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MIRAGE A3-002 STRAIN RESPONSES TO GROUND CALIBRATION  
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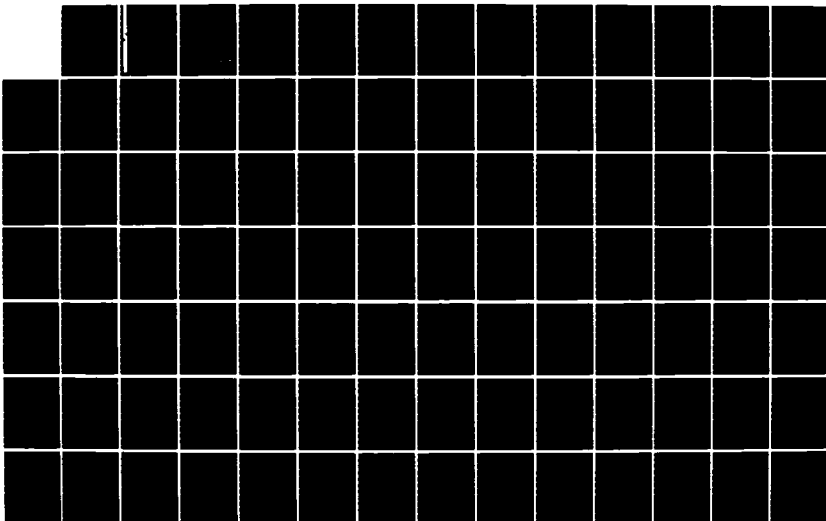
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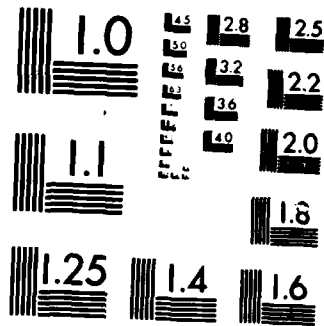
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AD-A165 846

**Structures Technical Memorandum 425**

**MIRAGE A3-002 STRAIN RESPONSES TO GROUND  
CALIBRATION LOADINGS BETWEEN 1978 AND 1985**

by  
**M. G. J. HIGGS**

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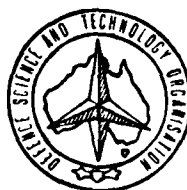
by

M.G.J. HIGGS

SUMMARY

Between 1978 and 1985, ground calibration loads were applied at the main store and Sidewinder hard points on the wings of Mirage A3-002. Strain response measurements are tabulated for the wing and fuselage frame 26.

In general, consistent results were obtained over the measurement period.



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## 1. INTRODUCTION

Prior to flight trials in 1978, (Ref. 1), a calibration of strain gauges fitted to Mirage A3-002 was carried out by measuring responses to ground loads applied at several locations on the Mirage wing. Since 1978, further ground calibrations have been made on the same aircraft. The loading procedure used was similar to that for earlier ground calibrations of other Mirage aircraft (Ref. 2). This Tech. Memo. provides a record of the output of strain gauges fitted to A3-002, and identifies some trends in these outputs. For some gauges, data is given for a seven-year period. Two loading cases are presented:

- (a) loading at the main external store attachment point (denoted as hardpoint H05 on Fig.1);
- (b) loading at the Sidewinder attachment point (H07).

The discussion is restricted to strain gauges fitted to wings and to fuselage frame 26.

## 2. RESULTS

Eleven ground calibrations, (see Table 1), were carried out in the period August 1978 to March 1985. The aircraft was supported on the three fuselage jacking stations. For all load calibrations, strain gauge readings were taken at initial zero load, then at 25, 50, 75 and 100% of the maximum calibrated load, and at 75, 25 and 0% as the load was reduced. The zero reading condition corresponded to the wing just clear of the loading jacks. Of the 24 gauges calibrated initially on 11 August 1978, 15 were recorded after 25 January 1979 and four, all on frame 26, after 8 July 1982. Other strain gauges were added during the seven-year period. Most of the gauges on the wings and frame 26 have been referred to and their locations defined in earlier ARL publications. New locations are defined in Figs 2 to 4. Table 2 provides a complete reference for locations of relevant gauges on the wings and frame 26. Some gauges referred to in the tables are located on other parts of the aircraft (Ref. 3) and are not discussed in this Memo.

It should be noted that:

- (i) the maximum calibrated load (m.c.l.), for the main store loading case was approximately equivalent (in terms of applied bending moment) to a 1.0 g flight load increment;
- (ii) for each strain gauge, the initial zero load strain reading was subtracted from all subsequent strain

responses so that hysteresis effects and strain increments from zero load were clearly shown.

Strain responses against % m.c.l. are given in Tables 3 to 13 for the hardpoint H05 (or "03" series) load cases, and Tables 14 to 22 for the hardpoint H07 (or "06" series) load cases. Most calibrations involved two or three independent "runs" to provide a check on the repeatability of the responses on the day. Strain responses per 1000 kg against % m.c.l. are shown in Tables 23 to 33, for the H05 load cases, and in Tables 34 to 42 for the H07 load cases. These tables indicate linearity of the strain response/load relationship, and also the influence of hysteresis. The consistency of the strain responses for H05 loads (and separately H07 loads) over the full time period was investigated by computing the strain response for a standard mass of 2000 kg. Values for the 100% m.c.l. were averaged for the first two runs (when more than one calibration load run was carried out on a particular day) and the result factored by the ratio of the average load to the standard load. Summaries for the H05 and H07 load cases are shown in Tables 43 and 44 respectively.

### 3. DISCUSSION

Strain responses of many gauges during ground load calibrations carried out in 1978 on A3-002 were somewhat higher than expected considering earlier ground loadings of other strain-gauged Mirage wings. The 1978 responses were more typical of loadings of wings with wing-to-fuselage fairings removed. The results in Tables 43 and 44 show that these higher gauge responses were maintained (with two exceptions) throughout the seven-year period. Firstly, gauge 1.4T had a loss of response (about 15%) after 1978, possibly indicating some disbonding of this gauge from the spar. Secondly, for the load cases 2903 and 2906 carried out in January 1979, many gauges showed reduced response. For those calibrations, special care was taken to tighten the fairing fasteners before loads were applied. Strain responses for 2903 and 2906 are compared with 1978 calibrations in Table 45. Gauges are subdivided into four broad structural areas; namely, frame 26 upper and lower, wing main spar and wing lower panel. For many gauges the differences are statistically significant (at the 5% level), the tightening of the fairings being particularly effective in reducing stresses on the edge of the wing panel inboard of the fasteners. Hence, in considering the consistency of gauge response over the seven-year period, load cases 2903 and 2906 were excluded. The resulting statistics for strain gauge responses to main store and Sidewinder loads applied during the seven-year period are presented in Table 46. It is apparent that the outputs of gauges attached to the upper part of frame 26 are more consistent than those attached to the wing and the lower ("carry-through") part of frame 26. It is evident also that

the variability of strain response of the four gauges recorded over the full seven-year period ( $n=10$  for H05) is not greater than the variability of gauges recorded over the four-year period from 1978 to 1982 ( $n=7$  for H05). Gauge 323.3 on the centre-line of the wing spar shows more variability than other gauges to main store loading, a finding which was reported for this location on the F+W fatigue test wing (Ref. 5). Table 47 consolidates the results of Tables 45 and 46. It is evident that for gauges on frame 26 and the wing main spar, the average long term variability is about twice the short term (1978) variability. For gauges on the upper part of frame 26 (the most consistent group), variability is independent of load case; whereas, for other locations, variability for Sidewinder loading is about twice that for main store loading. This suggests that one source for the variability of strain gauge response is small changes of load transfer between the wing and fuselage.

#### 4. CONCLUSIONS

- a. Strain gauge outputs for the wing and frame 26 have been tabulated for main store and Sidewinder hardpoint loadings carried out between 1978 and 1985.
- b. The response of many gauges was reduced when fairing fasteners were tightened in early 1979, but the original higher response was regained at later calibrations. This suggests that the fairing fasteners were, effectively, in the untightened condition.
- c. Strain responses of gauges on the upper part of frame 26 were more consistent than those on the wing spar and the lower part of frame 26.
- d. For gauges on the upper part of frame 26, variability was independent of load case; whereas, for other locations, variability for Sidewinder loading was about twice that for main store loading.
- e. For loadings at either hardpoint, the long term (4 to 7 years) variability was about twice the short term (4 months) variability.

#### ACKNOWLEDGEMENTS

The consistency of the strain responses reported here indicates the care with which the strain gauges were installed, the quality of the signal conditioning and the magnetic tape recording equipment, and the accuracy of the applied calibration loading. Many staff contributed, and, in particular, the efforts of G. Woodall, D. Smith, N. Watts and R. Bailey are gratefully acknowledged.

## REFERENCES

1. Anderson, B. A. ; Woodall, G. and Sparrow, J. G. Mirage IIIIO (frame 26) flight trials 1978. Instrumentation and flight profiles together with analysis of flight trials data. Aust. Aeronaut. Res. Lab. Struct. Tech. Memo. 314, May 1980.
2. Patching, C. A. and Townshend, P. H. Mirage Stage I fatigue investigation. Static ground calibration of aircraft. Aust. Aeronaut. Res. Lab. Struct. Note 463, August 1980.
3. Grandage, J. M. Ground calibration data for Columbia strain gauges fitted to Mirage IIIIO. Aust. Aeronaut. Res. Lab. Struct. Tech. Memo. [under review.]
4. Grandage, J. M. and Sparrow, J. G. Analysis of F+W Mirage fatigue test strain survey. Annexe 4 to Tripartite Mirage programme report - December 1980, edited by Sparrow, J. G., Aust. Aeronaut. Res. Lab. Struct. Tech. Memo. 326, February 1981.
5. Burgess, P. J. Minutes of the Fatigue Tripartite meeting held at F+W on 3/4 November 1983. Eidgenössisches Flugzeugwerk FWE-SIG P6637 TA 151, 22 February 1984.

TABLE 1

## Load series summary

| (H05)<br>Load series<br>no. | (H07)<br>Load series<br>no. | Date<br>of<br>calibration | Time<br>elapsed<br>since 11/8/78<br>(months) |
|-----------------------------|-----------------------------|---------------------------|----------------------------------------------|
| 2603.03                     | 2606.12                     | 11/ 8/78                  | -                                            |
| 2603.56                     | 2606.45                     | 14/ 8/78                  | -                                            |
| 2703                        | 2706                        | 18/12/78                  | 4                                            |
| 2803                        | -                           | 19/12/78                  | 4                                            |
| 2903                        | 2906                        | 25/ 1/79                  | 5                                            |
| 3403                        | -                           | 10/11/81                  | 39                                           |
| 3503                        | 3506                        | 2/12/81                   | 40                                           |
| 3603                        | 3606                        | 8/ 7/82                   | 47                                           |
| 4103                        | 4106                        | 12/12/84                  | 76                                           |
| 4203                        | 4206                        | 13/ 2/85                  | 78                                           |
| 4303                        | 4306                        | 27/ 3/85                  | 80                                           |

TABLE 2

## Definition of strain gauge locations

| Strain gauge locations                                                | Component                | Reference to location         |
|-----------------------------------------------------------------------|--------------------------|-------------------------------|
| 27.1, 27.2, 27.3, 27.4,<br>27.5                                       | Sides of<br>frame 26     | ARL drawing 54719<br>(Ref. 1) |
| 28.1, 28.2, 28.4, 28.5,<br>28.6, 28.7, 28.8, 28.9,<br>28.10           | Lower<br>frame 26        | ARL drawing 54719<br>(Ref. 1) |
| 35A, 35B, 35C, 36A, 36B                                               | Sides of<br>frame 26     | Fig.2, this report            |
| 37, 38, 39, 40*                                                       | Lower strap,<br>frame 26 | Fig.3, this report            |
| 325.1, 324.1, 324.3,<br>323.1, 323.3, 323.5,<br>1.4, 1.6, 223, 328, 2 | Wings                    | ARL drawing 56234<br>(Ref. 4) |
| 16, 18, 320, 326                                                      | Wings                    | ARL drawing 55005<br>(Ref. 1) |
| 324.4                                                                 | Wings                    | Fig.4, this report            |

\* Note that the locations of gauges 37 and 40 differ from the corresponding locations in the Swiss fatigue test aircraft (see Annexe A to Ref. 5).

TABLE 1

H05 (main store): Load case 2603-3 on 11/8/78

| Load (kg) |     |         | 0           | 624 | 1254 | 1857 | 2488 | 1864 | 633 | 0 |
|-----------|-----|---------|-------------|-----|------|------|------|------|-----|---|
| Ch        | Run | Gauge   | Microstrain |     |      |      |      |      |     |   |
| 5         | 3   | 27.2    | 0           | 57  | 125  | 188  | 255  | 195  | 66  | 0 |
| 6         | 3   | 27.3    | 0           | 47  | 98   | 148  | 202  | 157  | 54  | 0 |
| 7         | 3   | 27.4    | 0           | 63  | 130  | 193  | 260  | 193  | 66  | 0 |
| 8         | 3   | 27.5    | 0           | 8   | 23   | 38   | 52   | 44   | 13  | 0 |
| 9         | 3   | 1.6SB   | 0           | 98  | 197  | 298  | 402  | 306  | 104 | 0 |
| 10        | 3   | 2SB     | 0           | 77  | 155  | 233  | 315  | 239  | 82  | 0 |
| 11        | 3   | 223SB   | 0           | 101 | 203  | 306  | 414  | 316  | 108 | 0 |
| 12        | 3   | 320SB   | 0           | 84  | 174  | 269  | 365  | 280  | 93  | 0 |
| 13        | 3   | 323.3SB | 0           | 111 | 224  | 340  | 459  | 351  | 120 | 0 |
| 14        | 3   | 326SB   | 0           | 86  | 173  | 265  | 359  | 274  | 94  | 0 |
| 15        | 3   | 328SB   | 0           | 88  | 178  | 266  | 359  | 272  | 94  | 0 |
| 16        | 3   | 28.2    | 0           | 68  | 144  | 218  | 294  | 226  | 75  | 0 |
| 17        | 3   | 28.4    | 0           | 56  | 120  | 183  | 249  | 193  | 65  | 0 |
| 18        | 3   | 28.5    | 0           | 57  | 118  | 181  | 245  | 189  | 65  | 0 |
| 19        | 3   | 28.6    | 0           | 62  | 131  | 199  | 271  | 208  | 71  | 0 |
| 20        | 3   | 28.7    | 0           | 72  | 150  | 227  | 307  | 235  | 81  | 0 |
| 21        | 3   | 28.8    | 0           | 59  | 123  | 184  | 249  | 191  | 65  | 0 |
| 22        | 3   | 28.9    | 0           | 34  | 74   | 112  | 151  | 116  | 39  | 0 |
| 23        | 3   | 28.10   | 0           | 31  | 67   | 100  | 134  | 102  | 31  | 0 |
| 24        | 3   | 1.4SB   | 0           | 80  | 165  | 251  | 339  | 259  | 87  | 0 |
| 25        | 3   | 16SB    | 0           | 127 | 258  | 391  | 525  | 400  | 135 | 0 |
| 26        | 3   | 18PT    | 0           | 82  | 172  | 259  | 350  | 266  | 89  | 0 |
| 27        | 3   | 27.1    | 0           | 55  | 113  | 169  | 229  | 175  | 59  | 0 |
| 28        | 3   | 28.1    | 0           | 61  | 127  | 193  | 262  | 200  | 68  | 0 |

