level	8	8	6						
Pass/ Fail?	Pass	Pass	Pass						
If Failed - Remove By:	NA	NA	NA						
Statistical Data:									
Mean (Average Proof)	0.665	-0.224	-0.28594						
Median	0.6	-0.3	-0.275						
Standard Deviation	0.732012	0.507921	0.560563						
Sample Variance	0.535842	0.257984	0.314231						
Skewness	1.016439	0.776839	0.186127						
Minimum	-1.25	-1.4	-1.5						
Maximum	3.6	1.3	1.05						
Count	50	50	32						
Confidence Level(95.0%)	0.208036	0.14435	0.202105						

Year 2006

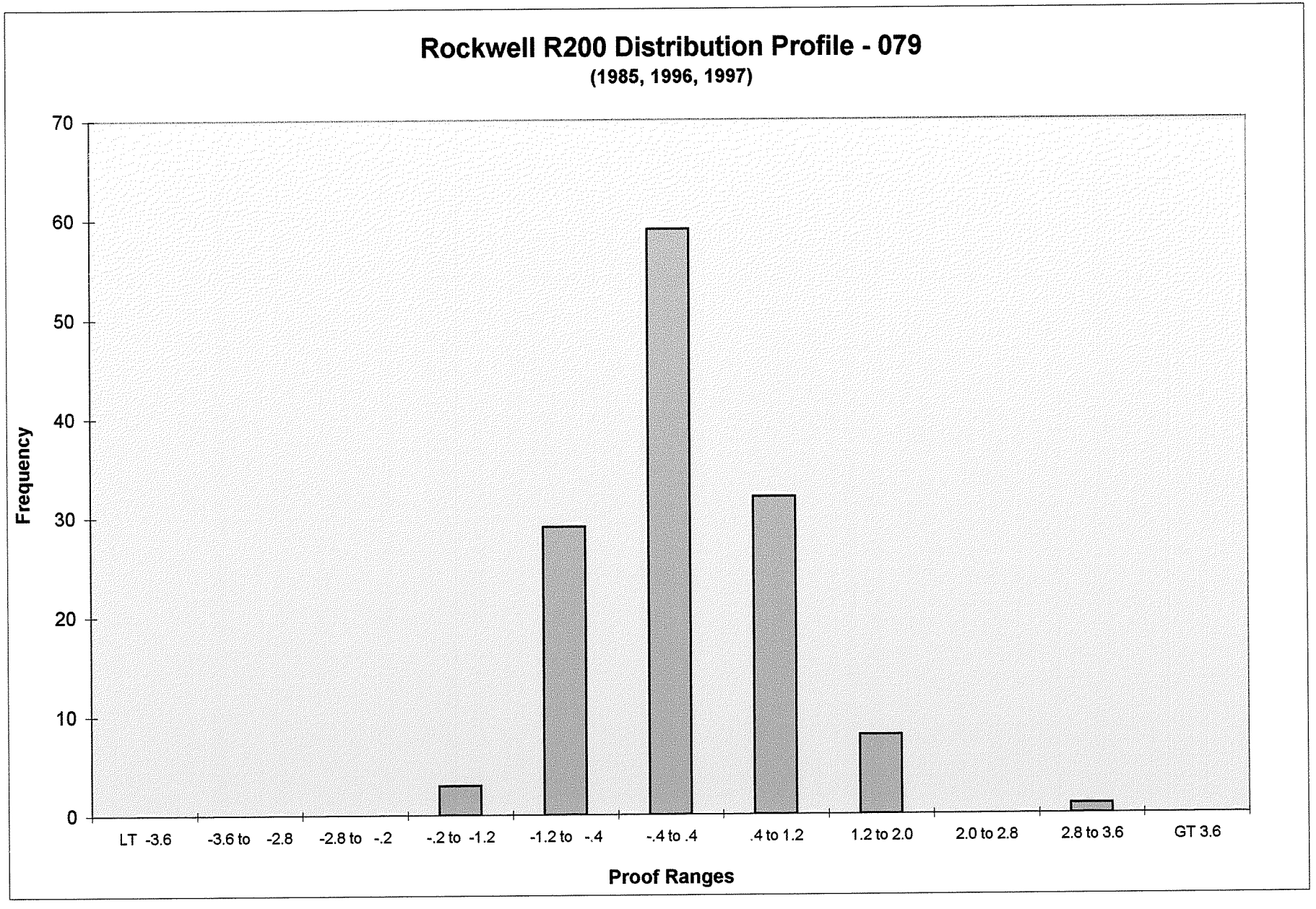
Meter Code 079 Rockwell R200

Code & Year:	1985
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	1
-.4 to .4	16
.4 to 1.2	24
1.2 to 2.0	7
2.0 to 2.8	0
2.8 to 3.6	1
GT 3.6	0
Total	50

Code & Year:	1996
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	15
-.4 to .4	29
.4 to 1.2	4
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year:	1997
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	13
-.4 to .4	14
.4 to 1.2	4
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	Total
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	29
-.4 to .4	59
.4 to 1.2	32
1.2 to 2.0	8
2.0 to 2.8	0
2.8 to 3.6	1
GT 3.6	0
Total	132


Rockwell R200 Distribution Profile - 079
(1985, 1996, 1997)
Frequency
70
60
50
40
30
20
10
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

American AL1000
1000 CFH
Code: 014

Test Year 2006

	Control Group-Installed Year							
	1996	1997	1998	1999	2000	2001	2002	2004
Sample Plan	Single	Single	Single	Single	Single	Single	Single	Single
Sample Size	*13	20	32	20	32	50	13	50
Original Population	67	95	163	129	209	310	74	455
# of Slow Failures	0	0	0	1	1	1	1	2
# of Fast Failures	1	0	0	0	0	0	0	0
Total Failures:	1	0	0	1	1	1	1	2
Accept Level	2	3	5	3	5	7	2	7
Reject Level	3	4	6	4	6	8	3	8
Pass / Fail?	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
If Failed - Remove By:	Exhausted	NA	NA	NA	NA	NA	NA	NA
Statistical Data:								
Mean (Average Proof)	0.25625	-0.2025	0.01875	-0.315	-0.20469	-0.1	-1.08462	-0.664
Median	0.2	-0.025	0	-0.175	-0.125	0.075	-1.05	-0.5
Standard Deviation	0.936726	0.658442	0.763032	0.810312	0.886763	1.049538	0.754538	0.72182
Sample Variance	0.877455	0.433546	0.582218	0.656605	0.786348	1.101531	0.569327	0.521024
Skewness	0.940048	-0.04099	-0.08609	-1.82315	-1.61586	-0.22783	-0.3865	-0.75654
Minimum	-1.1	-1.45	-1.5	-2.9	-3.45	-2.75	-2.55	-2.7
Maximum	2.15	1.25	1.65	0.7	1.25	1.95	0	0.45
Count	8	20	32	20	32	50	13	50
Confidence Level(95.0%)	0.783122	0.30816	0.275102	0.379238	0.319712	0.298275	0.455962	0.205139

* Control group in 10th year of service - maximum service period - all meters to be removed/tested. Sample size based on population was used to determine if group passed/failed in it's last year of service.

Year 2006

Meter Code 014 American AL1000

Code & Year: 1996	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	1
-.4 to .4	3
.4 to 1.2	3
1.2 to 2.0	0
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year: 1997	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	6
-.4 to .4	11
.4 to 1.2	1
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	20

Code & Year: 1998	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	5
-.4 to .4	15
.4 to 1.2	7
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year: 1999	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	1
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	6
-.4 to .4	9
.4 to 1.2	3
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	20

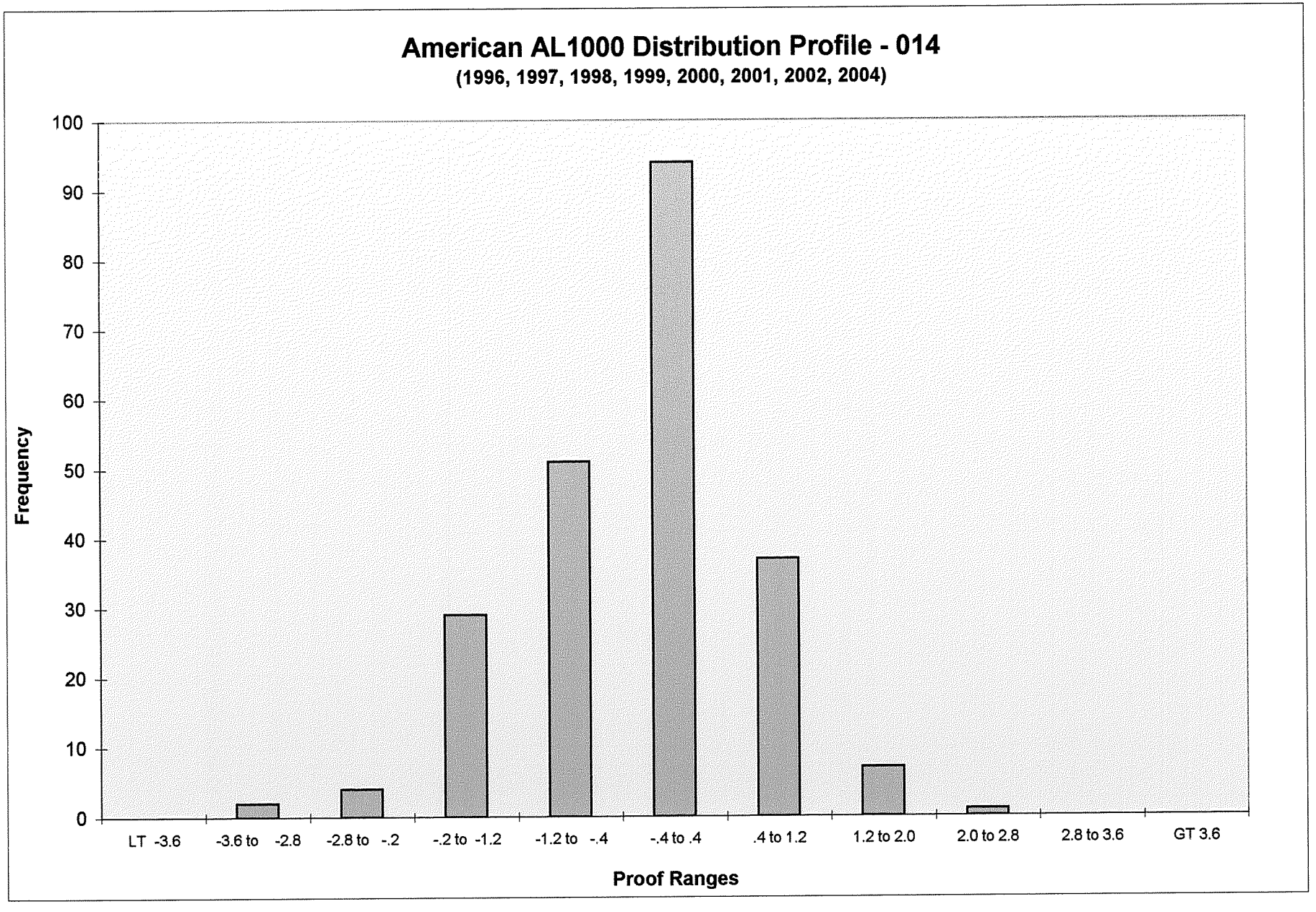
Code & Year: 2000	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	1
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	6
-.4 to .4	16
.4 to 1.2	6
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year: 2001	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	7
-1.2 to -.4	10
-.4 to .4	14
.4 to 1.2	15
1.2 to 2.0	3
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year: 2002	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	5
-1.2 to -.4	3
-.4 to .4	4
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	13

Code & Year: 2004	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	2
-.2 to -1.2	10
-1.2 to -.4	14
-.4 to .4	22
.4 to 1.2	2
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year: Total	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	2
-2.8 to -.2	4
-.2 to -1.2	29
-1.2 to -.4	51
-.4 to .4	94
.4 to 1.2	37
1.2 to 2.0	7
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	225


American AL1000 Distribution Profile - 014
(1996, 1997, 1998, 1999, 2000, 2001, 2002, 2004)
Frequency
100
90
80
70
60
50
40
30
20
10
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

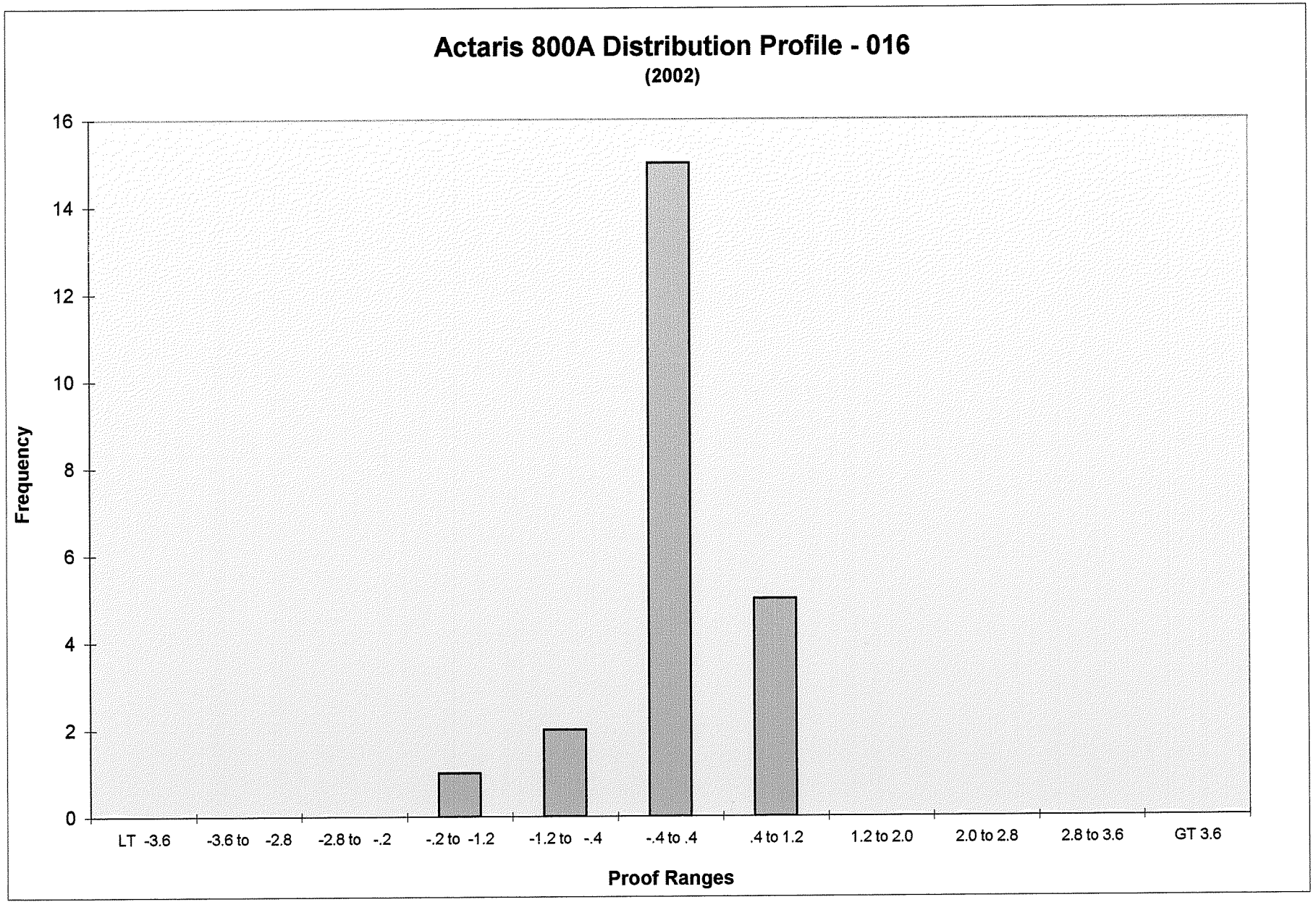
Actaris 800A	Test Year 2006								
800 CFH	Control Group-Installed Year								
Code 016	2002								
Sample Plan	Single								
Sample Size	20								
Original Population	119								
# of Slow Failures	0								
# of Fast Failures	0								
Total Failures:	0								
Acept Level	3								
Reject Level	4								
Pass / Fail ?	Pass								
If Failed - Remove By:	NA								
Statistical Data:									
Mean (Average Proof)	0.05								
Median	0.05								
Standard Deviation	0.585347								
Sample Variance	0.342632								
Skewness	-1.19994								
Minimum	-1.7								
Maximum	0.95								
Count	20								
Confidence Level(95.0%)	0.273951								

Year 2006

Meter Code 016 Actaris 800A

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	2
-.4 to .4	12
.4 to 1.2	5
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	20

Code & Year:	Total
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	2
-.4 to .4	12
.4 to 1.2	5
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	20


Actaris 800A Distribution Profile - 016
(2002)
Frequency
16
14
12
10
8
6
4
2
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

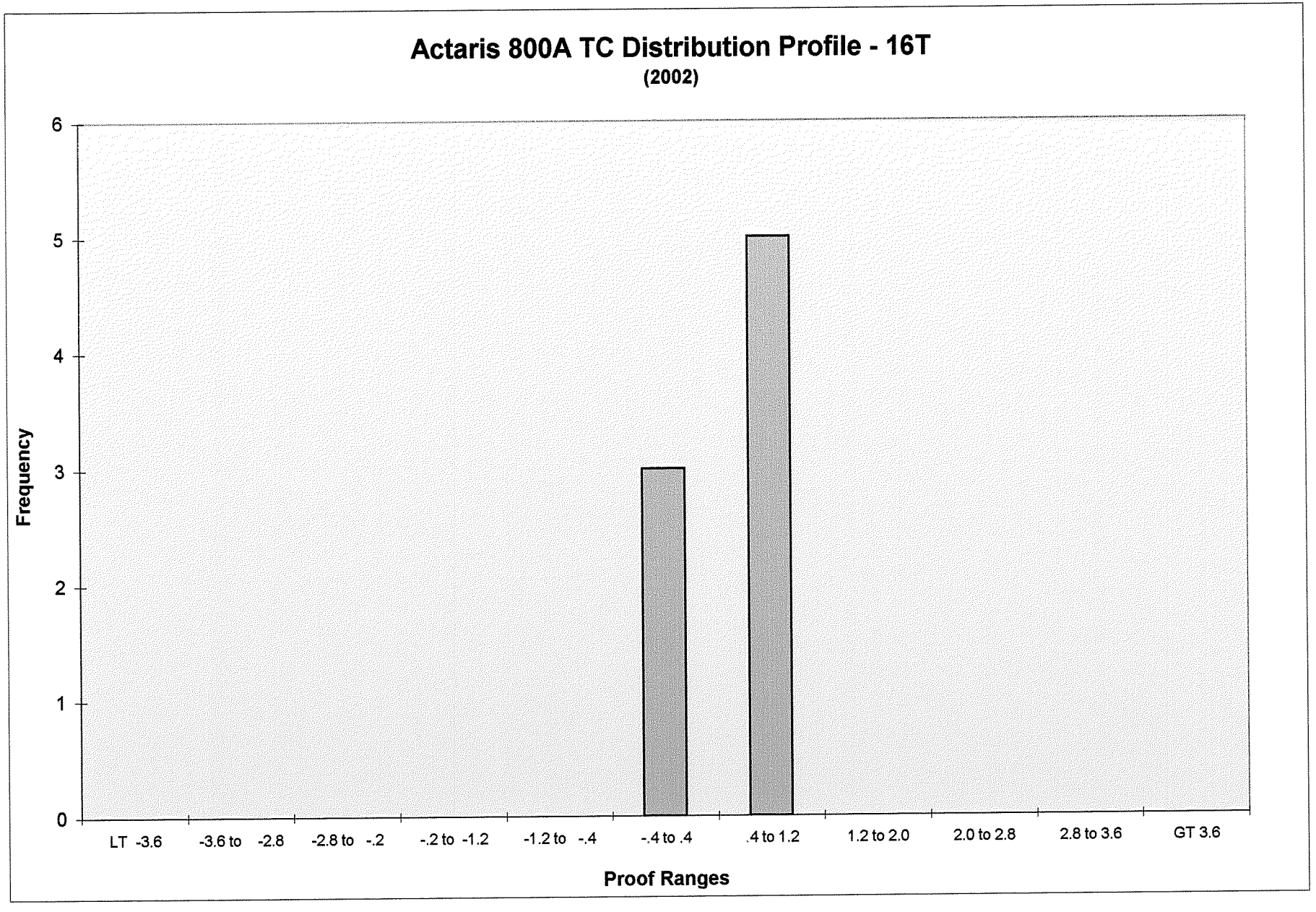
Actaris 800A	Test Year 2006								
800 CFH	Control Group-Installed Year								
Code 16T	2002								
Sample Plan	Single								
Sample Size	8								
Original Population	16								
# of Slow Failures	0								
# of Fast Failures	0								
Total Failures:	0								
Acept Level	1								
Reject Level	2								
Pass / Fail ?	Pass								
If Failed - Remove By:	NA								
Statistical Data:									
Mean (Average Proof)	0.48125								
Median	0.5								
Standard Deviation	0.240442								
Sample Variance	0.057813								
Skewness	-0.18579								
Minimum	0.1								
Maximum	0.8								
Count	8								
Confidence Level(95.0%)	0.201015								