TABLE 4

H05 (main store): Load case 2603-56 on 14/8/78

| Load (kg) |     |         | 0           | 630 | 1254 | 1878 | 2499 | 1871 | 628 | 0  |
|-----------|-----|---------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |      |      |      |      |     |    |
| 5         | 5   | 27.2    | 0           | 58  | 123  | 189  | 255  | 195  | 65  | 0  |
|           | 6   |         | 0           | 58  | 123  | 188  | 255  | 194  | 64  | 0  |
| 6         | 5   | 27.3    | 0           | 47  | 98   | 149  | 201  | 156  | 51  | -3 |
|           | 6   |         | -3          | 42  | 93   | 144  | 196  | 150  | 49  | -3 |
| 7         | 5   | 27.4    | 0           | 64  | 128  | 194  | 260  | 192  | 64  | -2 |
|           | 6   |         | -2          | 62  | 127  | 192  | 258  | 191  | 62  | -2 |
| 8         | 5   | 27.5    | 0           | 8   | 23   | 38   | 52   | 44   | 13  | -2 |
|           | 6   |         | -2          | 5   | 20   | 35   | 50   | 42   | 11  | -2 |
| 9         | 5   | 1.6SB   | 0           | 101 | 200  | 305  | 407  | 307  | 103 | -2 |
|           | 6   |         | -2          | 95  | 197  | 300  | 403  | 304  | 102 | -2 |
| 10        | 5   | 2SB     | 0           | 80  | 156  | 237  | 316  | 239  | 81  | -2 |
|           | 6   |         | -2          | 74  | 154  | 233  | 313  | 236  | 80  | -2 |
| 11        | 5   | 223SB   | 0           | 103 | 204  | 311  | 416  | 315  | 106 | -2 |
|           | 6   |         | -2          | 99  | 203  | 307  | 414  | 313  | 106 | -2 |
| 12        | 5   | 320SB   | 0           | 84  | 173  | 270  | 363  | 278  | 91  | 0  |
|           | 6   |         | 0           | 80  | 173  | 268  | 363  | 276  | 92  | 0  |
| 13        | 5   | 323.3SB | 0           | 114 | 226  | 344  | 462  | 350  | 118 | 0  |
|           | 6   |         | 0           | 110 | 226  | 342  | 460  | 350  | 119 | 0  |
| 14        | 5   | 326SB   | 0           | 86  | 172  | 266  | 357  | 271  | 91  | -3 |
|           | 6   |         | -3          | 82  | 171  | 262  | 355  | 269  | 91  | -3 |
| 15        | 5   | 328SB   | 0           | 91  | 178  | 270  | 360  | 272  | 92  | -1 |
|           | 6   |         | -1          | 86  | 176  | 266  | 357  | 269  | 91  | -1 |
| 16        | 5   | 28.2    | 0           | 69  | 142  | 218  | 294  | 225  | 75  | 0  |
|           | 6   |         | 0           | 69  | 144  | 219  | 295  | 227  | 76  | 0  |
| 17        | 5   | 28.4    | 0           | 54  | 114  | 177  | 240  | 185  | 61  | -1 |
|           | 6   |         | -1          | 52  | 113  | 175  | 239  | 184  | 62  | -1 |
| 18        | 5   | 28.5    | 0           | 60  | 119  | 185  | 247  | 190  | 64  | 0  |
|           | 6   |         | 0           | 57  | 119  | 183  | 246  | 189  | 65  | 0  |
| 19        | 5   | 28.6    | 0           | 62  | 129  | 200  | 271  | 208  | 70  | 0  |
|           | 6   |         | 0           | 62  | 130  | 199  | 271  | 208  | 70  | 0  |
| 20        | 5   | 28.7    | 0           | 74  | 152  | 231  | 310  | 238  | 81  | -3 |
|           | 6   |         | -3          | 70  | 148  | 227  | 307  | 235  | 78  | -3 |

TABLE 4 (Continued)

H05 (main store): Load case 2603-56 on 14 5.75

| Load (kg) |     |       | 0           | 630 | 1254 | 1878 | 2499 | 3171 | 628 | 0  |
|-----------|-----|-------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run | Gauge | Microstrain |     |      |      |      |      |     |    |
| 21        | 5   | 25.8  | 0           | 60  | 121  | 155  | 251  | 191  | 65  | -3 |
|           | 6   |       | -3          | 56  | 119  | 183  | 248  | 188  | 63  | -3 |
| 22        | 5   | 25.9  | 0           | 37  | 75   | 116  | 156  | 120  | 41  | 3  |
|           | 6   |       | 3           | 39  | 79   | 118  | 159  | 122  | 43  | 3  |
| 23        | 5   | 28.10 | 0           | 34  | 71   | 107  | 142  | 108  | 34  | 3  |
|           | 6   |       | 3           | 37  | 73   | 108  | 145  | 110  | 37  | 3  |
| 24        | 5   | 1.4SB | 0           | 84  | 167  | 256  | 342  | 259  | 87  | 1  |
|           | 6   |       | 1           | 79  | 166  | 252  | 340  | 257  | 87  | 1  |
| 25        | 5   | 16SB  | 0           | 130 | 260  | 396  | 528  | 400  | 133 | 1  |
|           | 6   |       | 1           | 126 | 260  | 393  | 527  | 399  | 135 | 1  |
| 26        | 5   | 18PT  | 0           | 84  | 171  | 260  | 351  | 266  | 89  | -1 |
|           | 6   |       | -1          | 83  | 171  | 260  | 349  | 266  | 88  | -1 |
| 27        | 5   | 27.1  | 0           | 56  | 112  | 170  | 228  | 173  | 57  | 1  |
|           | 6   |       | 1           | 54  | 112  | 168  | 226  | 171  | 56  | 1  |
| 28        | 5   | 28.1  | 0           | 62  | 126  | 195  | 263  | 199  | 67  | 1  |
|           | 6   |       | 1           | 63  | 129  | 196  | 264  | 201  | 70  | 1  |

TABLE 5

H05(main store): Load case 2703 on 18/12/78

| Load (kg) |     |         | 0           | 624 | 1245 | 1869 | 2490 | 1862 | 628 | 0  |
|-----------|-----|---------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |      |      |      |      |     |    |
| 5         | 1   | 27.2    | 0           | 56  | 119  | 185  | 251  | 188  | 65  | 0  |
|           | 2   |         | 0           | 58  | 118  | 184  | 249  | 188  | 63  | 0  |
| 6         | 1   | 27.3    | 0           | 46  | 96   | 149  | 202  | 154  | 53  | 0  |
|           | 2   |         | 0           | 46  | 96   | 148  | 199  | 153  | 51  | 0  |
| 7         | 1   | 27.4    | 0           | 63  | 126  | 195  | 263  | 193  | 64  | 0  |
|           | 2   |         | 0           | 62  | 126  | 193  | 260  | 191  | 63  | 0  |
| 8         | 1   | 27.5    | 0           | 8   | 22   | 34   | 50   | 41   | 12  | -2 |
|           | 2   |         | -2          | 4   | 20   | 33   | 48   | 38   | 11  | -2 |
| 9         | 1   | 1.6SB   | 0           | 102 | 201  | 303  | 407  | 309  | 106 | 0  |
|           | 2   |         | 0           | 103 | 201  | 304  | 405  | 306  | 105 | 0  |
| 10        | 1   | 2SB     | 0           | 80  | 158  | 238  | 320  | 241  | 82  | 0  |
|           | 2   |         | 0           | 81  | 159  | 238  | 318  | 240  | 81  | 0  |
| 11        | 1   | 223SB   | 0           | 105 | 207  | 313  | 422  | 318  | 109 | 0  |
|           | 2   |         | 0           | 107 | 208  | 315  | 421  | 318  | 109 | 0  |
| 12        | 1   | 320SB   | 0           | 87  | 181  | 275  | 370  | 279  | 94  | 0  |
|           | 2   |         | 0           | 93  | 181  | 276  | 370  | 279  | 95  | 0  |
| 13        | 1   | 323.3SB | 0           | 125 | 243  | 365  | 485  | 374  | 135 | 15 |
|           | 2   |         | 15          | 103 | 214  | 333  | 450  | 335  | 102 | 15 |
| 14        | 1   | 326SB   | 0           | 90  | 182  | 278  | 373  | 280  | 97  | 1  |
|           | 2   |         | 1           | 94  | 183  | 278  | 372  | 282  | 98  | 1  |
| 15        | 1   | 328SB   | 0           | 92  | 180  | 271  | 365  | 275  | 94  | -1 |
|           | 2   |         | -1          | 94  | 179  | 272  | 363  | 273  | 94  | -1 |
| 16        | 1   | 28.2    | 0           | 69  | 142  | 217  | 294  | 224  | 78  | 0  |
|           | 2   |         | 0           | 71  | 142  | 218  | 294  | 225  | 78  | 0  |
| 17        | 1   | 28.4    | 0           | 56  | 117  | 183  | 249  | 191  | 66  | 0  |
|           | 2   |         | 0           | 59  | 118  | 184  | 249  | 191  | 67  | 0  |
| 18        | 1   | 28.5    | 0           | 62  | 123  | 191  | 258  | 196  | 68  | 1  |
|           | 2   |         | 1           | 63  | 125  | 191  | 256  | 197  | 70  | 1  |
| 19        | 1   | 28.6    | 0           | 61  | 128  | 196  | 268  | 204  | 72  | 0  |
|           | 2   |         | 0           | 62  | 127  | 196  | 267  | 205  | 72  | 0  |
| 20        | 1   | 28.7    | 0           | 71  | 149  | 230  | 313  | 239  | 82  | 0  |
|           | 2   |         | 0           | 74  | 149  | 231  | 313  | 239  | 82  | 0  |

TABLE 5 (Continued)

H05(main store): Load case 2703 on 18/12/78

| Load (kg) |     |       | 0           | 624 | 1245 | 1869 | 2490 | 1862 | 628 | 0 |
|-----------|-----|-------|-------------|-----|------|------|------|------|-----|---|
| Ch        | Run | Gauge | Microstrain |     |      |      |      |      |     |   |
| 21        | 1   | 28.8  | 0           | 62  | 126  | 192  | 260  | 199  | 70  | 3 |
|           | 2   |       | 3           | 64  | 127  | 192  | 261  | 200  | 70  | 3 |
| 22        | 1   | 28.9  | 0           | 35  | 72   | 110  | 149  | 114  | 40  | 0 |
|           | 2   |       | 0           | 39  | 73   | 112  | 150  | 116  | 40  | 0 |
| 23        | 1   | 28.10 | 0           | 33  | 71   | 107  | 143  | 107  | 35  | 0 |
|           | 2   |       | 0           | 36  | 71   | 109  | 146  | 110  | 36  | 0 |
| 24        | 1   | 1.4SB | 0           | 86  | 171  | 258  | 348  | 262  | 89  | 1 |
|           | 2   |       | 1           | 87  | 170  | 259  | 347  | 262  | 89  | 1 |
| 25        | 1   | 16SB  | 0           | 135 | 267  | 402  | 539  | 406  | 136 | 0 |
|           | 2   |       | 0           | 138 | 267  | 404  | 537  | 403  | 138 | 0 |
| 26        | 1   | 18PT  | 0           | 80  | 164  | 250  | 339  | 254  | 90  | 0 |
|           | 2   |       | 0           | 82  | 164  | 250  | 338  | 255  | 88  | 0 |
| 27        | 1   | 27.1  | 0           | 55  | 112  | 171  | 232  | 175  | 59  | 0 |
|           | 2   |       | 0           | 57  | 113  | 171  | 230  | 175  | 58  | 0 |
| 28        | 1   | 28.1  | 0           | 65  | 132  | 202  | 273  | 208  | 71  | 0 |
|           | 2   |       | 0           | 67  | 133  | 204  | 273  | 208  | 73  | 0 |

TABLE 6

H05(main store): Load case 2803 on 19/12/78

| Load (kg) |     |         | 0           | 633 | 1245 | 1873 | 2499 | 1873 | 628 | 0  |
|-----------|-----|---------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |      |      |      |      |     |    |
| 5         | 1   | 27.2    | 0           | 53  | 114  | 180  | 246  | 187  | 60  | -4 |
|           | 2   |         | -4          | 54  | 116  | 180  | 247  | 186  | 59  | -4 |
| 6         | 1   | 27.3    | 0           | 45  | 95   | 148  | 199  | 154  | 51  | -2 |
|           | 2   |         | -2          | 45  | 95   | 146  | 201  | 154  | 50  | -2 |
| 7         | 1   | 27.4    | 0           | 65  | 127  | 195  | 262  | 195  | 66  | 1  |
|           | 2   |         | 1           | 66  | 129  | 195  | 263  | 195  | 65  | 1  |
| 8         | 1   | 27.5    | 0           | 9   | 22   | 37   | 51   | 45   | 15  | 0  |
|           | 2   |         | 0           | 8   | 22   | 36   | 51   | 44   | 13  | 0  |
| 9         | 1   | 1.6SB   | 0           | 101 | 200  | 305  | 405  | 308  | 105 | 0  |
|           | 2   |         | 0           | 100 | 200  | 304  | 409  | 308  | 104 | 0  |
| 10        | 1   | 2SB     | 0           | 78  | 157  | 239  | 317  | 240  | 82  | 0  |
|           | 2   |         | 0           | 78  | 157  | 237  | 320  | 240  | 81  | 0  |
| 11        | 1   | 223SB   | 0           | 103 | 205  | 314  | 418  | 316  | 109 | 0  |
|           | 2   |         | 0           | 102 | 206  | 313  | 422  | 318  | 107 | 0  |
| 12        | 1   | 320SB   | 0           | 85  | 176  | 272  | 364  | 276  | 95  | 1  |
|           | 2   |         | 1           | 86  | 178  | 271  | 368  | 276  | 91  | 1  |
| 13        | 1   | 323.3SB | 0           | 113 | 228  | 349  | 465  | 353  | 121 | 0  |
|           | 2   |         | 0           | 112 | 228  | 348  | 469  | 353  | 118 | 0  |
| 14        | 1   | 326SB   | 0           | 89  | 181  | 276  | 368  | 279  | 96  | 0  |
|           | 2   |         | 0           | 89  | 181  | 274  | 372  | 280  | 94  | 0  |
| 15        | 1   | 328SB   | 0           | 90  | 179  | 273  | 363  | 274  | 95  | 0  |
|           | 2   |         | 0           | 90  | 180  | 271  | 366  | 275  | 93  | 0  |
| 16        | 1   | 28.2    | 0           | 70  | 140  | 216  | 293  | 226  | 77  | 0  |
|           | 2   |         | 0           | 70  | 142  | 216  | 294  | 226  | 76  | 0  |
| 17        | 1   | 28.4    | 0           | 58  | 117  | 183  | 248  | 192  | 66  | 0  |
|           | 2   |         | 0           | 57  | 118  | 183  | 250  | 192  | 66  | 0  |
| 18        | 1   | 28.5    | 0           | 60  | 122  | 191  | 254  | 196  | 68  | 0  |
|           | 2   |         | 0           | 60  | 122  | 189  | 257  | 196  | 67  | 0  |
| 19        | 1   | 28.6    | 0           | 63  | 127  | 196  | 267  | 207  | 72  | 0  |
|           | 2   |         | 0           | 63  | 128  | 196  | 269  | 207  | 71  | 0  |
| 20        | 1   | 28.7    | 0           | 74  | 149  | 231  | 313  | 241  | 82  | 0  |
|           | 2   |         | 0           | 73  | 151  | 231  | 315  | 241  | 82  | 0  |