Year 2006

Meter Code 16T Actaris 800A

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	0
-.4 to .4	3
.4 to 1.2	5
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year:	Total
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	0
-.4 to .4	3
.4 to 1.2	5
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8


Actaris 800A TC Distribution Profile - 16T
(2002)
Frequency
0
1
2
3
4
5
6
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

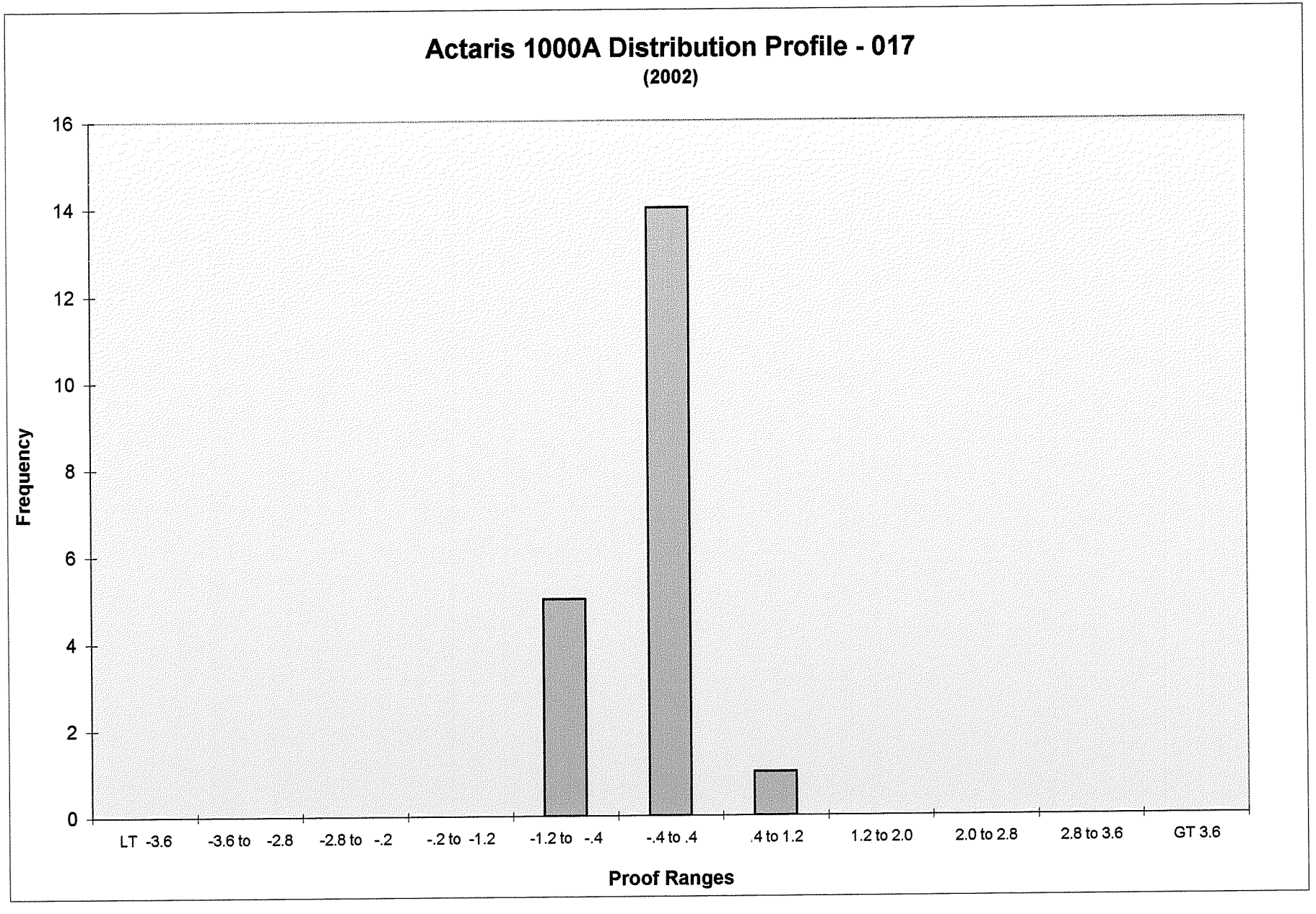
Actaris 1000A	Test Year 2006								
1000 CFH	Control Group-Installed Year								
Code 017	2002								
Sample Plan	Single								
Sample Size	20								
Original Population	126								
# of Slow Failures	0								
# of Fast Failures	0								
Total Failures:	0								
Accept Level	3								
Reject Level	4								
Pass / Fail ?	Pass								
If Failed - Remove By:	NA								
Statistical Data:									
Mean (Average Proof)	-0.12								
Median	-0.125								
Standard Deviation	0.375359								
Sample Variance	0.140895								
Skewness	0.250488								
Minimum	-0.85								
Maximum	0.75								
Count	20								
Confidence Level(95.0%)	0.175674								

Year 2006

Meter Code 017 Actaris 1000A

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	5
-.4 to .4	14
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	20

Code & Year:	Total
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	5
-.4 to .4	14
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	20


Actaris 1000A Distribution Profile - 017
(2002)
Frequency
16
14
12
10
8
6
4
2
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

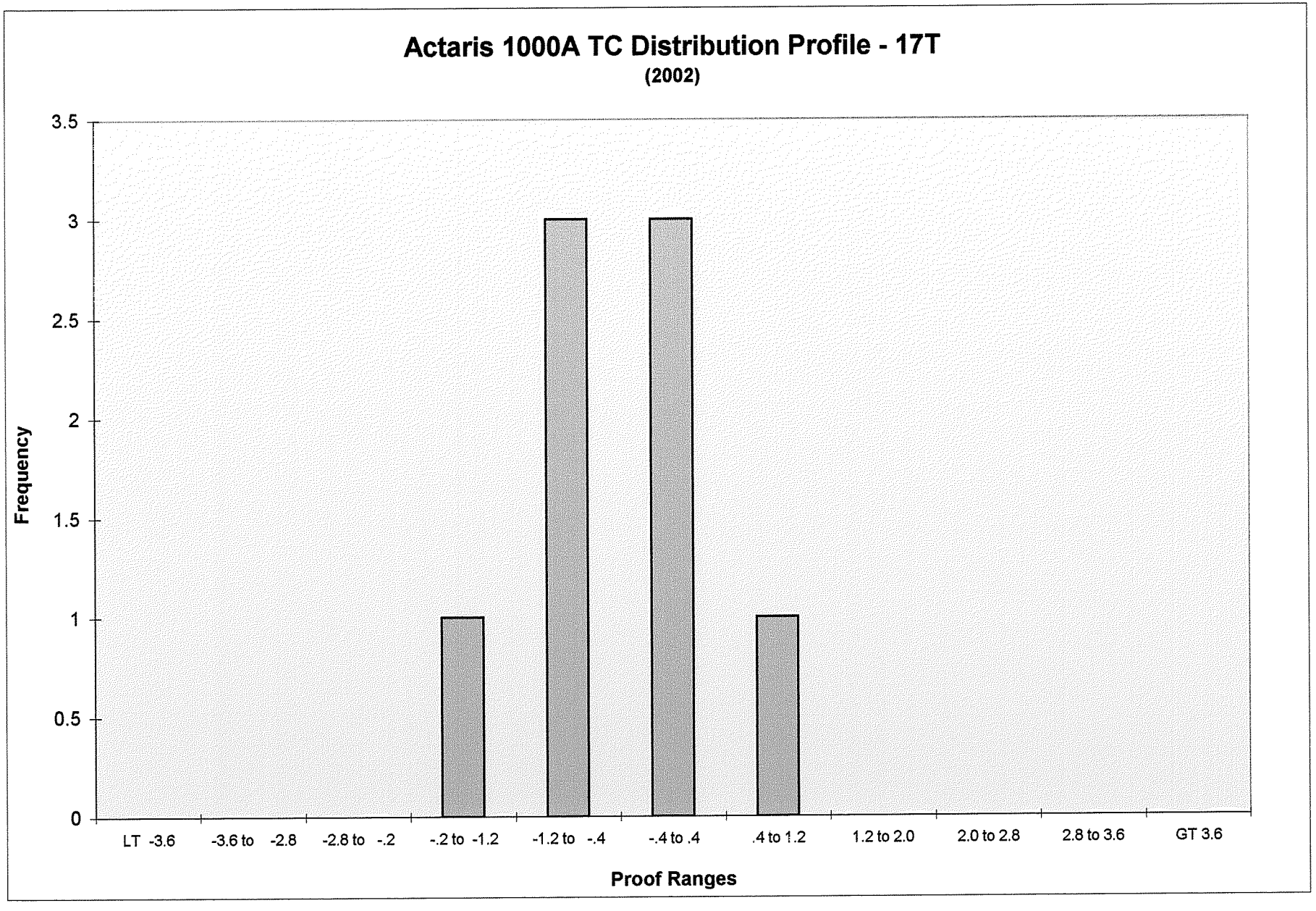
Actaris 1000A	Test Year 2006								
1000 CFH	Control Group-Installed Year								
Code 17T	2002								
Sample Plan	Single								
Sample Size	8								
Original Population	16								
# of Slow Failures	0								
# of Fast Failures	0								
Total Failures:	0								
Accept Level	1								
Reject Level	2								
Pass / Fail ?	Pass								
If Failed - Remove By:	NA								
Statistical Data:									
Mean (Average Proof)	-0.425								
Median	-0.45								
Standard Deviation	0.827216								
Sample Variance	0.684286								
Skewness	-0.52103								
Minimum	-1.9								
Maximum	0.65								
Count	8								
Confidence Level(95.0%)	0.69157								

Year 2006

Meter Code 17T Actaris 1000A

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	3
-.4 to .4	3
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year:	Total
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	3
-.4 to .4	3
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8


Actaris 1000A TC Distribution Profile - 17T
(2002)
Frequency
3.5
3
2.5
2
1.5
1
0.5
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

American AL 1400 Test Year 2006

1400 CFH

Code: 019

	Control Group-Installed Year							
	1996	1997	1998	1999	2000	2001	2002	2004
Sample Plan	Single	Single	Single	Single	Single	Single	Single	Single
Sample Size	2*	2	2	2	2	8	8	8
Original Population	11	7	11	14	10	30	33	46
# of Slow Failures	0	0	0	0	0	0	0	0
# of Fast Failures	0	0	0	0	0	0	0	0
Total Failures:	0	0	0	0	0	0	0	0
Accept Level	0	0	0	0	0	1	1	1
Reject Level	1	1	1	1	1	2	2	2
Pass / Fail?	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
If Failed - Remove By:	Exhausted**	NA	NA	NA	NA	NA	NA	NA
Statistical Data:								
Mean (Average Proof)	-0.48	-1.525	-0.95	0.425	-0.325	-0.375	0.33125	-0.675
Median	-0.725	-1.525	-0.95	0.425	-0.325	-0.55	0.225	-0.85
Standard Deviation	1.042753	0.671751	0.282843	0.176777	0.671751	0.90396	1.019432	1.040604
Sample Variance	1.087333	0.45125	0.08	0.03125	0.45125	0.817143	1.039241	1.082857
Skewness	0.298556	NA	NA	NA	NA	0.984306	0.439745	1.53928
Minimum	-1.9	-2	-1.15	0.3	-0.8	-1.45	-0.9	-1.65
Maximum	1.1	-1.05	-0.75	0.55	0.15	1.35	1.9	1.55
Count	10	2	2	2	2	8	8	8
Confidence Level(95.0%)	0.74594	6.035447	2.541241	1.588276	6.035447	0.755729	0.852266	0.869967

* Control group in 10th year of service - maximum service period - all meters to be tested - Single Sampling Table for Normal Inspection Level used to determine sample size.

** One (1) remaining meter is loacted inside a vacant building - No Access - The meter will be classified as a "Prior" meter and continued attempts will be made to remove the meter.

Year 2006 Meter Code 019 American AL 1400

Code & Year: *1996	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	1
-.4 to .4	0
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	2

Code & Year: 1997	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	1
-.4 to .4	0
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	2

Code & Year: 1998	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	2
-.4 to .4	0
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	2

Code & Year: 1999	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	0
-.4 to .4	1
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	2

Code & Year: 2000	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	1
-.4 to .4	1
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	2

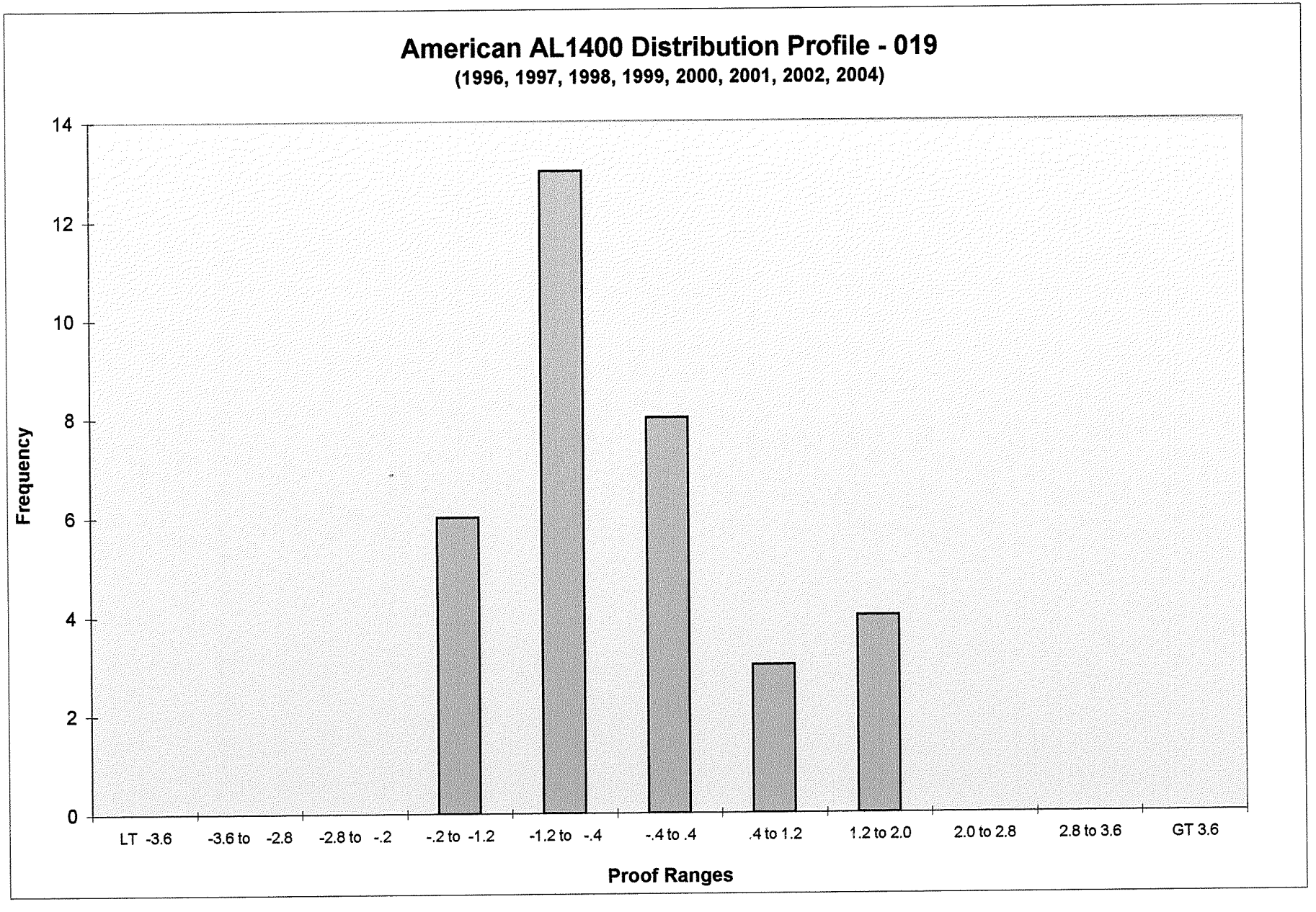
Code & Year: 2001	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	1
-1.2 to -.4	4
-.4 to .4	1
.4 to 1.2	1
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year: 2002	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	2
-.4 to .4	3
.4 to 1.2	1
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year: 2004	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	2
-.4 to .4	2
.4 to 1.2	0
1.2 to 2.0	1
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year: Total	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	6
-1.2 to -.4	13
-.4 to .4	8
.4 to 1.2	3
1.2 to 2.0	4
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	34

* All Eleven (11) Meters In Polulation Used In This Chart and History Graph


American AL1400 Distribution Profile - 019
(1996, 1997, 1998, 1999, 2000, 2001, 2002, 2004)
Frequency
0
2
4
6
8
10
12
14
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