TABLE 6 (Continued)

H05 (main store): Load case 2803 on 19/12/78

| Load (kg) |     |       | 0           | 633 | 1245 | 1873 | 2499 | 1873 | 628 | 0 |
|-----------|-----|-------|-------------|-----|------|------|------|------|-----|---|
| Ch        | Run | Gauge | Microstrain |     |      |      |      |      |     |   |
| 21        | 1   | 28.8  | 0           | 61  | 123  | 191  | 258  | 199  | 69  | 0 |
|           | 2   |       | 0           | 61  | 125  | 191  | 260  | 199  | 69  | 0 |
| 22        | 1   | 28.9  | 0           | 36  | 73   | 112  | 150  | 114  | 39  | 0 |
|           | 2   |       | 0           | 35  | 73   | 112  | 151  | 116  | 39  | 0 |
| 23        | 1   | 28.10 | 0           | 36  | 72   | 108  | 146  | 111  | 36  | 0 |
|           | 2   |       | 0           | 36  | 74   | 110  | 146  | 111  | 38  | 0 |
| 24        | 1   | 1.4SB | 0           | 84  | 169  | 260  | 345  | 262  | 90  | 0 |
|           | 2   |       | 0           | 84  | 169  | 258  | 349  | 262  | 88  | 0 |
| 25        | 1   | 16SB  | 0           | 133 | 266  | 404  | 535  | 404  | 138 | 0 |
|           | 2   |       | 0           | 132 | 266  | 402  | 539  | 404  | 135 | 0 |
| 26        | 1   | 18PT  | 0           | 82  | 162  | 249  | 337  | 258  | 89  | 1 |
|           | 2   |       | 1           | 84  | 165  | 249  | 339  | 258  | 89  | 1 |
| 27        | 1   | 27.1  | 0           | 57  | 114  | 173  | 233  | 178  | 61  | 0 |
|           | 2   |       | 0           | 57  | 114  | 173  | 235  | 177  | 60  | 0 |
| 28        | 1   | 28.1  | 0           | 64  | 130  | 201  | 269  | 206  | 71  | 0 |
|           | 2   |       | 0           | 64  | 131  | 200  | 272  | 207  | 70  | 0 |

TABLE 7

H05(main store): Load case 2903 on 25/1/79

| Load (kg) |     |         | 0           | 630 | 1247 | 1867 | 2495 | 1869 | 625 | 0  |
|-----------|-----|---------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |      |      |      |      |     |    |
| 5         | 1   | 27.2    | 0           | 57  | 119  | 183  | 250  | 189  | 62  | -1 |
|           | 2   |         | -1          | 57  | 119  | 184  | 252  | 191  | 65  | -1 |
| 6         | 1   | 27.3    | 0           | 47  | 96   | 146  | 198  | 155  | 56  | 3  |
|           | 2   |         | 3           | 49  | 98   | 151  | 199  | 156  | 56  | 3  |
| 7         | 1   | 27.4    | 0           | 64  | 128  | 191  | 259  | 191  | 65  | 0  |
|           | 2   |         | 0           | 66  | 128  | 194  | 262  | 194  | 67  | 0  |
| 8         | 1   | 27.5    | 0           | 8   | 20   | 34   | 49   | 42   | 13  | 0  |
|           | 2   |         | 0           | 7   | 20   | 33   | 47   | 38   | 12  | 0  |
| 9         | 1   | 1.6SB   | 0           | 98  | 195  | 293  | 392  | 300  | 106 | 2  |
|           | 2   |         | 2           | 99  | 197  | 298  | 394  | 299  | 103 | 2  |
| 10        | 1   | 2SB     | 0           | 76  | 150  | 225  | 301  | 230  | 80  | 1  |
|           | 2   |         | 1           | 77  | 151  | 229  | 303  | 229  | 78  | 1  |
| 11        | 1   | 223SB   | 0           | 100 | 199  | 298  | 400  | 305  | 108 | 3  |
|           | 2   |         | 3           | 103 | 201  | 304  | 402  | 304  | 105 | 3  |
| 12        | 1   | 320SB   | 0           | 71  | 148  | 230  | 313  | 244  | 87  | 3  |
|           | 2   |         | 3           | 71  | 148  | 231  | 312  | 240  | 82  | 3  |
| 13        | 1   | 323.3SB | 0           | 107 | 217  | 340  | 436  | 340  | 132 | 16 |
|           | 2   |         | 16          | 121 | 227  | 338  | 449  | 345  | 131 | 16 |
| 14        | 1   | 326SB   | 0           | 82  | 162  | 243  | 327  | 251  | 91  | 3  |
|           | 2   |         | 3           | 84  | 164  | 247  | 328  | 251  | 88  | 3  |
| 15        | 1   | 328SB   | 0           | 87  | 172  | 259  | 347  | 264  | 92  | 2  |
|           | 2   |         | 2           | 88  | 174  | 263  | 348  | 263  | 89  | 2  |
| 16        | 1   | 28.2    | 0           | 67  | 137  | 209  | 285  | 218  | 76  | 2  |
|           | 2   |         | 2           | 70  | 140  | 212  | 287  | 217  | 75  | 2  |
| 17        | 1   | 28.4    | 0           | 57  | 118  | 179  | 245  | 190  | 68  | 2  |
|           | 2   |         | 2           | 59  | 120  | 183  | 246  | 189  | 66  | 2  |
| 18        | 1   | 28.5    | 0           | 58  | 116  | 175  | 236  | 182  | 65  | 2  |
|           | 2   |         | 2           | 59  | 117  | 178  | 237  | 181  | 62  | 2  |
| 19        | 1   | 28.6    | 0           | 61  | 125  | 191  | 261  | 200  | 70  | 2  |
|           | 2   |         | 2           | 63  | 127  | 193  | 263  | 199  | 68  | 2  |
| 20        | 1   | 28.7    | 0           | 76  | 155  | 236  | 319  | 247  | 87  | 3  |
|           | 2   |         | 3           | 79  | 156  | 239  | 320  | 246  | 85  | 3  |

TABLE 7 (Continued)

H05 (main store): Load case 2903 on 25/1/79

| Load (kg) |     |       | 0           | 630 | 1247 | 1867 | 2495 | 1869 | 628 | 0 |
|-----------|-----|-------|-------------|-----|------|------|------|------|-----|---|
| Ch        | Run | Gauge | Microstrain |     |      |      |      |      |     |   |
| 21        | 1   | 28.8  | 0           | 61  | 125  | 189  | 257  | 197  | 69  | 1 |
|           | 2   |       | 1           | 62  | 126  | 192  | 258  | 196  | 66  | 1 |
| 22        | 1   | 25.9  | 0           | 36  | 73   | 113  | 153  | 120  | 43  | 2 |
|           | 2   |       | 2           | 37  | 75   | 114  | 153  | 118  | 41  | 2 |
| 23        | 1   | 25.10 | 0           | 31  | 65   | 99   | 134  | 103  | 35  | 0 |
|           | 2   |       | 0           | 32  | 66   | 99   | 136  | 102  | 35  | 0 |
| 24        | 1   | 1.4SB | 0           | 78  | 157  | 236  | 318  | 245  | 87  | 2 |
|           | 2   |       | 2           | 81  | 159  | 241  | 320  | 244  | 84  | 2 |
| 25        | 1   | 16SB  | 0           | 120 | 238  | 360  | 482  | 371  | 131 | 3 |
|           | 2   |       | 3           | 123 | 242  | 367  | 485  | 369  | 127 | 3 |
| 26        | 1   | 18PT  | 0           | 81  | 160  | 244  | 332  | 251  | 86  | 0 |
|           | 2   |       | 0           | 82  | 161  | 245  | 335  | 251  | 88  | 0 |
| 27        | 1   | 27.1  | 0           | 57  | 112  | 168  | 226  | 173  | 61  | 0 |
|           | 2   |       | 0           | 58  | 113  | 172  | 228  | 173  | 60  | 0 |
| 28        | 1   | 28.1  | 0           | 61  | 125  | 189  | 255  | 197  | 70  | 2 |
|           | 2   |       | 2           | 65  | 127  | 192  | 256  | 195  | 68  | 2 |

TABLE 8

H05 (main store): Load case 3403 on 10/11/81

| Load (kg) |     |         | 0           | 474 | 903 | 1365 | 1835 | 1393 | 426 | 0  |
|-----------|-----|---------|-------------|-----|-----|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |     |      |      |      |     |    |
| 4         | 1   | 323.5SB | 0           | 66  | 135 | 205  | 293  | 218  | 62  | -2 |
| 5         | 1   | 223SB   | 0           | 70  | 143 | 220  | 300  | 220  | 66  | 2  |
| 6         | 1   | 1.6SB   | 0           | 67  | 139 | 215  | 296  | 215  | 58  | 0  |
| 7         | 1   | 2SB     | 0           | 55  | 110 | 168  | 231  | 170  | 49  | 0  |
| 8         | 1   | 325.1SB | 0           | 96  | 197 | 307  | 428  | 315  | 90  | 3  |
| 9         | 1   | 324.3SB | 0           | 88  | 179 | 278  | 385  | 284  | 80  | 0  |
| 10        | 1   | 324.1SB | 0           | 88  | 180 | 280  | 388  | 285  | 83  | 2  |
| 11        | 1   | 324.4SB | 0           | 90  | 180 | 280  | 387  | 285  | 80  | 0  |
| 12        | 1   | 323.3SB | 0           | 72  | 148 | 228  | 312  | 234  | 67  | 6  |
| 13        | 1   | 323.1SB | 0           | 62  | 127 | 196  | 270  | 197  | 56  | 3  |
| 14        | 1   | 324.4PT | 0           | 104 | 188 | 282  | 382  | 302  | 102 | -2 |
| 15        | 1   | 323.5PT | 0           | 85  | 153 | 234  | 316  | 251  | 85  | -4 |
| 16        | 1   | 18PT    | 0           | 67  | 122 | 185  | 251  | 199  | 65  | 0  |
| 17        | 1   | 325.1PT | 0           | 113 | 206 | 311  | 418  | 333  | 113 | 0  |
| 18        | 1   | 324.3PT | 0           | 102 | 186 | 280  | 379  | 301  | 102 | 0  |
| 19        | 1   | 324.1PT | 0           | 105 | 188 | 284  | 384  | 305  | 103 | 0  |
| 20        | 1   | 28.6    | 0           | 50  | 92  | 141  | 194  | 153  | 50  | 1  |
| 21        | 1   | 28.7    | 0           | 55  | 111 | 173  | 237  | 182  | 55  | 0  |
| 22        | 1   | 27.1    | 0           | 40  | 77  | 120  | 164  | 123  | 36  | 0  |
| 23        | 1   | 27.4    | 0           | 48  | 90  | 136  | 182  | 137  | 45  | 0  |
| 24        | 1   | 28.1    | 0           | 46  | 92  | 141  | 195  | 145  | 43  | 0  |
| 25        | 1   | 28.2    | 0           | 56  | 104 | 159  | 215  | 169  | 56  | 3  |
| 26        | 1   | 28.8    | 0           | 47  | 91  | 140  | 192  | 149  | 47  | 0  |
| 27        | 1   | 28.4    | 0           | 44  | 85  | 132  | 181  | 142  | 44  | 3  |

TABLE 8 (Continued)

H05(main store): Load case 3403 on 10/11/81

| Load (kg) |     |       | 0           | 474 | 903 | 1365 | 1835 | 1393 | 426 | 0 |
|-----------|-----|-------|-------------|-----|-----|------|------|------|-----|---|
| Ch        | Run | Gauge | Microstrain |     |     |      |      |      |     |   |
| 28        | 1   | 1.4SB | 0           | 51  | 101 | 154  | 211  | 156  | 46  | 0 |
| 29        | 1   | 16TSB | 0           | 87  | 176 | 272  | 373  | 277  | 80  | 0 |

TABLE 9

H05(main store): Load case 3503 on 2/12/81

| Load (kg) |     |         | 0           | 637 | 1254 | 1876 | 2495 | 1871 | 635 | 0  |
|-----------|-----|---------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |      |      |      |      |     |    |
| 4         | 1   | 323.5SB | 0           | 114 | 218  | 328  | 446  | 338  | 114 | -4 |
|           | 2   |         | *0          | 108 | 220  | 330  | 448  | 340  | 112 | -4 |
| 5         | 1   | 223SB   | 0           | 104 | 201  | 310  | 409  | 310  | 108 | 2  |
|           | 2   |         | 2           | 100 | 204  | 310  | 411  | 314  | 106 | 2  |
| 6         | 1   | 1.6SB   | 0           | 104 | 201  | 307  | 407  | 308  | 108 | 2  |
|           | 2   |         | 2           | 101 | 203  | 308  | 409  | 311  | 107 | 3  |
| 7         | 1   | 2SB     | 0           | 77  | 153  | 235  | 314  | 236  | 80  | 0  |
|           | 2   |         | 0           | 75  | 153  | 236  | 314  | 239  | 80  | 0  |
| 8         | 1   | 325.1SB | 0           | 147 | 289  | 443  | 590  | 448  | 156 | 0  |
|           | 2   |         | 0           | 140 | 287  | 441  | 590  | 452  | 152 | 0  |
| 9         | 1   | 324.3SB | 0           | 131 | 256  | 392  | 522  | 394  | 133 | 9  |
|           | 2   |         | 9           | 112 | 244  | 380  | 515  | 389  | 116 | 19 |
| 10        | 1   | 324.1SB | 0           | 135 | 261  | 399  | 531  | 403  | 144 | 0  |
|           | 2   |         | 0           | 126 | 259  | 399  | 531  | 407  | 139 | 0  |
| 11        | 1   | 324.4SB | 0           | 132 | 258  | 395  | 525  | 397  | 139 | 0  |
|           | 2   |         | 0           | 124 | 256  | 395  | 525  | 401  | 137 | 2  |
| 12        | 1   | 323.3SB | 0           | 105 | 207  | 319  | 429  | 324  | 110 | 0  |
|           | 2   |         | 0           | 100 | 207  | 322  | 429  | 326  | 110 | 0  |
| 13        | 1   | 323.1SB | 0           | 91  | 179  | 275  | 365  | 275  | 96  | 1  |
|           | 2   |         | 1           | 88  | 180  | 277  | 366  | 278  | 95  | 3  |
| 14        | 1   | 324.4PT | 0           | 138 | 265  | 396  | 534  | 402  | 136 | 4  |
|           | 2   |         | 4           | 131 | 269  | 398  | 536  | 405  | 131 | 4  |
| 15        | 1   | 323.5PT | 0           | 114 | 218  | 328  | 446  | 338  | 114 | 4  |
|           | 2   |         | 0           | 108 | 220  | 330  | 448  | 340  | 112 | 4  |
| 16        | 1   | 18PT    | 0           | 89  | 176  | 262  | 356  | 266  | 89  | 0  |
|           | 2   |         | 0           | 88  | 179  | 265  | 357  | 269  | 88  | 0  |
| 17        | 1   | 325.1PT | 0           | 150 | 290  | 438  | 592  | 447  | 152 | 0  |
|           | 2   |         | 0           | 145 | 295  | 440  | 595  | 452  | 150 | 2  |
| 18        | 1   | 324.3PT | 0           | 137 | 262  | 396  | 538  | 406  | 139 | 0  |
|           | 2   |         | 0           | 132 | 267  | 399  | 540  | 411  | 137 | 0  |
| 19        | 1   | 324.1PT | 0           | 137 | 266  | 399  | 541  | 408  | 137 | 4  |
|           | 2   |         | 0           | 133 | 271  | 401  | 543  | 412  | 135 | 4  |

TABLE 9 (Continued)

H05 (main store): Load case 3503 on 2/12/81

| Load (kg) |     |       | 0           | 637 | 1254 | 1876 | 2495 | 1871 | 635 | 0 |
|-----------|-----|-------|-------------|-----|------|------|------|------|-----|---|
| Ch        | Run | Gauge | Microstrain |     |      |      |      |      |     |   |
| 20        | 1   | 28.6  | 0           | 68  | 132  | 204  | 279  | 213  | 73  | 2 |
|           | 2   |       | 2           | 65  | 135  | 205  | 280  | 216  | 72  | 2 |
| 21        | 1   | 28.7  | 0           | 79  | 156  | 241  | 326  | 248  | 85  | 0 |
|           | 2   |       | 0           | 75  | 157  | 242  | 326  | 249  | 81  | 0 |
| 22        | 1   | 27.1  | 0           | 59  | 115  | 176  | 234  | 176  | 60  | 0 |
|           | 2   |       | 0           | 57  | 116  | 176  | 234  | 178  | 60  | 0 |
| 23        | 1   | 27.4  | 0           | 64  | 125  | 189  | 254  | 189  | 65  | 0 |
|           | 2   |       | 0           | 66  | 128  | 191  | 255  | 191  | 66  | 2 |
| 24        | 1   | 28.1  | 0           | 67  | 130  | 202  | 272  | 209  | 72  | 0 |
|           | 2   |       | 0           | 64  | 131  | 204  | 274  | 211  | 71  | 0 |
| 25        | 1   | 28.2  | 0           | 73  | 144  | 219  | 299  | 227  | 78  | 0 |
|           | 2   |       | 0           | 70  | 146  | 221  | 299  | 230  | 75  | 0 |
| 26        | 1   | 28.8  | 0           | 65  | 127  | 195  | 264  | 201  | 69  | 1 |
|           | 2   |       | 1           | 60  | 127  | 195  | 263  | 202  | 65  | 2 |
| 27        | 1   | 28.4  | 0           | 63  | 122  | 190  | 258  | 198  | 67  | 0 |
|           | 2   |       | 0           | 58  | 124  | 191  | 258  | 200  | 65  | 0 |
| 28        | 1   | 1.4SB | 0           | 74  | 144  | 218  | 289  | 218  | 76  | 0 |
|           | 2   |       | 0           | 70  | 142  | 218  | 289  | 219  | 74  | 3 |
| 29        | 1   | 16SB  | 0           | 134 | 260  | 395  | 520  | 395  | 139 | 0 |
|           | 2   |       | 0           | 128 | 258  | 395  | 522  | 399  | 134 | 0 |

\* Difference between final zero of one run and initial zero of next run may indicate substantial time delays between runs.

TABLE 10

H05(main store): Load case 3603 on 8/7/82

| Load (kg) |           | 0           | 618 | 1249 | 1876 | 2484 | 1881 | 620 | 0  |
|-----------|-----------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run Gauge | Microstrain |     |      |      |      |      |     |    |
| 5         | 1 223SB   | 0           | 102 | 208  | 314  | 418  | 320  | 108 | 0  |
|           | 2         | 0           | 104 | 206  | 312  | 414  | 316  | 106 | 0  |
| 6         | 1 1.6SB   | 0           | 99  | 203  | 305  | 406  | 307  | 102 | 0  |
|           | 2         | 0           | 101 | 200  | 304  | 401  | 304  | 101 | 0  |
| 7         | 1 2SB     | 0           | 77  | 160  | 242  | 320  | 246  | 83  | 0  |
|           | 2         | 0           | 80  | 158  | 240  | 318  | 243  | 81  | 0  |
| 8         | 1 325.1SB | 0           | 147 | 305  | 459  | 615  | 469  | 161 | 0  |
|           | 2         | 2           | 152 | 301  | 457  | 608  | 466  | 156 | 2  |
| 9         | 1 324.3SB | 0           | 131 | 273  | 411  | 555  | 422  | 145 | 0  |
|           | 2         | 0           | 133 | 266  | 408  | 548  | 418  | 140 | 0  |
| 10        | 1 324.1SB | 0           | 129 | 270  | 407  | 546  | 416  | 141 | 0  |
|           | 2         | 2           | 133 | 266  | 405  | 542  | 414  | 139 | 0  |
| 11        | 1 324.4SB | 0           | 126 | 260  | 392  | 527  | 399  | 134 | 0  |
|           | 2         | 0           | 128 | 256  | 390  | 522  | 397  | 130 | -2 |
| 12        | 1 323.3SB | 0           | 105 | 222  | 334  | 446  | 341  | 114 | 0  |
|           | 2         | 0           | 110 | 219  | 334  | 441  | 338  | 114 | 0  |
| 13        | 1 323.1SB | 0           | 88  | 182  | 274  | 362  | 272  | 89  | 0  |
|           | 2         | 0           | 91  | 179  | 271  | 359  | 271  | 89  | 0  |
| 14        | 1 324.4PT | 0           | 127 | 267  | 396  | 529  | 402  | 136 | 0  |
|           | 2         | 0           | 131 | 258  | 396  | 529  | 405  | 133 | -2 |
| 15        | 1 323.5PT | 0           | 104 | 224  | 336  | 452  | 346  | 116 | 0  |
|           | 2         | 0           | 110 | 220  | 336  | 452  | 348  | 114 | 0  |
| 16        | 1 18PT    | 0           | 85  | 179  | 269  | 357  | 274  | 91  | 0  |
|           | 2         | 0           | 89  | 176  | 269  | 357  | 276  | 91  | 0  |
| 17        | 1 325.1PT | 0           | 138 | 297  | 444  | 598  | 456  | 152 | 0  |
|           | 2         | 0           | 147 | 290  | 444  | 598  | 458  | 152 | 0  |
| 18        | 1 324.3PT | 0           | 127 | 269  | 406  | 545  | 420  | 144 | 0  |
|           | 2         | 2           | 135 | 267  | 406  | 548  | 420  | 142 | 2  |
| 19        | 1 324.1PT | 0           | 129 | 273  | 408  | 546  | 419  | 142 | 0  |
|           | 2         | 0           | 135 | 266  | 408  | 548  | 419  | 140 | 0  |
| 20        | 1 28.6    | 0           | 67  | 143  | 219  | 295  | 229  | 78  | 0  |
|           | 2         | 1           | 71  | 141  | 219  | 295  | 229  | 78  | 1  |

TABLE 10 (Continued)

H05(main store): Load case 3603 on 8/7/82

| Load (kg) |     |       | 0           | 618 | 1249 | 1876 | 2484 | 1881 | 620 | 0  |
|-----------|-----|-------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run | Gauge | Microstrain |     |      |      |      |      |     |    |
| 21        | 1   | 28.7  | 0           | 73  | 160  | 244  | 327  | 252  | 85  | 0  |
|           | 2   |       | -1          | 75  | 157  | 242  | 326  | 252  | 82  | -3 |
| 22        | 1   | 27.1  | 0           | 58  | 117  | 177  | 239  | 180  | 62  | 0  |
|           | 2   |       | 1           | 59  | 117  | 177  | 238  | 180  | 61  | 1  |
| 23        | 1   | 27.4  | 0           | 60  | 125  | 190  | 254  | 192  | 64  | 0  |
|           | 2   |       | 1           | 66  | 126  | 193  | 257  | 196  | 65  | 3  |
| 24        | 1   | 28.1  | 0           | 66  | 139  | 211  | 283  | 219  | 74  | 0  |
|           | 2   |       | 1           | 68  | 138  | 210  | 280  | 216  | 73  |    |
| 25        | 1   | 28.2  | 0           | 71  | 153  | 231  | 311  | 239  | 80  | 0  |
|           | 2   |       | 0           | 74  | 151  | 231  | 311  | 239  | 79  | 0  |
| 26        | 1   | 28.8  | 0           | 61  | 132  | 201  | 270  | 209  | 71  | 0  |
|           | 2   |       | -1          | 63  | 129  | 200  | 268  | 208  | 69  | -1 |
| 27        | 1   | 28.4  | 0           | 56  | 122  | 187  | 255  | 197  | 66  | 0  |
|           | 2   |       | 0           | 58  | 120  | 186  | 254  | 197  | 64  | -1 |
| 28        | 1   | 1.4SB | 0           | 71  | 145  | 219  | 290  | 222  | 74  | 0  |
|           | 2   |       | 0           | 73  | 144  | 219  | 287  | 221  | 73  | 0  |
| 29        | 1   | 27.2  | 0           | 58  | 125  | 189  | 260  | 200  | 69  | 0  |
|           | 2   |       | 2           | 62  | 123  | 191  | 262  | 204  | 71  | 4  |

TABLE 11

H05(main store): Load case 4103 on 12/12/84

| Load (kg) |           | 0           | 628 | 1259 | 1878 | 2497 | 1871 | 635 | 0  |
|-----------|-----------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run Gauge | Microstrain |     |      |      |      |      |     |    |
| 7         | 1 27.4    | 0           | 66  | 131  | 194  | 260  | 192  | 65  | 1  |
|           | 2         | 0           | 63  | 129  | 192  | 253  | 188  | 60  | -1 |
| 8         | 1 27.1 *  | 0           | 57  | 116  | 173  | 234  | 175  | 60  | 1  |
|           | 2         | 1           | 58  | 114  | 173  | 232  | 177  | 60  | 1  |
| 9         | 1 35A     | 0           | 25  | 59   | 104  | 160  | 133  | 46  | 2  |
|           | 2         | 2           | 25  | 59   | 104  | 155  | 127  | 48  | 0  |
| 10        | 1 35B     | 0           | 8   | 20   | 39   | 59   | 51   | 17  | 0  |
|           | 2         | 0           | 8   | 20   | 37   | 58   | 49   | 19  | -2 |
| 11        | 1 35C     | 0           | 26  | 60   | 99   | 143  | 116  | 39  | 3  |
|           | 2         | 2           | 27  | 61   | 99   | 140  | 114  | 39  | -2 |
| 12        | 1 134T    | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 2         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
| 13        | 1 27      | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 8  |
|           | 2         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
| 14        | 1 28.1    | 0           | 62  | 130  | 198  | 273  | 208  | 70  | 2  |
|           | 2         | 2           | 65  | 130  | 198  | 270  | 207  | 72  | 2  |
| 15        | 1 29      | 0           | -3  | -7   | -10  | -14  | -10  | -3  | -2 |
|           | 2         | -2          | -5  | -7   | -10  | -14  | -10  | -5  | -2 |
| 16        | 1 28.7 *  | 0           | 73  | 154  | 236  | 325  | 249  | 84  | 2  |
|           | 2         | 0           | 75  | 154  | 237  | 321  | 248  | 84  | 2  |
| 17        | 1 31      | 0           | -3  | -2   | -3   | -7   | -5   | -2  | -2 |
|           | 2         | 2           | -2  | -2   | -3   | -5   | -5   | -2  | -2 |
| 18        | 1 33 *    | 0           | 3   | 10   | 13   | 18   | 13   | 3   | 0  |
|           | 2         | 0           | 5   | 8    | 15   | 20   | 13   | 7   | 0  |
| 19        | 1 134S    | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 2         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
| 20        | 1 36A     | 0           | 56  | 118  | 186  | 261  | 204  | 70  | 3  |
|           | 2         | 0           | 53  | 118  | 184  | 254  | 199  | 70  | -2 |
| 21        | 1 36B     | 0           | 36  | 77   | 126  | 179  | 143  | 48  | 2  |
|           | 2         | 0           | 34  | 77   | 126  | 174  | 140  | 48  | -2 |
| 22        | 1 TEMP    | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 2         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |

TABLE 11 (Continued)

H05 (main store): Load case 4103 on 12/12/84

| Load (kg) |     |       | 0           | 628 | 1259 | 1878 | 2497 | 1871 | 635 | 0   |    |
|-----------|-----|-------|-------------|-----|------|------|------|------|-----|-----|----|
| Ch        | Run | Gauge | Microstrain |     |      |      |      |      |     |     |    |
| 23        | 1   | 4     | *           | 0   | 5    | 11   | 16   | 21   | 17  | 6   | 0  |
|           | 2   |       |             | 0   | 5    | 11   | 16   | 21   | 17  | 6   | 1  |
| 24        | 1   | 5     |             | 0   | 3    | 5    | 6    | 8    | 5   | 2   | 0  |
|           | 2   |       |             | 0   | 3    | 5    | 6    | 8    | 5   | 3   | 1  |
| 25        | 1   | 6     |             | 0   | 0    | 0    | -1   | -3   | -2  | 0   | 0  |
|           | 2   |       |             | 0   | 0    | -1   | -2   | -3   | -3  | -1  | 0  |
| 26        | 1   | 7     |             | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0  |
|           | 2   |       |             | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0  |
| 27        | 1   | 11    |             | 0   | 0    | 0    | 0    | 1    | 3   | 1   | 1  |
|           | 2   |       |             | 0   | 0    | 0    | 0    | 1    | 2   | 1   | 0  |
| 28        | 1   | 12    |             | 0   | -4   | -5   | -5   | -5   | -4  | -2  | 0  |
|           | 2   |       |             | 0   | -3   | -5   | -5   | -4   | -2  | -1  | 1  |
| 29        | 1   | 13    |             | 0   | -1   | -2   | -1   | -1   | -2  | -1  | 0  |
|           | 2   |       |             | 0   | -1   | -1   | -1   | 0    | 0   | 0   | 1  |
| 30        | 1   | 20    | *           | 0   | 6    | 13   | 17   | 25   | 19  | 6   | 0  |
|           | 2   |       |             | 0   | 5    | 13   | 19   | 25   | 21  | 6   | 0  |
| 31        | 1   | 21    |             | 0   | 5    | 11   | 19   | 27   | 21  | 5   | -2 |
|           | 2   |       |             | -2  | 6    | 11   | 17   | 27   | 19  | 6   | -2 |
| 32        | 1   | 24    | *           | 0   | 9    | 19   | 29   | 41   | 31  | 10  | 0  |
|           | 2   |       |             | 0   | 9    | 20   | 30   | 41   | 32  | 12  | 1  |
| 33        | 1   | 25    | *           | 0   | 10   | 21   | 32   | 44   | 35  | 12  | 1  |
|           | 2   |       |             | 0   | 10   | 20   | 32   | 44   | 34  | 12  | 1  |
| 34        | 1   | 21T   |             | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0  |
|           | 2   |       |             | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0  |
| 35        | 1   | 37    |             | 0   | 88   | 185  | 290  | 401  | 313 | 106 | 3  |
|           | 2   |       |             | 2   | 91   | 185  | 290  | 394  | 310 | 108 | 2  |
| 36        | 1   | 14    |             | 0   | -1   | -1   | -2   | -3   | -2  | -1  | -1 |
|           | 2   |       |             | 0   | -1   | -1   | -1   | -2   | -1  | -1  | -1 |
| 37        | 1   | 38    |             | 0   | 98   | 206  | 318  | 437  | 334 | 112 | 2  |
|           | 2   |       |             | 2   | 101  | 206  | 318  | 431  | 332 | 112 | 0  |
| 38        | 1   | 18A   |             | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0  |
|           | 2   |       |             | 0   | -2   | 0    | 0    | 0    | 0   | 0   | 0  |