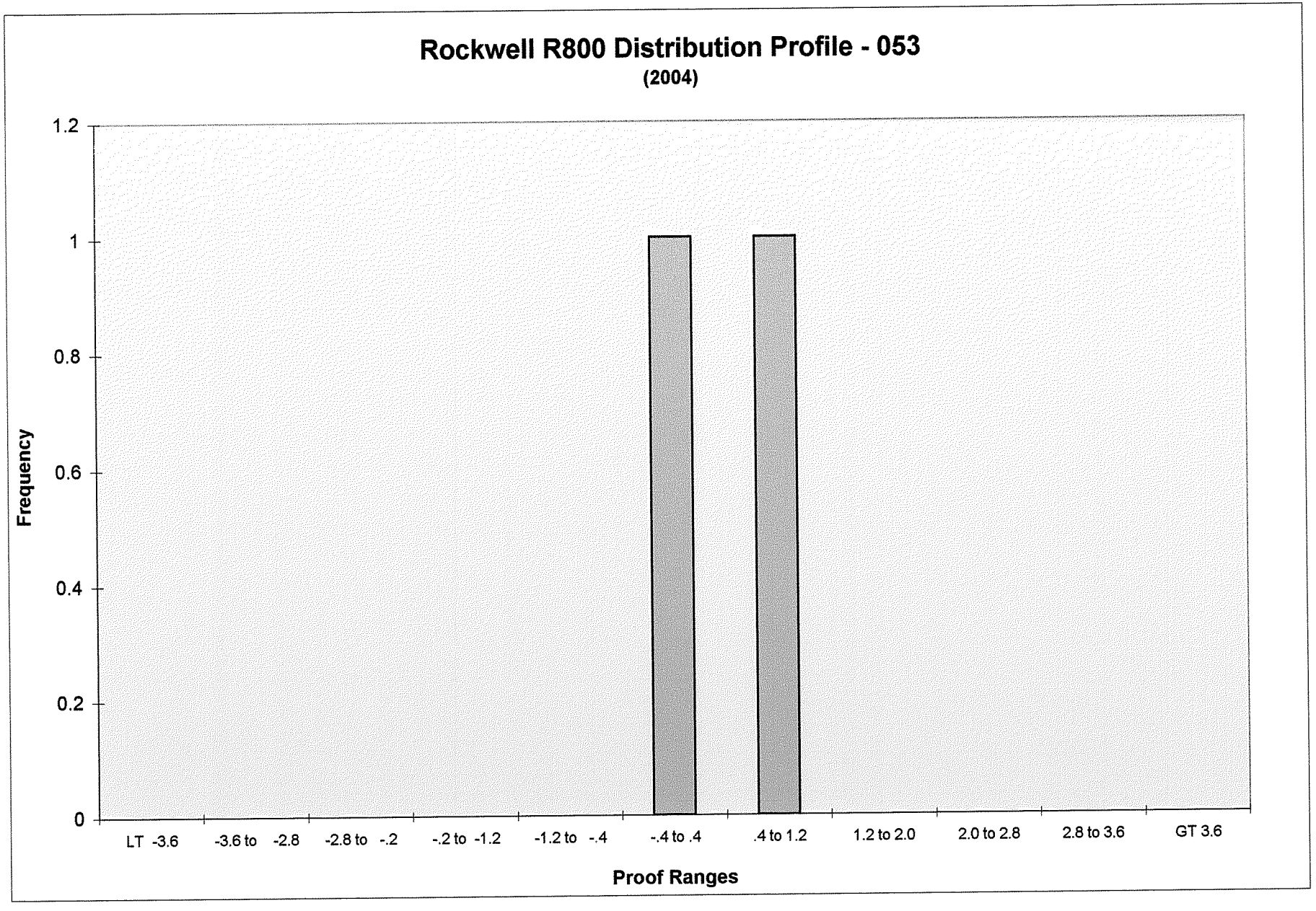
Rockwell R800	Year 2006								
800 CFH	Control Group-Installed Year								
Code: 053	2004								
Sample Plan	Single								
Sample Size	2								
Original Population	3								
# of Slow Failures	0								
# of Fast Failures	0								
Total Failures:	0								
Accept Level	0								
Reject Level	1								
Pass / Fail?	Pass								
If Failed - Remove By:	Exhausted								
Statistical Data:									
Mean (Average Proof)	0.2								
Median	0.2								
Standard Deviation	0.707107								
Sample Variance	0.5								
Skewness	NA								
Minimum	-0.3								
Maximum	0.7								
Count	2								
Confidence Level(95.0%)	6.353102								

Year 2006

Meter Code 053 Rockwell R800

Code & Year:	2004
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	0
-.4 to .4	1
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	2

Code & Year:	Total
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	0
-.4 to .4	1
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	2


Rockwell R800 Distribution Profile - 053
(2004)
Frequency
1.2
1
0.8
0.6
0.4
0.2
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

Rockwell #3 Emco	Year 2006								
1200 CFH	Control Group-Installed Year								
Code: 056	1997	1999	2000	2001	2002	2004			
Sample Plan	Single	Single	Single	Single	Single	Single			
Sample Size	8	13	13	8	13	20			
Original Population	28	56	61	50	73	138			
# of Slow Failures	0	0	0	0	0	0			
# of Fast Failures	0	0	0	1	0	0			
Total Failures:	0	0	0	1	0	0			
Accept Level	1	2	2	1	2	3			
Reject Level	2	3	3	2	3	4			
Pass / Fail?	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**			
If Failed - Remove By:	NA	NA	NA	NA	NA	NA			
Statistical Data:									
Mean (Average Proof)	-0.85625	-0.95385	-1.11154	-0.69375	-0.60769	-0.2425			
Median	-0.95	-1.05	-1.15	-1.025	-0.7	-0.3			
Standard Deviation	0.540131	0.583974	0.408327	1.268981	0.758795	0.573143			
Sample Variance	0.291741	0.341026	0.166731	1.610313	0.575769	0.328493			
Skewness	1.058785	0.378606	0.536906	1.857523	0.764903	1.309274			
Minimum	-1.4	-1.9	-1.7	-2	-1.75	-1.2			
Maximum	0.2	0.25	-0.3	2.15	0.9	1.5			
Count	8	13	13	8	13	20			
Confidence Level(95.0%)	0.45156	0.352892	0.246749	1.060895	0.458535	0.268239			

Year 2006 Meter Code 056 Rockwell #3 Emco

Code & Year:	1997
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	4
-.4 to .4	1
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year:	1999
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	4
-1.2 to -.4	6
-.4 to .4	3
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	13

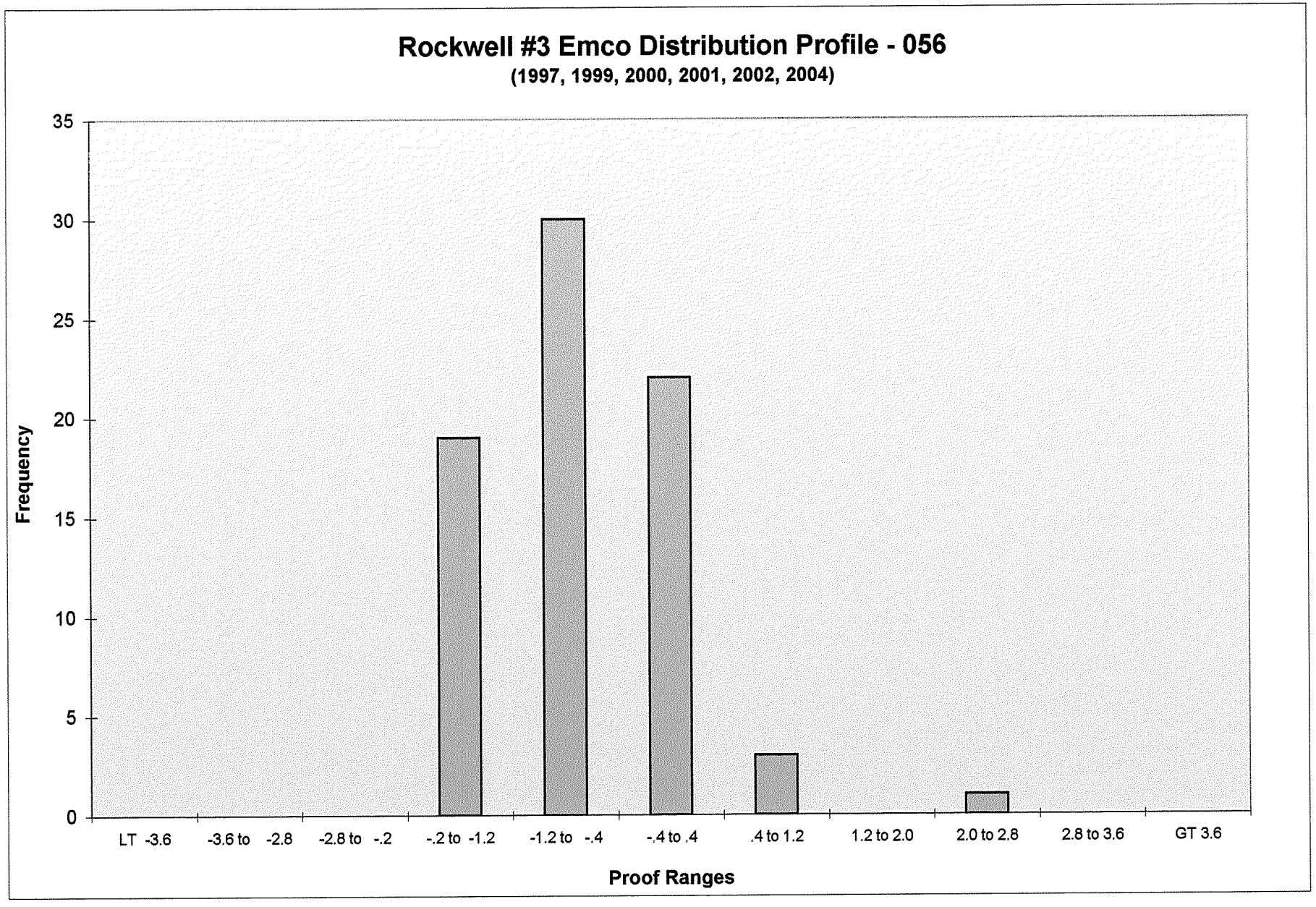
Code & Year:	2000
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	6
-1.2 to -.4	6
-.4 to .4	1
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	13

Code & Year:	2001
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	4
-1.2 to -.4	2
-.4 to .4	1
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	6
-.4 to .4	3
.4 to 1.2	2
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	13

Code & Year:	2004
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	6
-.4 to .4	13
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	20

Code & Year:	Total
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	19
-1.2 to -.4	30
-.4 to .4	22
.4 to 1.2	3
1.2 to 2.0	0
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	75