TABLE 11 (Continued)

H05(main store): Load case 4103 on 12/12/84

| Load (kg) |           | 0           | 628 | 1259 | 1875 | 2497 | 1871 | 635 | 0  |
|-----------|-----------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run Gauge | Microstrain |     |      |      |      |      |     |    |
| 39        | 1 39      | 0           | 101 | 212  | 326  | 448  | 344  | 115 | 2  |
|           | 2         | 2           | 102 | 210  | 326  | 443  | 342  | 116 | 0  |
| 40        | 1 22A     | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 2         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
| 41        | 1 40      | 0           | 76  | 160  | 250  | 346  | 265  | 88  | 0  |
|           | 2         | 0           | 77  | 160  | 250  | 341  | 264  | 90  | 0  |
| 42        | 1 21C     | 0           | -4  | -7   | -10  | -14  | -11  | -4  | 0  |
|           | 2         | 0           | -3  | -7   | -10  | -12  | -10  | -4  | 0  |
| 43        | 1 16      | 0           | -1  | -2   | -2   | -3   | -3   | -2  | -1 |
|           | 2         | -1          | -2  | -2   | -3   | -4   | -3   | -2  | -1 |
| 44        | 1 324.3SB | 0           | 128 | 267  | 402  | 547  | 419  | 142 | 3  |
|           | 2         | 0           | 132 | 263  | 402  | 544  | 415  | 142 | 0  |
| 45        | 1 324.3PT | 0           | 137 | 266  | 403  | 554  | 421  | 144 | 0  |
|           | 2         | 0           | 130 | 266  | 407  | 544  | 418  | 144 | 0  |
| 46        | 1 43      | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 2         | -1          | -1  | -1   | -1   | -1   | -2   | -1  | -1 |
| 47        | 1 44      | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 2         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |

\* Sign reversed.

TABLE 12

H05(main store): Load case 4203 on 13/2/85

| Load (kg) |           | 0           | 615 | 1261 | 1862 | 2511 | 1894 | 615 | 0  |
|-----------|-----------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run Gauge | Microstrain |     |      |      |      |      |     |    |
| 7         | 1 27.4    | 0           | 65  | 131  | 197  | 264  | 197  | 62  | 0  |
|           | 2         | 0           | 62  | 131  | 194  | 263  | 201  | 62  | 0  |
| 8         | 1 27.1 *  | 0           | 61  | 121  | 180  | 239  | 180  | 63  | 4  |
|           | 2         | 4           | 61  | 122  | 178  | 241  | 188  | 62  | 6  |
| 9         | 1 35A     | 0           | 20  | 51   | 95   | 151  | 122  | 49  | 0  |
|           | 2         | 0           | 25  | 56   | 95   | 155  | 129  | 51  | 0  |
| 10        | 1 35B     | 0           | 2   | 12   | 31   | 51   | 42   | 17  | -5 |
|           | 2         | -5          | 3   | 15   | 29   | 53   | 44   | 17  | -3 |
| 11        | 1 35C     | 0           | 20  | 49   | 87   | 131  | 102  | 39  | -2 |
|           | 2         | -2          | 27  | 56   | 87   | 131  | 106  | 41  | 2  |
| 12        | 1 134T    | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 2         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
| 13        | 1 27      | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 2         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
| 14        | 1 28.1    | 0           | 67  | 132  | 200  | 273  | 208  | 77  | 7  |
|           | 2         | 7           | 68  | 137  | 200  | 277  | 217  | 77  | 8  |
| 15        | 1 29      | 0           | -3  | -3   | -7   | -8   | -5   | 0   | 5  |
|           | 2         | 5           | 0   | -2   | -3   | -7   | -3   | 3   | 7  |
| 16        | 1 28.7 *  | 0           | 80  | 159  | 239  | 325  | 249  | 87  | 7  |
|           | 2         | 5           | 77  | 157  | 236  | 325  | 255  | 85  | 5  |
| 17        | 1 31      | 0           | 5   | 0    | 0    | 3    | 2    | 3   | 3  |
|           | 2         | 5           | 7   | 7    | 2    | 3    | 2    | 2   | 7  |
| 18        | 1 33 *    | 0           | 10  | 13   | 18   | 22   | 17   | 8   | 3  |
|           | 2         | 5           | 10  | 15   | 17   | 20   | 18   | 7   | 3  |
| 19        | 1 134S    | 0           | -2  | -2   | -2   | 0    | 0    | 0   | -2 |
|           | 2         | -2          | -2  | -2   | 0    | 0    | 0    | 0   | 0  |
| 20        | 1 36A     | 0           | 51  | 109  | 172  | 247  | 191  | 72  | 3  |
|           | 2         | 3           | 56  | 112  | 172  | 250  | 198  | 75  | 5  |
| 21        | 1 36B     | 0           | 27  | 65   | 111  | 164  | 126  | 44  | -5 |
|           | 2         | -5          | 29  | 67   | 108  | 164  | 130  | 44  | -5 |
| 22        | 1 TEMP    | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 2         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |

TABLE 12 (Continued)

H05(main store): Load case 4203 on 13/2/85

| Load (kg) |     |       | 0           | 615 | 1261 | 1862 | 2511 | 1894 | 615 | 0   |    |
|-----------|-----|-------|-------------|-----|------|------|------|------|-----|-----|----|
| Ch        | Run | Gauge | Microstrain |     |      |      |      |      |     |     |    |
| 23        | 1   | 4     | *           | 0   | 6    | 11   | 16   | 21   | 16  | 6   | 0  |
|           | 2   |       |             | 0   | 4    | 9    | 14   | 19   | 15  | 3   | -3 |
| 24        | 1   | 5     |             | 0   | 1    | 3    | 5    | 7    | 5   | 1   | -2 |
|           | 2   |       |             | -2  | 0    | 2    | 5    | 7    | 5   | 0   | -2 |
| 25        | 1   | 6     |             | 0   | -2   | -2   | -3   | -4   | -3  | -2  | -3 |
|           | 2   |       |             | -3  | -2   | -3   | -3   | -4   | -3  | -2  | -3 |
| 26        | 1   | 7     |             | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0  |
|           | 2   |       |             | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0  |
| 27        | 1   | 11    |             | 0   | -5   | -4   | -4   | -5   | -3  | -3  | -2 |
|           | 2   |       |             | -2  | -3   | -3   | -3   | -4   | -2  | -2  | -2 |
| 28        | 1   | 12    |             | 0   | -8   | -9   | -10  | -10  | -8  | -6  | -6 |
|           | 2   |       |             | -6  | -8   | -10  | -11  | -11  | -10 | -8  | -7 |
| 29        | 1   | 13    |             | 0   | -6   | -6   | -5   | -4   | -4  | -4  | -5 |
|           | 2   |       |             | -5  | -5   | -5   | -5   | -3   | -3  | -3  | -3 |
| 30        | 1   | 20    | *           | 0   | 6    | 13   | 21   | 29   | 22  | 10  | 3  |
|           | 2   |       |             | 2   | 8    | 14   | 22   | 33   | 25  | 13  | 5  |
| 31        | 1   | 21    |             | 0   | 5    | 11   | 17   | 24   | 17  | 3   | -5 |
|           | 2   |       |             | -5  | 2    | 10   | 14   | 22   | 16  | 2   | -6 |
| 32        | 1   | 24    | *           | 0   | 12   | 23   | 34   | 46   | 37  | 17  | 6  |
|           | 2   |       |             | 6   | 14   | 24   | 35   | 48   | 39  | 19  | 8  |
| 33        | 1   | 25    | *           | 0   | 14   | 24   | 36   | 47   | 37  | 16  | 3  |
|           | 2   |       |             | 3   | 14   | 24   | 34   | 46   | 38  | 14  | 3  |
| 34        | 1   | 21T   |             | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0  |
|           | 2   |       |             | 0   | 0    | 0    | 0    | 0    | 0   | 0   | 0  |
| 35        | 1   | 37    |             | 0   | 91   | 187  | 290  | 401  | 310 | 115 | 10 |
|           | 2   |       |             | 8   | 94   | 190  | 286  | 403  | 320 | 111 | 10 |
| 36        | 1   | 14    |             | 0   | -1   | -1   | -1   | -1   | -1  | 0   | 1  |
|           | 2   |       |             | 1   | 1    | 0    | -1   | -1   | 0   | 1   | 2  |
| 37        | 1   | 38    |             | 0   | 105  | 210  | 320  | 438  | 332 | 119 | 9  |
|           | 2   |       |             | 9   | 107  | 213  | 316  | 438  | 344 | 119 | 10 |
| 38        | 1   | 18A   |             | 0   | -2   | -2   | -2   | -2   | -2  | -2  | 0  |
|           | 2   |       |             | 0   | -2   | -2   | -2   | 0    | 0   | 0   | 0  |

TABLE 12 (Continued)

H05(main store): Load case 4203 on 13/2/85

| Load (kg) |     |         | 0           | 615 | 1261 | 1862 | 2511 | 1894 | 615 | 0  |
|-----------|-----|---------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |      |      |      |      |     |    |
| 39        | 1   | 39      | 0           | 108 | 214  | 326  | 446  | 340  | 123 | 9  |
|           | 2   |         | 9           | 108 | 219  | 323  | 448  | 351  | 122 | 10 |
| 40        | 1   | 22A     | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 2   |         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
| 41        | 1   | 40      | 0           | 81  | 163  | 251  | 344  | 264  | 95  | 7  |
|           | 2   |         | 5           | 83  | 163  | 248  | 346  | 271  | 93  | 7  |
| 42        | 1   | 21C     | 0           | -4  | -7   | -10  | -12  | -10  | -4  | 1  |
|           | 2   |         | 1           | -1  | -5   | -8   | -11  | -10  | -1  | 3  |
| 43        | 1   | 16      | 0           | -1  | -1   | -2   | -2   | -2   | 0   | 1  |
|           | 2   |         | 1           | 0   | 0    | -1   | -1   | -1   | 1   | 2  |
| 44        | 1   | 324.3SB | 0           | 138 | 270  | 409  | 554  | 426  | 152 | 17 |
|           | 2   |         | 17          | 142 | 277  | 405  | 557  | 439  | 152 | 17 |
| 45        | 1   | 324.3PT | 0           | 133 | 270  | 403  | 551  | 421  | 148 | 7  |
|           | 2   |         | 7           | 133 | 270  | 400  | 551  | 428  | 151 | 7  |
| 46        | 1   | 43      | 0           | 0   | 0    | 0    | 0    | -1   | 0   | 0  |
|           | 2   |         | 0           | 0   | -1   | -1   | -1   | -1   | -1  | -1 |
| 47        | 1   | 44      | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 2   |         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |

\* Sign reversed.

TABLE 13

H05 (main store): Load case 4303 on 27/3/85

| Load (kg) |           | 0           | 626 | 1268 | 1880 | 2492 | 1867 | 624 | 0  |
|-----------|-----------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run Gauge | Microstrain |     |      |      |      |      |     |    |
| 7         | 1 27.4    | 0           | 62  | **   | 191  | 251  | 182  | 59  | -3 |
|           | 2         | -4          | 60  | 122  | 185  | 248  | 181  | 59  | -6 |
|           | 3         | -6          | 57  | 124  | 184  | 247  | 185  | 55  | -7 |
| 8         | 1 27.1 *  | 0           | 55  |      | 172  | 230  | 169  | 55  | -1 |
|           | 2         | -4          | 52  | 111  | 169  | 229  | 170  | 53  | -5 |
|           | 3         | -5          | 51  | 109  | 167  | 225  | 172  | 52  | -5 |
| 9         | 1 35A     | 0           | 29  |      | 112  | 163  | 133  | 48  | -3 |
|           | 2         | -5          | 24  | 61   | 105  | 161  | 131  | 36  | -5 |
|           | 3         | -5          | 20  | 63   | 112  | 155  | 127  | 44  | -7 |
| 10        | 1 35B     | 0           | 10  |      | 42   | 63   | 51   | 19  | -2 |
|           | 2         | -2          | 8   | 22   | 41   | 65   | 53   | 14  | -2 |
|           | 3         | -2          | 7   | 24   | 42   | 59   | 49   | 17  | -3 |
| 11        | 1 35C     | 0           | 32  |      | 118  | 165  | 129  | 44  | -2 |
|           | 2         | 0           | 31  | 72   | 116  | 169  | 136  | 34  | -2 |
|           | 3         | -2          | 26  | 70   | 118  | 160  | 129  | 41  | -5 |
| 12        | 1 134T    | 0           | 0   |      | 0    | 0    | 0    | 0   | 0  |
|           | 2         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 3         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
| 13        | 1 27      | 0           | 0   |      | 0    | 0    | 0    | 0   | 0  |
|           | 2         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 3         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
| 14        | 1 28.1    | 0           | 62  |      | 200  | 270  | 202  | 68  | 2  |
|           | 2         | 0           | 63  | 132  | 202  | 275  | 208  | 67  | 2  |
|           | 3         | 2           | 62  | 133  | 202  | 270  | 210  | 68  | 2  |
| 15        | 1 29 *    | 0           | 3   |      | 10   | 14   | 10   | 5   | 2  |
|           | 2         | 3           | 7   | 10   | 14   | 17   | 15   | 8   | 5  |
|           | 3         | 5           | 8   | 12   | 15   | 19   | 17   | 12  | 8  |
| 16        | 1 28.7 *  | 0           | 73  |      | 241  | 321  | 243  | 84  | 2  |
|           | 2         | 0           | 75  | 155  | 237  | 321  | 246  | 80  | 2  |
|           | 3         | 2           | 72  | 157  | 239  | 319  | 249  | 84  | 3  |
| 17        | 1 31      | 0           | -5  |      | -10  | -11  | -10  | -8  | -2 |
|           | 2         | -3          | -3  | -3   | -7   | -7   | -5   | -7  | -5 |
|           | 3         | -5          | -3  | -7   | -10  | -13  | -11  | -10 | -7 |
| 18        | 1 33 *    | 0           | 3   |      | 15   | 18   | 13   | 3   | 0  |
|           | 2         | 0           | 7   | 13   | 17   | 22   | 17   | 5   | 0  |
|           | 3         | 0           | 7   | 12   | 15   | 18   | 17   | 3   | 0  |

TABLE 13 (Continued)

H05 (main store): Load case 4303 on 27/3/85

| Load (kg) |     |       | 0           | 626 | 1268 | 1880 | 2492 | 1867 | 624 | 0  |
|-----------|-----|-------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run | Gauge | Microstrain |     |      |      |      |      |     |    |
| 19        | 1   | 134S  | 0           | 0   |      | 0    | 2    | 2    | 2   | 0  |
|           | 2   |       | 0           | 2   | 2    | 2    | 2    | 2    | 2   | 2  |
|           | 3   |       | 2           | 2   | 3    | 3    | 5    | 3    | 2   | 2  |
| 20        | 1   | 36A   | 0           | 58  |      | 192  | 261  | 199  | 70  | -2 |
|           | 2   |       | -2          | 55  | 119  | 187  | 259  | 199  | 60  | -2 |
|           | 3   |       | -3          | 49  | 121  | 191  | 254  | 199  | 65  | -7 |
| 21        | 1   | 36B   | 0           | 38  |      | 133  | 183  | 142  | 48  | -2 |
|           | 2   |       | -3          | 36  | 52   | 131  | 183  | 142  | 41  | -2 |
|           | 3   |       | -2          | 32  | 55   | 135  | 179  | 143  | 48  | -2 |
| 22        | 1   | TEMP  | 0           | 0   |      | 0    | 0    | 0    | 0   | 0  |
|           | 2   |       | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 3   |       | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
| 23        | 1   | 4     | * 0         | 5   |      | 16   | 21   | 16   | 5   | 0  |
|           | 2   |       | 0           | 4   | 10   | 15   | 20   | 16   | 5   | -1 |
|           | 3   |       | -1          | 4   | 9    | 15   | 20   | 16   | 5   | -1 |
| 24        | 1   | 5     | 0           | 2   |      | 6    | 8    | 5    | 3   | 2  |
|           | 2   |       | 5           | 8   | 9    | 11   | 12   | 10   | 9   | 7  |
|           | 3   |       | 7           | 10  | 11   | 12   | 15   | 13   | 10  | 9  |
| 25        | 1   | 6     | 0           | 0   |      | -3   | -6   | -4   | 0   | 1  |
|           | 2   |       | 2           | 2   | 0    | -2   | -5   | -3   | 2   | 2  |
|           | 3   |       | 2           | 2   | 0    | -2   | -4   | -3   | 1   | 2  |
| 26        | 1   | 7     | 0           | 0   |      | 0    | 0    | 0    | 0   | 0  |
|           | 2   |       | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 3   |       | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
| 27        | 1   | 11    | 0           | 0   |      | 6    | 10   | 9    | 3   | -1 |
|           | 2   |       | -2          | -1  | 2    | 6    | 10   | 10   | 0   | -1 |
|           | 3   |       | -1          | -1  | 2    | 7    | 9    | 8    | 1   | -2 |
| 28        | 1   | 12    | 0           | -1  |      | -6   | -9   | -7   | -1  | 2  |
|           | 2   |       | 5           | 3   | 0    | -4   | -6   | -4   | 4   | 7  |
|           | 3   |       | 7           | 5   | 1    | -2   | -4   | -2   | 6   | 8  |
| 29        | 1   | 13    | 0           | 0   |      | -7   | -10  | -9   | -1  | 3  |
|           | 2   |       | 6           | 5   | 1    | -4   | -8   | -7   | 4   | 6  |
|           | 3   |       | 6           | 5   | 1    | -4   | -7   | -6   | 3   | 7  |
| 30        | 1   | 20    | * 0         | 5   |      | 21   | 27   | 19   | 6   | -2 |
|           | 2   |       | -5          | 2   | 8    | 14   | 21   | 14   | 0   | -6 |
|           | 3   |       | -6          | -2  | 6    | 13   | 19   | 13   | 0   | -8 |

TABLE 13 (Continued)

H05(main store): Load case 4303 on 27/3/55

| Load (kg) |     |       | 0           | 626 | 1268 | 1880 | 2492 | 1867 | 624 | 0   |
|-----------|-----|-------|-------------|-----|------|------|------|------|-----|-----|
| Ch        | Run | Gauge | Microstrain |     |      |      |      |      |     |     |
| 31        | 1   | 21    | 0           | 5   |      | 17   | 24   | 17   | 5   | -2  |
|           | 2   |       | -5          | 2   | 8    | 14   | 22   | 17   | 2   | -5  |
|           | 3   |       | -5          | 2   | 6    | 14   | 21   | 14   | 2   | -5  |
| 32        | 1   | 24    | * 0         | 8   |      | 30   | 40   | 30   | 8   | -3  |
|           | 2   |       | -6          | 3   | 13   | 25   | 35   | 25   | 3   | -8  |
|           | 3   |       | -8          | 1   | 12   | 23   | 32   | 23   | 1   | -10 |
| 33        | 1   | 25    | * 0         | 10  |      | 32   | 44   | 33   | 12  | 2   |
|           | 2   |       | 1           | 12  | 23   | 33   | 46   | 37   | 14  | 2   |
|           | 3   |       | 3           | 12  | 23   | 34   | 45   | 36   | 14  | 3   |
| 34        | 1   | 21T   | 0           | 0   |      | 0    | 0    | 0    | 0   | 0   |
|           | 2   |       | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0   |
|           | 3   |       | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0   |
| 35        | 1   | 37    | 0           | 88  |      | 296  | 401  | 305  | 104 | 2   |
|           | 2   |       | 0           | 91  | 192  | 295  | 409  | 315  | 99  | 3   |
|           | 3   |       | 2           | 88  | 194  | 300  | 401  | 315  | 108 | 3   |
| 36        | 1   | 14    | 0           | 0   |      | -1   | -1   | -1   | 1   | 1   |
|           | 2   |       | 2           | 1   | 1    | 1    | 0    | 0    | 1   | 1   |
|           | 3   |       | 1           | 1   | 1    | 0    | -1   | -1   | 1   | 1   |
| 37        | 1   | 38    | 0           | 98  |      | 323  | 433  | 325  | 108 | 2   |
|           | 2   |       | 3           | 105 | 215  | 325  | 440  | 335  | 108 | 5   |
|           | 3   |       | 5           | 101 | 217  | 327  | 435  | 339  | 114 | 5   |
| 38        | 1   | 18A   | 0           | 0   |      | 0    | 0    | 0    | 0   | 0   |
|           | 2   |       | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0   |
|           | 3   |       | 0           | 0   | 0    | 0    | 0    | 0    | -2  | -2  |
| 39        | 1   | 39    | 0           | 101 |      | 332  | 445  | 333  | 113 | 3   |
|           | 2   |       | 3           | 108 | 219  | 332  | 452  | 344  | 113 | 7   |
|           | 3   |       | 5           | 104 | 222  | 335  | 446  | 349  | 118 | 7   |
| 40        | 1   | 22A   | 0           | 0   |      | 0    | 0    | 0    | 0   | 0   |
|           | 2   |       | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0   |
|           | 3   |       | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0   |
| 41        | 1   | 40    | 0           | 77  |      | 258  | 350  | 264  | 90  | 2   |
|           | 2   |       | 4           | 83  | 170  | 258  | 355  | 272  | 90  | 5   |
|           | 3   |       | 5           | 81  | 172  | 264  | 351  | 276  | 95  | 7   |
| 42        | 1   | 21C   | 0           | -1  |      | -8   | -11  | -10  | -3  | 1   |
|           | 2   |       | 1           | -1  | -4   | -8   | -11  | -8   | -1  | 1   |
|           | 3   |       | 1           | -1  | -4   | -8   | -11  | -10  | -3  | 0   |

TABLE 13 (Continued)

H05(main store): Load case 4303 on 27/3/85

| Load (kg) |     |         | 0           | 626 | 1268 | 1880 | 2492 | 1867 | 624 | 0  |
|-----------|-----|---------|-------------|-----|------|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |      |      |      |      |     |    |
| 43        | 1   | 16      | 0           | -1  |      | -2   | -3   | -2   | -1  | 0  |
|           | 2   |         | 0           | -1  | -2   | -2   | -3   | -2   | -1  | -1 |
|           | 3   |         | -1          | -2  | -2   | -3   | -4   | -4   | -3  | -2 |
| 44        | 1   | 324.3SB | 0           | 125 |      | 402  | 544  | 405  | 135 | 0  |
|           | 2   |         | 0           | 128 | 267  | 402  | 554  | 419  | 132 | 3  |
|           | 3   |         | 0           | 125 | 267  | 402  | 540  | 415  | 135 | 0  |
| 45        | 1   | 324.3PT | 0           | 133 |      | 410  | 540  | 407  | 144 | 0  |
|           | 2   |         | 0           | 133 | 263  | 400  | 536  | 403  | 140 | 0  |
|           | 3   |         | 0           | 130 | 266  | 400  | 533  | 414  | 144 | 0  |
| 46        | 1   | 43      | 0           | 0   |      | 0    | -1   | 0    | 0   | 0  |
|           | 2   |         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 3   |         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
| 47        | 1   | 44      | 0           | 0   |      | 0    | 0    | 0    | 0   | 0  |
|           | 2   |         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |
|           | 3   |         | 0           | 0   | 0    | 0    | 0    | 0    | 0   | 0  |

\* Sign reversed.

\*\* Strain responses were not obtained for run 1, 50% m.c.1.

TABLE 14

H07(Sidewinder): Load case 2606-12 on 11/8/78

| Load (kg) |     |         | 0           | 465 | 925 | 1386 | 1842 | 1390 | 467 | 0 |
|-----------|-----|---------|-------------|-----|-----|------|------|------|-----|---|
| Ch        | Run | Gauge   | Microstrain |     |     |      |      |      |     |   |
| 5         | 1   | 27.2    | 0           | 75  | 155 | 237  | 316  | 244  | 82  | 0 |
|           | 2   |         | 0           | 74  | 155 | 234  | 316  | 243  | 81  | 0 |
| 6         | 1   | 27.3    | 0           | 53  | 110 | 168  | 225  | 175  | 61  | 0 |
|           | 2   |         | 0           | 53  | 110 | 165  | 224  | 175  | 60  | 0 |
| 7         | 1   | 27.4    | 0           | 78  | 159 | 240  | 320  | 243  | 82  | 0 |
|           | 2   |         | 0           | 78  | 160 | 238  | 321  | 241  | 80  | 0 |
| 8         | 1   | 27.5    | 0           | 17  | 42  | 69   | 94   | 78   | 26  | 0 |
|           | 2   |         | 0           | 17  | 42  | 67   | 94   | 77   | 26  | 0 |
| 9         | 1   | 1.6SB   | 0           | 101 | 202 | 306  | 408  | 309  | 106 | 0 |
|           | 2   |         | 0           | 101 | 204 | 305  | 409  | 309  | 103 | 0 |
| 10        | 1   | 2SB     | 0           | 84  | 170 | 258  | 345  | 264  | 92  | 1 |
|           | 2   |         | 1           | 85  | 172 | 257  | 346  | 264  | 89  | 1 |
| 11        | 1   | 223SB   | 0           | 113 | 230 | 353  | 472  | 361  | 125 | 0 |
|           | 2   |         | 0           | 114 | 232 | 352  | 473  | 362  | 123 | 0 |
| 12        | 1   | 320SB   | 0           | 177 | 365 | 551  | 733  | 556  | 193 | 1 |
|           | 2   |         | 1           | 181 | 369 | 550  | 736  | 559  | 189 | 1 |
| 13        | 1   | 323.3SB | 0           | 126 | 257 | 393  | 526  | 402  | 139 | 0 |
|           | 2   |         | 0           | 127 | 259 | 392  | 526  | 403  | 136 | 0 |
| 14        | 1   | 326SB   | 0           | 110 | 230 | 356  | 481  | 372  | 130 | 0 |
|           | 2   |         | 0           | 111 | 232 | 356  | 482  | 373  | 127 | 0 |
| 15        | 1   | 328SB   | 0           | 100 | 200 | 304  | 406  | 309  | 109 | 1 |
|           | 2   |         | 1           | 101 | 202 | 303  | 407  | 309  | 106 | 1 |
| 16        | 1   | 28.2    | 0           | 85  | 178 | 274  | 367  | 285  | 95  | 0 |
|           | 2   |         | 0           | 86  | 179 | 272  | 367  | 284  | 94  | 0 |
| 17        | 1   | 28.4    | 0           | 69  | 147 | 227  | 307  | 240  | 81  | 0 |
|           | 2   |         | 0           | 69  | 147 | 225  | 307  | 239  | 80  | 0 |
| 18        | 1   | 28.5    | 0           | 69  | 144 | 220  | 294  | 228  | 79  | 0 |
|           | 2   |         | 0           | 70  | 144 | 218  | 294  | 227  | 78  | 0 |
| 19        | 1   | 28.6    | 0           | 75  | 157 | 243  | 327  | 255  | 87  | 0 |
|           | 2   |         | 0           | 76  | 157 | 240  | 327  | 255  | 85  | 0 |
| 20        | 1   | 28.7    | 0           | 79  | 161 | 247  | 331  | 255  | 87  | 0 |
|           | 2   |         | 0           | 79  | 162 | 246  | 331  | 255  | 86  | 0 |

TABLE 14 (Continued)

H07(Sidewinder): Load case 2606-12 on 11/8-78

| Load (kg) |     |       | 0           | 465 | 925 | 1386 | 1842 | 1390 | 467 | 0 |
|-----------|-----|-------|-------------|-----|-----|------|------|------|-----|---|
| Ch        | Run | Gauge | Microstrain |     |     |      |      |      |     |   |
| 21        | 1   | 28.8  | 0           | 64  | 131 | 199  | 267  | 205  | 69  | 0 |
|           | 2   |       | 0           | 63  | 131 | 197  | 267  | 204  | 68  | 0 |
| 22        | 1   | 28.9  | 0           | 45  | 94  | 144  | 192  | 149  | 51  | 0 |
|           | 2   |       | 0           | 46  | 94  | 144  | 192  | 149  | 50  | 0 |
| 23        | 1   | 28.10 | 0           | 42  | 85  | 131  | 172  | 134  | 44  | 0 |
|           | 2   |       | 0           | 42  | 87  | 130  | 173  | 133  | 44  | 0 |
| 24        | 1   | 1.4SB | 0           | 90  | 185 | 283  | 380  | 289  | 100 | 0 |
|           | 2   |       | 0           | 92  | 187 | 282  | 381  | 289  | 99  | 0 |
| 25        | 1   | 16SB  | 0           | 144 | 297 | 452  | 601  | 459  | 158 | 0 |
|           | 2   |       | 0           | 146 | 300 | 450  | 603  | 461  | 154 | 0 |
| 26        | 1   | 18PT  | 0           | 93  | 190 | 291  | 389  | 299  | 99  | 0 |
|           | 2   |       | 0           | 93  | 192 | 288  | 389  | 298  | 98  | 0 |
| 27        | 1   | 27.1  | 0           | 65  | 131 | 202  | 271  | 208  | 72  | 0 |
|           | 2   |       | 0           | 66  | 133 | 200  | 272  | 208  | 71  | 0 |
| 28        | 1   | 28.1  | 0           | 78  | 162 | 249  | 333  | 256  | 88  | 0 |
|           | 2   |       | 0           | 80  | 164 | 249  | 334  | 257  | 87  | 0 |