Rockwell #3 Emco Distribution Profile - 056
(1997, 1999, 2000, 2001, 2002, 2004)
Frequency
35
30
25
20
15
10
5
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

Rockwell R750	Year 2006							
750 CFH	Control Group-Installed Year							
Code: 058	1996	1997	1998	1999	2000	2001	2002	2004
Sample Plan	Single	Single	Single	Single	Single	Single	Single	Single
Sample Size	13*	20	32	20	32	50	32	50
Original Population	70*	117	169	137	210	330	163	358
# of Slow Failures	0	0	2	1	1	1	0	0
# of Fast Failures	0	0	0	1	1	2	1	0
Total Failures:	0	0	2	2	2	3	1	0
Accept Level	2	3	5	3	5	7	5	7
Reject Level	3	4	6	4	6	8	6	8
Pass / Fail?	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
If Failed - Remove By:	Exhausted	NA	NA	NA	NA	NA	NA	NA
Statistical Data:								
Mean (Average Proof)	0.5	0.125	-0.09063	0.1775	0.33125	0.202	0.314063	0.06
Median	0.4	0.025	0.025	0.2	0.325	0.15	0.225	-0.05
Standard Deviation	0.525595	0.719923	1.012537	1.052625	0.918603	1.212602	0.847314	0.769177
Sample Variance	0.27625	0.518289	1.025232	1.10802	0.843831	1.470404	0.717941	0.591633
Skewness	0.642002	0.240557	-1.03704	-0.65675	-0.294	2.694045	0.705716	0.28155
Minimum	-0.3	-1.1	-3.2	-2.75	-2.45	-2.1	-1.05	-1.5
Maximum	1.55	1.45	1.7	2.35	2.55	6.45	2.6	1.75
Count	13	20	32	20	32	50	32	50
Confidence Level(95.0%)	0.317614	0.336934	0.365059	0.492644	0.331192	0.344618	0.305489	0.218598

* Control group in 10th year of service - maximum service period - all meters to be removed/tested. Sample size based on population was used to determine if group passed/failed in it's last year of service.

Year 2006 Meter Code 058 Rockwell R750

Code & Year: 1996	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	0
-.4 to .4	7
.4 to 1.2	4
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	13

Code & Year: 1997	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	4
-.4 to .4	10
.4 to 1.2	4
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	20

Code & Year: 1998	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	1
-2.8 to -.2	1
-.2 to -1.2	1
-1.2 to -.4	5
-.4 to .4	16
.4 to 1.2	6
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year: 1999	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	0
-1.2 to -.4	3
-.4 to .4	8
.4 to 1.2	6
1.2 to 2.0	1
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	20

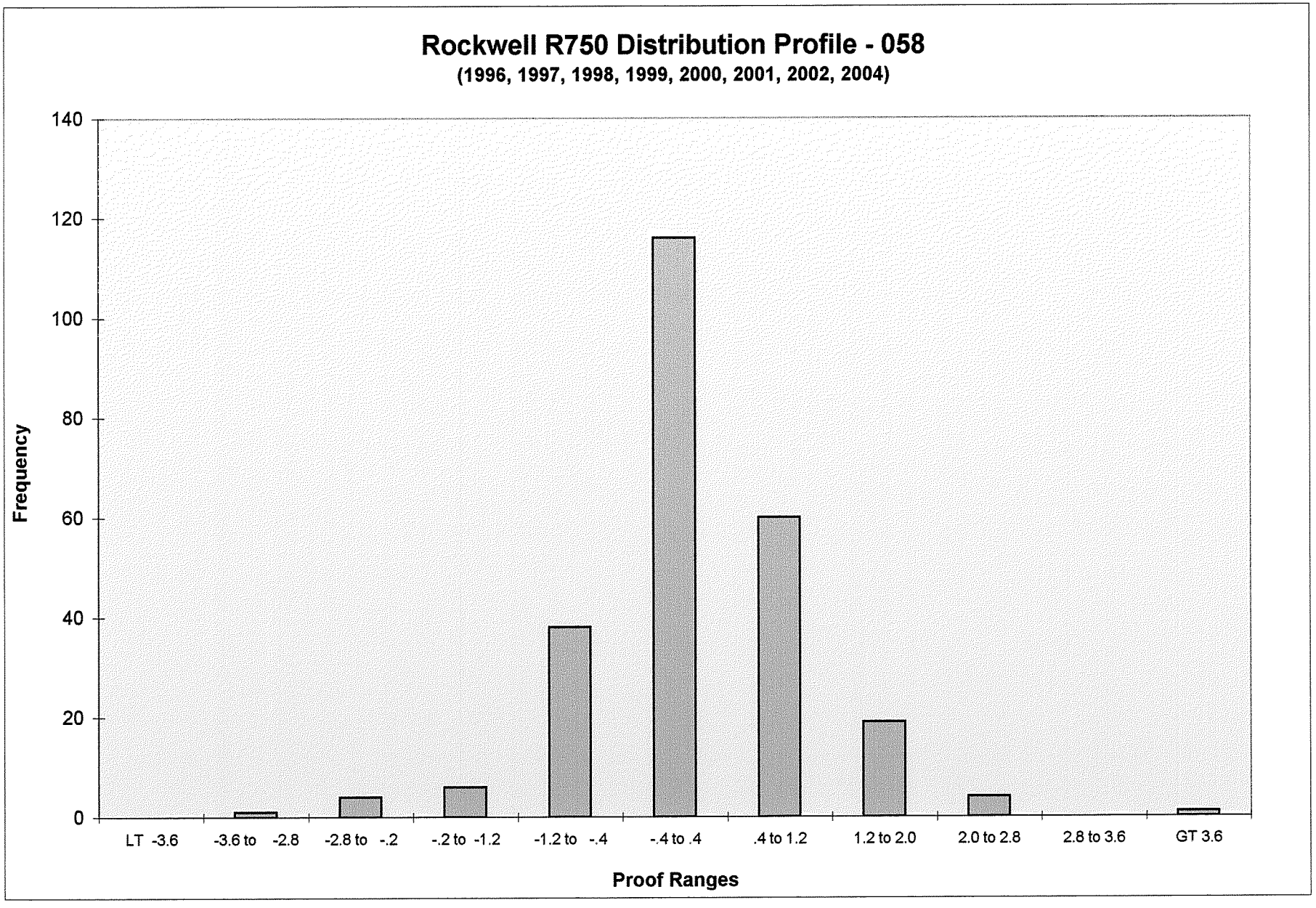
Code & Year: 2000	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	0
-1.2 to -.4	4
-.4 to .4	14
.4 to 1.2	10
1.2 to 2.0	2
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year: 2001	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	3
-1.2 to -.4	8
-.4 to .4	19
.4 to 1.2	16
1.2 to 2.0	1
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	1
Total	50

Code & Year: 2002	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	5
-.4 to .4	15
.4 to 1.2	7
1.2 to 2.0	4
2.0 to 2.8	1
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year: 2004	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	9
-.4 to .4	27
.4 to 1.2	7
1.2 to 2.0	5
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	50

Code & Year: Total	
Data Range	Number
LT -3.6	0
-3.6 to -2.8	1
-2.8 to -.2	4
-.2 to -1.2	6
-1.2 to -.4	38
-.4 to .4	116
.4 to 1.2	60
1.2 to 2.0	19
2.0 to 2.8	4
2.8 to 3.6	0
GT 3.6	1
Total	249


Rockwell R750 Distribution Profile - 058
(1996, 1997, 1998, 1999, 2000, 2001, 2002, 2004)
Frequency
140
120
100
80
60
40
20
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

American AL 800	Year 2006							
800 CFH	Control Group-Installed Year							
Code: 076	1996	1997	1998	1999	2000	2001	2002	2004
Sample Plan	Single	Single	Single	Single	Single	Single	Single	Single
Sample Size	2*	2*	2*	2*	8	13	8	32
Original Population	9**	10	13	6	40	73	44	195
# of Slow Failures	0	0	0	0	0	0	0	1
# of Fast Failures	0	0	0	0	0	0	0	0
Total Failures:	0	0	0	0	0	0	0	1
Accept Level	0	0	0	0	1	2	1	5
Reject Level	1	1	1	1	2	3	2	6
Pass / Fail?	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
If Failed - Remove By:	Exhausted	NA	NA	NA	NA	NA	NA	NA
Statistical Data:								
Mean (Average Proof)	0.4	0.675	-0.125	0.225	0.0125	0.338462	-0.34375	-0.58906
Median	0.4	0.675	-0.125	0.225	-0.025	0.3	-0.125	-0.55
Standard Deviation	0.565685	0.459619	0.176777	0.388909	0.478651	0.673038	0.829129	0.606382
Sample Variance	0.32	0.21125	0.03125	0.15125	0.229107	0.452981	0.687455	0.367699
Skewness	NA	NA	NA	NA	-0.03762	-0.71147	-0.68727	-0.29903
Minimum	0	0.35	-0.25	-0.05	-0.85	-1.2	-1.7	-2.05
Maximum	0.8	1	0	0.5	0.85	1.3	0.75	0.45
Count	2	2	2	2	8	13	8	32
Confidence Level(95.0%)	5.082482	4.129517	1.588276	3.494206	0.400163	0.406713	0.693169	0.218624

* American National Standard states: When no sampling plan is available for a given combination of AQL and code letter, the tables direct the user to a different letter. The sample size to be used is given by the new code letter, not the original letter.

** Control group in 10th year of service - maximum service period - all meters to be removed/tested. Sample size based on population was used to determine if group passed/failed in it's last year of service.

Year 2006 Meter Code 076 American AL800

Code & Year:	1996
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	0
-.4 to .4	1
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	2

Code & Year:	1997
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	0
-.4 to .4	1
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	2

Code & Year:	1998
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	0
-.4 to .4	2
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	2

Code & Year:	1999
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	0
-.4 to .4	1
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	2

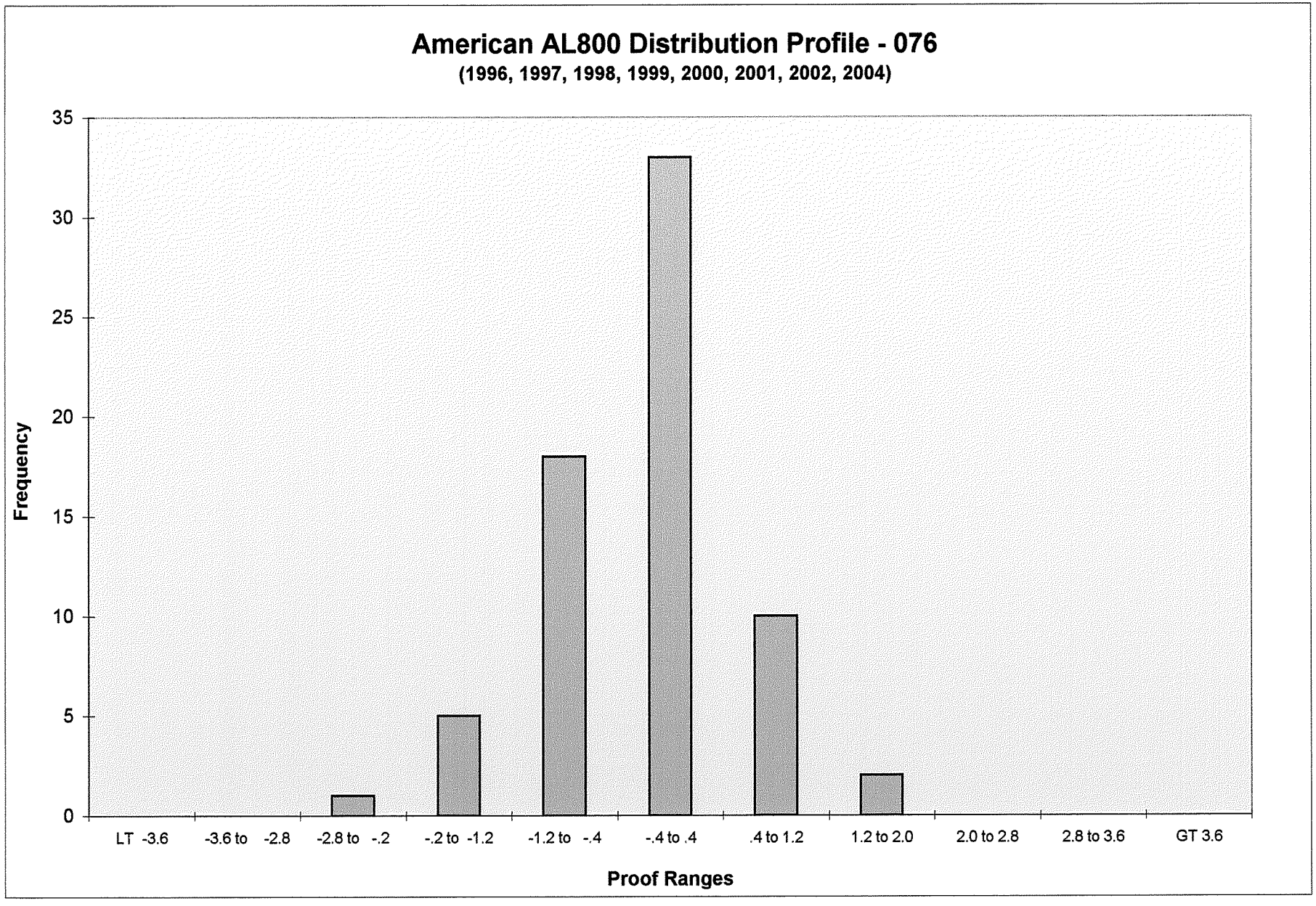
Code & Year:	2000
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	1
-.4 to .4	6
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year:	2001
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	1
-.4 to .4	6
.4 to 1.2	4
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	13

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	2
-1.2 to -.4	1
-.4 to .4	4
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year:	2004
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	3
-1.2 to -.4	15
-.4 to .4	12
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	Totals
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	5
-1.2 to -.4	18
-.4 to .4	33
.4 to 1.2	10
1.2 to 2.0	2
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	69


American AL800 Distribution Profile - 076
(1996, 1997, 1998, 1999, 2000, 2001, 2002, 2004)
Frequency
35
30
25
20
15
10
5
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

Rockwell #4 Emco
2250 CFH
Code: 028

Year 2006

	Control Group-installed Year								
	2001	2002	2003	2004					
Sample Plan	Single	Single	Single	Single					
Sample Size	13*	20	20	32					
Original Population	70	95	130	218					
# of Slow Failures	1	0	1	0					
# of Fast Failures	0	0	0	0					
Total Failures:	1	0	1	0					
Accept Level	2	3	3	5					
Reject Level	3	4	4	6					
Pass / Fail?	**Pass**	**Pass**	**Pass**	**Pass**					
If Failed - Remove By:	Exhausted	NA	NA	NA					
Statistical Data:									
Mean (Average Proof)	-1.01154	-0.6925	-0.7525	-0.52344					
Median	-0.8	-0.6	-0.375	-0.375					
Standard Deviation	0.625218	0.595879	0.91039	0.584612					
Sample Variance	0.390897	0.355072	0.828809	0.341772					
Skewness	-0.45394	-0.58725	-1.6908	-0.5742					
Minimum	-2.3	-1.95	-3.45	-2					
Maximum	0.1	0.4	0.2	0.65					
Count	13	20	20	32					
Confidence Level(95.0%)	0.377815	0.27888	0.426075	0.210775					

* Control group in 5th year of service - maximum service period - all meters to be removed/tested. Sample size based on population was used to dertermine if group passed/failed in it's last year of service.

Year 2006 Meter Code 028 Rockwell #4 Emco

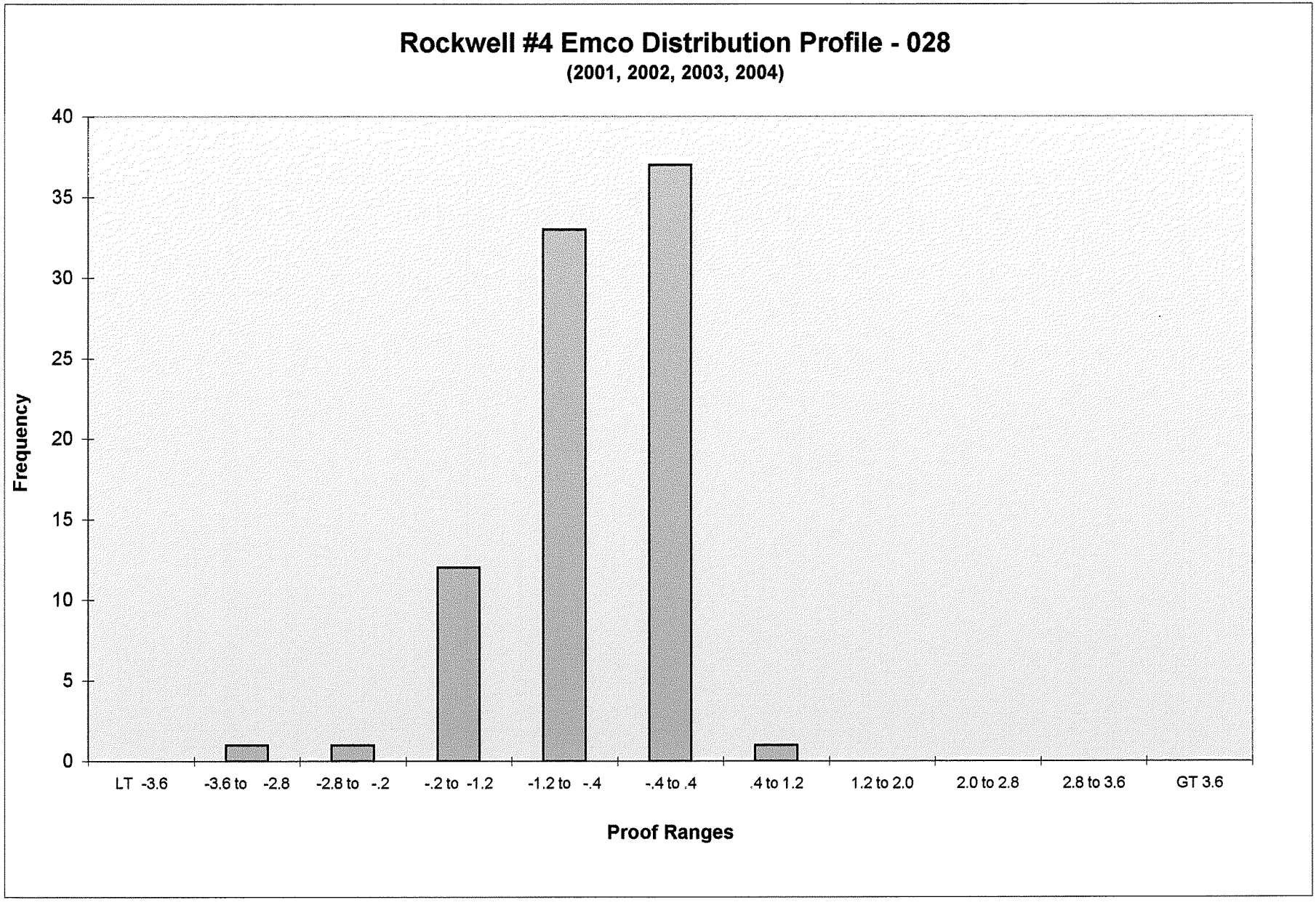
Code & Year:	2001
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	1
-.2 to -1.2	3
-1.2 to -.4	7
-.4 to .4	2
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	13