TABLE 15

H07 (Sidewinder): Load case 2606-45 on 14/8 78

| Load (kg) |     |         | 0           | 167 | 923 | 1386 | 1851 | 1379 | 465 | 0 |
|-----------|-----|---------|-------------|-----|-----|------|------|------|-----|---|
| Ch        | Run | Gauge   | Microstrain |     |     |      |      |      |     |   |
| 5         | 4   | 27.2    | 0           | 75  | 152 | 233  | 313  | 238  | 81  | 0 |
|           | 5   |         | 0           | 73  | 154 | 233  | 314  | 240  | 81  | 0 |
| 6         | 4   | 27.3    | 0           | 54  | 110 | 168  | 226  | 173  | 61  | 0 |
|           | 5   |         | 0           | 54  | 110 | 167  | 226  | 173  | 60  | 0 |
| 7         | 4   | 27.4    | 0           | 79  | 159 | 239  | 321  | 239  | 83  | 1 |
|           | 5   |         | 1           | 79  | 161 | 239  | 322  | 241  | 82  | 1 |
| 8         | 4   | 27.5    | 0           | 20  | 43  | 70   | 97   | 79   | 28  | 1 |
|           | 5   |         | 1           | 19  | 43  | 70   | 97   | 79   | 27  | 1 |
| 9         | 4   | 1.6SB   | 0           | 104 | 207 | 313  | 417  | 312  | 105 | 0 |
|           | 5   |         | 0           | 104 | 206 | 309  | 417  | 311  | 106 | 0 |
| 10        | 4   | 2SB     | 0           | 38  | 174 | 264  | 353  | 266  | 92  | 0 |
|           | 5   |         | 0           | 87  | 174 | 261  | 353  | 266  | 92  | 0 |
| 11        | 4   | 223SB   | 0           | 118 | 236 | 360  | 482  | 365  | 126 | 1 |
|           | 5   |         | 1           | 117 | 236 | 356  | 482  | 365  | 126 | 1 |
| 12        | 4   | 320SB   | 0           | 188 | 373 | 563  | 748  | 563  | 193 | 0 |
|           | 5   |         | 0           | 184 | 374 | 558  | 751  | 564  | 194 | 0 |
| 13        | 4   | 323.3SB | 0           | 130 | 262 | 400  | 535  | 405  | 139 | 0 |
|           | 5   |         | 0           | 129 | 263 | 396  | 535  | 405  | 139 | 0 |
| 14        | 4   | 326SB   | 0           | 115 | 236 | 365  | 491  | 377  | 134 | 4 |
|           | 5   |         | 4           | 117 | 238 | 363  | 493  | 377  | 132 | 4 |
| 15        | 4   | 328SB   | 0           | 104 | 204 | 309  | 413  | 311  | 108 | 0 |
|           | 5   |         | 0           | 103 | 204 | 305  | 414  | 311  | 108 | 0 |
| 16        | 4   | 28.2    | 0           | 88  | 178 | 275  | 369  | 283  | 99  | 2 |
|           | 5   |         | 2           | 88  | 181 | 274  | 370  | 285  | 99  | 2 |
| 17        | 4   | 28.4    | 0           | 71  | 145 | 225  | 306  | 237  | 84  | 3 |
|           | 5   |         | 3           | 72  | 148 | 226  | 307  | 238  | 84  | 3 |
| 18        | 4   | 28.5    | 0           | 71  | 146 | 223  | 300  | 229  | 80  | 0 |
|           | 5   |         | 0           | 71  | 147 | 221  | 300  | 229  | 79  | 0 |
| 19        | 4   | 28.6    | 0           | 78  | 157 | 244  | 329  | 254  | 89  | 0 |
|           | 5   |         | 0           | 77  | 159 | 243  | 330  | 255  | 88  | 0 |
| 20        | 4   | 28.7    | 0           | 81  | 162 | 248  | 336  | 255  | 90  | 3 |
|           | 5   |         | 3           | 81  | 164 | 247  | 336  | 256  | 90  | 3 |

TABLE 15 (Continued)

H07(Sidewinder): Load case 2606-45 on 14 8/78

| Load (kg) |     |       | 0           | 467 | 923 | 1386 | 1851 | 1379 | 465 | 0 |
|-----------|-----|-------|-------------|-----|-----|------|------|------|-----|---|
| Ch        | Run | Gauge | Microstrain |     |     |      |      |      |     |   |
| 21        | 4   | 28.8  | 0           | 65  | 129 | 199  | 267  | 204  | 72  | 1 |
|           | 5   |       | 1           | 65  | 131 | 197  | 268  | 204  | 72  | 1 |
| 22        | 4   | 28.9  | 0           | 46  | 94  | 144  | 193  | 148  | 50  | 0 |
|           | 5   |       | 0           | 46  | 94  | 142  | 193  | 149  | 51  | 0 |
| 23        | 4   | 28.10 | 0           | 44  | 85  | 131  | 175  | 131  | 42  | 3 |
|           | 5   |       | 3           | 42  | 85  | 131  | 175  | 131  | 44  | 3 |
| 24        | 4   | 1.4SB | 0           | 95  | 190 | 289  | 388  | 292  | 99  | 0 |
|           | 5   |       | 0           | 94  | 190 | 285  | 388  | 292  | 99  | 0 |
| 25        | 4   | 16SB  | 0           | 150 | 303 | 459  | 612  | 462  | 157 | 0 |
|           | 5   |       | 0           | 149 | 304 | 455  | 613  | 463  | 158 | 0 |
| 26        | 4   | 18PT  | 0           | 96  | 189 | 290  | 390  | 294  | 102 | 0 |
|           | 5   |       | 0           | 94  | 191 | 290  | 390  | 297  | 100 | 0 |
| 27        | 4   | 27.1  | 0           | 66  | 131 | 202  | 273  | 206  | 71  | 0 |
|           | 5   |       | 0           | 67  | 132 | 201  | 274  | 207  | 72  | 0 |
| 28        | 4   | 28.1  | 0           | 81  | 165 | 253  | 338  | 257  | 89  | 0 |
|           | 5   |       | 0           | 81  | 166 | 251  | 339  | 259  | 89  | 0 |

TABLE 16

H07(Sidewinder): Load case 2706 on 18/12/78

| Load (kg) |     |         | 0           | 463 | 919 | 1383 | 1844 | 1386 | 463 | 0  |
|-----------|-----|---------|-------------|-----|-----|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |     |      |      |      |     |    |
| 5         | 1   | 27.2    | 0           | 72  | 152 | 229  | 309  | 236  | 81  | 0  |
|           | 2   |         | 0           | 72  | 149 | 228  | 308  | 235  | 75  | 0  |
| 6         | 1   | 27.3    | 0           | 58  | 114 | 169  | 229  | 178  | 62  | 0  |
|           | 2   |         | 0           | 57  | 111 | 169  | 229  | 176  | 60  | 0  |
| 7         | 1   | 27.4    | 0           | 78  | 159 | 237  | 320  | 240  | 82  | 0  |
|           | 2   |         | 0           | 77  | 155 | 237  | 319  | 238  | 78  | 0  |
| 8         | 1   | 27.5    | 0           | 18  | 44  | 69   | 95   | 78   | 26  | -2 |
|           | 2   |         | -2          | 17  | 42  | 66   | 94   | 74   | 17  | -2 |
| 9         | 1   | 1.6SB   | 0           | 105 | 209 | 312  | 420  | 314  | 109 | 1  |
|           | 2   |         | 1           | 106 | 206 | 313  | 420  | 317  | 107 | 1  |
| 10        | 1   | 2SB     | 0           | 88  | 176 | 263  | 356  | 268  | 92  | 0  |
|           | 2   |         | 0           | 89  | 173 | 265  | 355  | 269  | 91  | 0  |
| 11        | 1   | 223SB   | 0           | 120 | 241 | 360  | 486  | 369  | 126 | 0  |
|           | 2   |         | 0           | 119 | 236 | 361  | 486  | 371  | 125 | 0  |
| 12        | 1   | 320SB   | 0           | 186 | 371 | 551  | 742  | 554  | 189 | 0  |
|           | 2   |         | 0           | 186 | 368 | 554  | 743  | 559  | 185 | 0  |
| 13        | 1   | 323.3SB | 0           | 132 | 271 | 405  | 544  | 410  | 140 | 0  |
|           | 2   |         | 0           | 134 | 265 | 405  | 543  | 414  | 137 | 0  |
| 14        | 1   | 326SB   | 0           | 122 | 252 | 375  | 504  | 385  | 131 | 1  |
|           | 2   |         | 1           | 124 | 246 | 377  | 504  | 389  | 131 | 1  |
| 15        | 1   | 328SB   | 0           | 104 | 208 | 311  | 418  | 315  | 108 | 0  |
|           | 2   |         | 0           | 103 | 203 | 311  | 417  | 319  | 107 | 0  |
| 16        | 1   | 28.2    | 0           | 86  | 178 | 270  | 366  | 284  | 100 | 3  |
|           | 2   |         | 3           | 87  | 178 | 270  | 367  | 284  | 95  | 3  |
| 17        | 1   | 28.4    | 0           | 71  | 149 | 228  | 311  | 244  | 85  | 2  |
|           | 2   |         | 2           | 73  | 148 | 229  | 311  | 243  | 82  | 2  |
| 18        | 1   | 28.5    | 0           | 75  | 155 | 232  | 314  | 243  | 85  | 0  |
|           | 2   |         | 0           | 76  | 151 | 233  | 312  | 243  | 83  | 0  |
| 19        | 1   | 28.6    | 0           | 74  | 154 | 237  | 322  | 253  | 89  | 1  |
|           | 2   |         | 1           | 74  | 153 | 237  | 321  | 253  | 82  | 1  |
| 20        | 1   | 28.7    | 0           | 81  | 166 | 252  | 342  | 263  | 92  | 1  |
|           | 2   |         | 1           | 81  | 165 | 252  | 342  | 264  | 89  | 1  |

TABLE 16 (Continued)

H07 (Sidewinder): Load case 2706 on 18/12/78

| Load (kg) |     |       | 0           | 463 | 919 | 1353 | 1844 | 1386 | 463 | 0 |
|-----------|-----|-------|-------------|-----|-----|------|------|------|-----|---|
| Ch        | Run | Gauge | Microstrain |     |     |      |      |      |     |   |
| 21        | 1   | 28.8  | 0           | 68  | 138 | 207  | 280  | 216  | 77  | 3 |
|           | 2   |       | 3           | 69  | 136 | 205  | 280  | 215  | 74  | 3 |
| 22        | 1   | 28.9  | 0           | 45  | 94  | 142  | 191  | 148  | 51  | 0 |
|           | 2   |       | 0           | 47  | 94  | 144  | 193  | 150  | 49  | 0 |
| 23        | 1   | 28.10 | 0           | 44  | 92  | 137  | 183  | 141  | 45  | 3 |
|           | 2   |       | 3           | 47  | 91  | 138  | 183  | 140  | 47  | 3 |
| 24        | 1   | 1.4SB | 0           | 97  | 194 | 291  | 394  | 297  | 101 | 1 |
|           | 2   |       | 1           | 97  | 190 | 291  | 392  | 298  | 100 | 1 |
| 25        | 1   | 16SB  | 0           | 157 | 313 | 464  | 622  | 468  | 158 | 1 |
|           | 2   |       | 1           | 156 | 309 | 464  | 621  | 472  | 156 | 1 |
| 26        | 1   | 18PT  | 0           | 89  | 184 | 279  | 376  | 289  | 99  | 0 |
|           | 2   |       | 0           | 91  | 181 | 278  | 375  | 287  | 94  | 0 |
| 27        | 1   | 27.1  | 0           | 69  | 138 | 206  | 279  | 214  | 73  | 0 |
|           | 2   |       | 0           | 69  | 134 | 206  | 277  | 214  | 73  | 0 |
| 28        | 1   | 28.1  | 0           | 84  | 172 | 258  | 350  | 268  | 94  | 1 |
|           | 2   |       | 1           | 85  | 169 | 259  | 350  | 270  | 92  | 1 |

TABLE 17

H07(Sidewinder): Load case 2906 on 25/1/79

| Load (kg) |     |         | 0           | 467 | 919 | 1386 | 1776 | 1386 | 465 | 0   |
|-----------|-----|---------|-------------|-----|-----|------|------|------|-----|-----|
| Ch        | Run | Gauge   | Microstrain |     |     |      |      |      |     |     |
| 5         | 1   | 27.2    | 0           | 65  | 142 | 221  | 257  | 223  | 67  | -10 |
|           | 2   |         | -10         | 61  | 137 | 217  | 255  | 221  | 67  | -10 |
| 6         | 1   | 27.3    | 0           | 50  | 106 | 161  | 209  | 170  | 57  | 0   |
|           | 2   |         | 0           | 50  | 104 | 163  | 209  | 171  | 58  | 0   |
| 7         | 1   | 27.4    | 0           | 77  | 155 | 233  | 300  | 232  | 77  | 0   |
|           | 2   |         | 0           | 75  | 151 | 231  | 300  | 232  | 80  | 0   |
| 8         | 1   | 27.5    | 0           | 16  | 38  | 63   | 84   | 71   | 24  | 0   |
|           | 2   |         | 0           | 16  | 38  | 63   | 84   | 71   | 24  | 0   |
| 9         | 1   | 1.6SB   | 0           | 103 | 208 | 311  | 397  | 314  | 107 | 0   |
|           | 2   |         | 0           | 106 | 204 | 314  | 399  | 316  | 108 | 0   |
| 10        | 1   | 2SB     | 0           | 81  | 164 | 245  | 315  | 250  | 86  | 1   |
|           | 2   |         | 1           | 84  | 162 | 248  | 316  | 251  | 87  | 1   |
| 11        | 1   | 223SB   | 0           | 112 | 226 | 337  | 431  | 344  | 118 | 2   |
|           | 2   |         | 2           | 115 | 223 | 340  | 434  | 345  | 120 | 2   |
| 12        | 1   | 320SB   | 0           | 157 | 330 | 501  | 647  | 522  | 178 | 0   |
|           | 2   |         | 0           | 159 | 322 | 503  | 649  | 522  | 178 | 0   |
| 13        | 1   | 323.3SB | 0           | 118 | 239 | 357  | 458  | 365  | 129 | 3   |
|           | 2   |         | 3           | 123 | 236 | 362  | 462  | 367  | 131 | 3   |
| 14        | 1   | 326SB   | 0           | 99  | 203 | 306  | 396  | 318  | 112 | 3   |
|           | 2   |         | 3           | 103 | 199 | 310  | 397  | 319  | 113 | 3   |
| 15        | 1   | 328SB   | 0           | 99  | 198 | 294  | 376  | 299  | 102 | 2   |
|           | 2   |         | 2           | 102 | 195 | 297  | 379  | 301  | 104 | 2   |
| 16        | 1   | 28.2    | 0           | 83  | 168 | 255  | 329  | 263  | 91  | 2   |
|           | 2   |         | 2           | 84  | 167 | 257  | 331  | 264  | 93  | 2   |
| 17        | 1   | 28.4    | 0           | 69  | 140 | 215  | 280  | 225  | 78  | 1   |
|           | 2   |         | 1           | 69  | 139 | 216  | 281  | 225  | 79  | 1   |
| 18        | 1   | 28.5    | 0           | 66  | 135 | 202  | 259  | 210  | 73  | 1   |
|           | 2   |         | 1           | 68  | 132 | 204  | 261  | 211  | 74  | 1   |
| 19        | 1   | 28.6    | 0           | 71  | 146 | 225  | 291  | 233  | 80  | 2   |
|           | 2   |         | 2           | 73  | 146 | 226  | 294  | 235  | 85  | 2   |
| 20        | 1   | 28.7    | 0           | 81  | 165 | 253  | 327  | 260  | 89  | 0   |
|           | 2   |         | 0           | 83  | 165 | 255  | 330  | 263  | 92  | 0   |