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	9
-.4 to .4	8
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	20

Code & Year:	2003
Data Range	Number
LT -3.6	0
-3.6 to -2.8	1
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	5
-.4 to .4	11
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	20

Code & Year:	2004
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	3
-1.2 to -.4	12
-.4 to .4	16
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32

Code & Year:	Total
Data Range	Number
LT -3.6	0
-3.6 to -2.8	1
-2.8 to -.2	1
-.2 to -1.2	12
-1.2 to -.4	33
-.4 to .4	37
.4 to 1.2	1
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	85


Rockwell #4 Emco Distribution Profile - 028
(2001, 2002, 2003, 2004)
Frequency
40
35
30
25
20
15
10
5
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

Rockwell 10Emco	Year 2006								
5000 CFH	Control Group-Installed Year								
Code: 061	2001	2002	2003	2004					
Sample Plan	Single	Single	Single	Single					
Sample Size	8*	8	8	8					
Original Population	24	27	33	44					
# of Slow Failures	0	0	0	0					
# of Fast Failures	0	0	0	0					
Total Failures:	0	0	0	0					
Accept Level	1	1	1	1					
Reject Level	2	2	2	2					
Pass / Fail?	Pass	Pass	Pass	Pass					
If Failed - Remove By:	Exhausted	NA	NA	NA					
Statistical Data:									
Mean (Average Proof)	-0.7	-0.6375	-0.53125	-0.275					
Median	-0.775	-0.65	-0.425	-0.2					
Standard Deviation	0.37321	0.238672	0.260408	0.486239					
Sample Variance	0.139286	0.056964	0.067813	0.236429					
Skewness	0.332527	-0.15367	-1.1016	-0.52192					
Minimum	-1.2	-1.05	-1	-1.1					
Maximum	-0.1	-0.3	-0.25	0.35					
Count	8	8	8	8					
Confidence Level(95.0%)	0.312011	0.199535	0.217707	0.406506					

* Control group in 5th year of service - maximum service period - all meters to be removed/tested. Sample size based on population was used to dertermine if group passed/failed in it's last year of service.

Year 2006

Meter Code 061 Rockwell 10M Emco

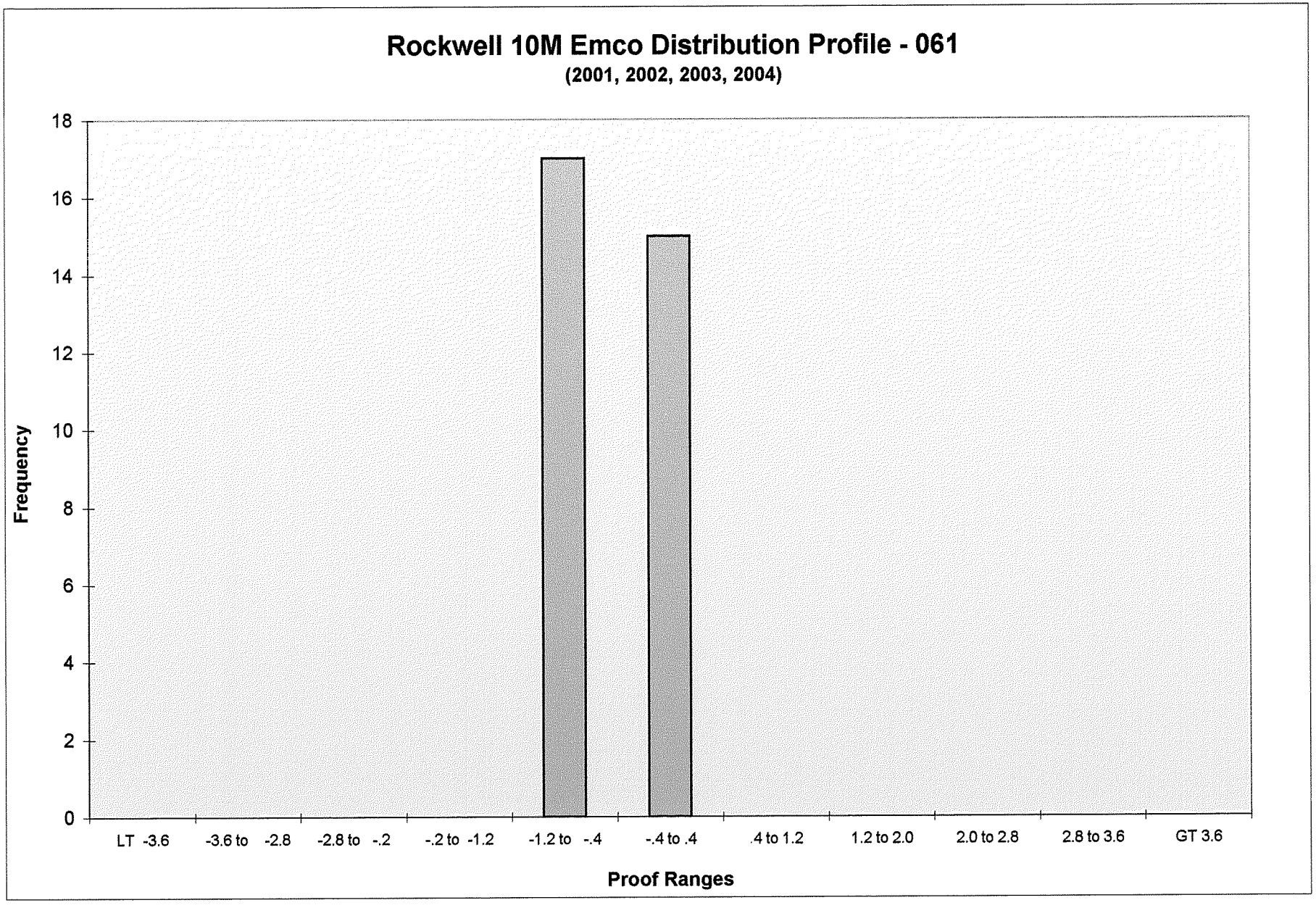
Code & Year:	2001
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	5
-.4 to .4	3
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year:	2002
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	6
-.4 to .4	2
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year:	2003
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	4
-.4 to .4	4
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year:	2004
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	2
-.4 to .4	6
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	8

Code & Year:	Totals
Data Range	Number
LT -3.6	0
-3.6 to -2.8	0
-2.8 to -.2	0
-.2 to -1.2	0
-1.2 to -.4	17
-.4 to .4	15
.4 to 1.2	0
1.2 to 2.0	0
2.0 to 2.8	0
2.8 to 3.6	0
GT 3.6	0
Total	32


Rockwell 10M Emco Distribution Profile - 061
(2001, 2002, 2003, 2004)
Frequency
18
16
14
12
10
8
6
4
2
0
LT -3.6
-3.6 to -2.8
-2.8 to -.2
-.2 to -1.2
-1.2 to -.4
-.4 to .4
.4 to 1.2
1.2 to 2.0
2.0 to 2.8
2.8 to 3.6
GT 3.6
Proof Ranges

Louisville Gas & Electric

Regulator Inspection and Replacement Program Report 2006

Year 2006 Regulator Inspection and Replacement Program

I.Progress Summary

During 2006, LG&E inspected or replaced a total of 21,984 gas pressure regulators as part of LG&E's regulator inspection and upgrade program. A total of 9,525 existing Schlumberger B42, National 496, or American 1213B gas pressure regulators remained in service. A total of 8,714 regulators were replaced with Schlumberger B42, National 496 and American 1213B regulators as part of LG&E's program to upgrade and standardize residential gas regulators. An additional 3,745 regulators were replaced as a result of either improper function of the regulator, damage/vandalism, service line replacement, or meter loop repairs. The distribution of the reasons for these regulator replacements is shown in Table 1 below.

Table 1: Year 2006 Regulator Change Reasons

Reason	Quantity
Regulator Replacement Program	8,714
Failed Lockup Test	34
Vent Leaking	108
Leak on Regulator	2
Routine Change During Meter Loop Repair	1,551
Could Not Adjust Pressure	20
Damage/Vandalism	33
Routine Change During Service Renewal	1,030
Test Site	967
Total	**12,459**

For the time period of 2002 – 2006, a total of 63,318 regulator replacements have been made. This total represents 33% of the approximately 190,554 residential regulators that are expected to be replaced over the ten year period of the regulator replacement program.

II. Safety

As part of LG&E's regulator replacement activities, safety inspections were performed and "red-tags" were issued when deficiencies were found. The results of these safety inspections directly associated with LG&E's regulator replacement program are summarized in Table 2 below.

Table 2: Year 2006 Safety Inspection Results

Reason	Quantity
Houseline Leak (includes lines to gas grills, pool heaters, appliance flexible hook-up lines, fireplace, etc.)	26
Furnace Problem (internal leak, not burning correctly)	7
Leak or Not Venting Properly (dryer,range)	1
Water Heater Not Venting	5
Flex Lines/Brass Connectors (not to code)	13

Misc. (trees, bushes around meter, etc.)	4
Total	**56**

Additionally, the following Customer Surveillance Notices were issued to customers to correct outside deficiencies on their meter loop or exposed outside gas piping. The results of these safety inspections directly associated with LG&E's regulator replacement program, are summarized in Table 3 below.

Table 3: Year 2006 Customer Surveillance Notices Issued

Reason	Quantity
Corrosion / Rust On Outside Meter Loop & Associated Piping	552
Gas Meter In Contact With Soil / Pavement	4
Asphalt or Concrete Paving in Contact With Piping Entering Ground	2
Gas Piping Not Properly Supported	127
Meter Not Protected From Vehicular Damage	21
Customer Built Over Service Line / Around Meter	5
Tree / Shrubbery Growing Inside / Against Meter Loop	15
Other (exposed plastic service; shut-off not accessible, etc.)	7
Total	**733**