TABLE 17 (Continued)

H07(Sidewinder): Load case 2906 on 25/1/79

| Load (kg) |     |       | 0           | 467 | 919 | 1386 | 1776 | 1386 | 465 | 0 |
|-----------|-----|-------|-------------|-----|-----|------|------|------|-----|---|
| Ch        | Run | Gauge | Microstrain |     |     |      |      |      |     |   |
| 21        | 1   | 28.8  | 0           | 65  | 134 | 201  | 262  | 208  | 72  | 0 |
|           | 2   |       | 0           | 65  | 131 | 204  | 264  | 209  | 73  | 0 |
| 22        | 1   | 28.9  | 0           | 44  | 92  | 141  | 182  | 145  | 48  | 0 |
|           | 2   |       | 0           | 44  | 90  | 141  | 181  | 145  | 47  | 0 |
| 23        | 1   | 28.10 | 0           | 42  | 84  | 128  | 164  | 129  | 43  | 0 |
|           | 2   |       | 0           | 42  | 83  | 127  | 163  | 129  | 44  | 0 |
| 24        | 1   | 1.4SB | 0           | 89  | 181 | 270  | 346  | 276  | 95  | 2 |
|           | 2   |       | 2           | 92  | 177 | 273  | 349  | 278  | 98  | 2 |
| 25        | 1   | 16SB  | 0           | 132 | 270 | 404  | 517  | 412  | 143 | 1 |
|           | 2   |       | 1           | 138 | 265 | 408  | 521  | 414  | 145 | 1 |
| 26        | 1   | 18PT  | 0           | 91  | 181 | 276  | 357  | 282  | 98  | 4 |
|           | 2   |       | 4           | 92  | 181 | 277  | 362  | 286  | 105 | 4 |
| 27        | 1   | 27.1  | 0           | 66  | 132 | 198  | 255  | 202  | 70  | 1 |
|           | 2   |       | 1           | 68  | 130 | 199  | 255  | 203  | 71  | 1 |
| 28        | 1   | 28.1  | 0           | 76  | 154 | 233  | 299  | 239  | 82  | 1 |
|           | 2   |       | 1           | 78  | 152 | 234  | 299  | 239  | 82  | 1 |

TABLE 18

H07 (Sidewinder): Load case 3506 on 2/12/81

| Load (kg) |     |          | 0           | 463 | 921 | 1386 | 1848 | 1390 | 463 | 0   |
|-----------|-----|----------|-------------|-----|-----|------|------|------|-----|-----|
| Ch        | Run | Gauge    | Microstrain |     |     |      |      |      |     |     |
| 4         | 1   | 323.5SB  | 0           | 121 | 248 | 386  | 528  | 407  | 138 | -2  |
|           | 2   |          | -2          | 117 | 248 | 384  | 526  | 407  | 136 | -4  |
| 5         | 1   | 223SB *  | 0           | 113 | 227 | 349  | 470  | 357  | 119 | 0   |
|           | 2   |          | 0           | 108 | 227 | 349  | 470  | 359  | 119 | 0   |
| 6         | 1   | 1.6SB *  | 0           | 107 | 213 | 322  | 433  | 326  | 110 | 0   |
|           | 2   |          | 0           | 104 | 212 | 322  | 433  | 328  | 108 | 0   |
| 7         | 1   | 2SB *    | 0           | 83  | 168 | 258  | 349  | 265  | 88  | 0   |
|           | 2   |          | 0           | 81  | 168 | 259  | 350  | 268  | 88  | 0   |
| 8         | 1   | 325.1SB  | 0           | 168 | 345 | 531  | 725  | 555  | 186 | 0   |
|           | 2   |          | 0           | 166 | 345 | 534  | 725  | 559  | 184 | 0   |
| 9         | 1   | 324.3SB  | 0           | 147 | 304 | 475  | 648  | 491  | 157 | -14 |
|           | 2   |          | -17         | 131 | 292 | 463  | 636  | 484  | 145 | -26 |
| 10        | 1   | 324.1SB  | 0           | 146 | 296 | 456  | 621  | 476  | 161 | 0   |
|           | 2   |          | 0           | 141 | 296 | 459  | 621  | 478  | 159 | 0   |
| 11        | 1   | 324.4SB  | 0           | 137 | 278 | 425  | 577  | 438  | 147 | -2  |
|           | 2   |          | -2          | 132 | 275 | 425  | 575  | 440  | 145 | -2  |
| 12        | 1   | 323.3SB* | 0           | 117 | 241 | 372  | 508  | 386  | 129 | 0   |
|           | 2   |          | 0           | 112 | 241 | 374  | 508  | 388  | 126 | 0   |
| 13        | 1   | 323.1SB* | 0           | 92  | 183 | 277  | 372  | 279  | 95  | 3   |
|           | 2   |          | 3           | 91  | 184 | 278  | 372  | 282  | 95  | 4   |
| 14        | 1   | 324.4PT  | 0           | 142 | 282 | 428  | 577  | 441  | 148 | -4  |
|           | 2   |          | -4          | 136 | 278 | 428  | 579  | 437  | 146 | -4  |
| 15        | 1   | 323.5PT  | 0           | 129 | 265 | 410  | 556  | 429  | 147 | -2  |
|           | 2   |          | -2          | 126 | 263 | 410  | 558  | 427  | 145 | -6  |
| 16        | 1   | 18PT *   | 0           | 95  | 191 | 289  | 391  | 298  | 100 | 0   |
|           | 2   |          | -2          | 91  | 189 | 292  | 392  | 297  | 98  | 0   |
| 17        | 1   | 325.1PT  | 0           | 171 | 345 | 531  | 721  | 552  | 186 | -2  |
|           | 2   |          | -2          | 164 | 340 | 533  | 721  | 547  | 181 | -5  |
| 18        | 1   | 324.3PT  | 0           | 160 | 321 | 493  | 675  | 522  | 182 | 0   |
|           | 2   |          | 0           | 156 | 319 | 496  | 680  | 522  | 179 | 0   |
| 19        | 1   | 324.1PT  | 0           | 153 | 305 | 465  | 631  | 484  | 168 | 0   |
|           | 2   |          | 0           | 148 | 301 | 469  | 635  | 482  | 166 | 0   |

TABLE 15 (Continued)

H07(Sidewinder): Load case 3506 on 2/12/81

| Load (kg) |     |       |   | 0           | 463 | 921 | 1386 | 1848 | 1390 | 463 | 0  |
|-----------|-----|-------|---|-------------|-----|-----|------|------|------|-----|----|
| Ch        | Run | Gauge |   | Microstrain |     |     |      |      |      |     |    |
| 20        | 1   | 28.6  | * | 0           | 76  | 160 | 248  | 338  | 264  | 91  | 2  |
|           | 2   |       |   | 2           | 76  | 161 | 252  | 340  | 264  | 91  | 2  |
| 21        | 1   | 28.7  | * | 0           | 81  | 169 | 261  | 354  | 274  | 92  | 0  |
|           | 2   |       |   | 0           | 79  | 169 | 262  | 354  | 274  | 91  | 0  |
| 22        | 1   | 27.1  |   | 0           | 68  | 136 | 207  | 280  | 213  | 72  | 0  |
|           | 2   |       |   | 0           | 67  | 136 | 208  | 280  | 213  | 70  | -1 |
| 23        | 1   | 27.4  | * | 0           | 50  | 157 | 237  | 320  | 243  | 82  | 2  |
|           | 2   |       |   | 2           | 77  | 156 | 239  | 321  | 242  | 81  | 2  |
| 24        | 1   | 28.1  |   | 0           | 80  | 166 | 258  | 352  | 272  | 94  | 1  |
|           | 2   |       |   | 2           | 81  | 168 | 261  | 352  | 274  | 93  | 1  |
| 25        | 1   | 28.2  | * | 0           | 86  | 179 | 276  | 373  | 291  | 99  | 1  |
|           | 2   |       |   | 1           | 85  | 179 | 279  | 376  | 290  | 99  | 1  |
| 26        | 1   | 28.8  | * | 0           | 66  | 136 | 209  | 284  | 219  | 73  | 0  |
|           | 2   |       |   | 0           | 63  | 133 | 209  | 284  | 218  | 71  | -2 |
| 27        | 1   | 28.4  | * | 0           | 71  | 150 | 235  | 321  | 251  | 86  | 0  |
|           | 2   |       |   | 1           | 70  | 151 | 237  | 322  | 251  | 86  | 1  |
| 28        | 1   | 1.4SB |   | 0           | 82  | 162 | 247  | 334  | 253  | 85  | 0  |
|           | 2   |       |   | 0           | 79  | 162 | 247  | 332  | 255  | 85  | -2 |
| 29        | 1   | 16TSB |   | 0           | 145 | 293 | 447  | 603  | 457  | 152 | -2 |
|           | 2   |       |   | -2          | 141 | 293 | 449  | 603  | 462  | 152 | -2 |

\* Sign reversed.

TABLE 19

H07(Sidewinder): Load case 3606 on 8/7/82

| Load (kg) |     |         | 0           | 483 | 919 | 1382 | 1849 | 1389 | 469 | 0  |
|-----------|-----|---------|-------------|-----|-----|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |     |      |      |      |     |    |
| 4         | 1   | 323.5SB | 0           | 127 | 269 | 417  | 572  | 442  | 148 | 0  |
|           | 2   |         | 0           | 131 | 267 | 415  | 576  | 442  | 154 | 0  |
|           | 3   |         | 0           | 127 | 267 | 415  | 569  | 436  | 152 | 0  |
| 5         | 1   | 223SB   | 0           | 117 | 236 | 359  | 485  | 370  | 123 | 0  |
|           | 2   |         | 0           | 119 | 236 | 359  | 487  | 370  | 130 | 0  |
|           | 3   |         | 0           | 117 | 236 | 359  | 485  | 368  | 126 | 0  |
| 6         | 1   | 1.6TSB  | 0           | 107 | 213 | 317  | 427  | 322  | 110 | 0  |
|           | 2   |         | 0           | 108 | 212 | 317  | 430  | 322  | 114 | 0  |
|           | 3   |         | 0           | 105 | 212 | 317  | 427  | 320  | 111 | 0  |
| 7         | 1   | 2TSB    | 0           | 88  | 177 | 269  | 360  | 276  | 94  | 0  |
|           | 2   |         | 1           | 90  | 177 | 268  | 363  | 276  | 98  | 1  |
|           | 3   |         | 1           | 88  | 178 | 268  | 360  | 273  | 95  | 1  |
| 8         | 1   | 325.1SB | 0           | 182 | 371 | 564  | 753  | 573  | 186 | 0  |
|           | 2   |         | 0           | 184 | 368 | 562  | 755  | 571  | 193 | 0  |
|           | 3   |         | 0           | 177 | 368 | 562  | 751  | 566  | 189 | 0  |
| 9         | 1   | 324.3SB | 0           | 161 | 335 | 515  | 700  | 536  | 176 | 0  |
|           | 2   |         | 0           | 164 | 332 | 513  | 702  | 534  | 183 | -2 |
|           | 3   |         | -2          | 159 | 332 | 510  | 695  | 527  | 178 | -5 |
| 10        | 1   | 324.1SB | 0           | 152 | 311 | 476  | 647  | 495  | 165 | 0  |
|           | 2   |         | 0           | 154 | 311 | 474  | 651  | 495  | 171 | 0  |
|           | 3   |         | 0           | 152 | 311 | 474  | 645  | 491  | 169 | 0  |
| 11        | 1   | 324.4SB | 0           | 141 | 284 | 431  | 585  | 444  | 150 | 0  |
|           | 2   |         | 0           | 143 | 284 | 431  | 590  | 444  | 156 | 0  |
|           | 3   |         | 0           | 139 | 286 | 431  | 585  | 442  | 154 | 0  |
| 12        | 1   | 323.3SB | 0           | 126 | 260 | 396  | 536  | 410  | 138 | 0  |
|           | 2   |         | 0           | 131 | 260 | 396  | 539  | 410  | 143 | 0  |
|           | 3   |         | 0           | 126 | 260 | 393  | 534  | 407  | 143 | 0  |
| 13        | 1   | 323.1SB | 0           | 92  | 180 | 267  | 358  | 268  | 91  | 0  |
|           | 2   |         | 1           | 92  | 180 | 268  | 359  | 268  | 94  | 1  |
|           | 3   |         | 1           | 91  | 180 | 268  | 358  | 267  | 92  | 1  |
| 14        | 1   | 324.4PT | 0           | 142 | 280 | 433  | 583  | 443  | 148 | 0  |
|           | 2   |         | 2           | 142 | 282 | 430  | 583  | 441  | 153 | 2  |
|           | 3   |         | 2           | 140 | 284 | 430  | 583  | 441  | 148 | 2  |
| 15        | 1   | 323.5PT | 0           | 135 | 272 | 429  | 580  | 446  | 147 | 0  |
|           | 2   |         | 0           | 133 | 274 | 425  | 580  | 442  | 151 | -2 |
|           | 3   |         | -2          | 131 | 274 | 425  | 580  | 442  | 149 | -2 |

TABLE 19 (Continued)

H07(Sidewinder): Load case 3606 on 8/7/82

| Load (kg) |     |         | 0           | 483 | 919 | 1382 | 1849 | 1389 | 469 | 0  |
|-----------|-----|---------|-------------|-----|-----|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |     |      |      |      |     |    |
| 16        | 1   | 18TPT   | 0           | 98  | 195 | 303  | 406  | 310  | 103 | 0  |
|           | 2   |         | 0           | 98  | 197 | 301  | 406  | 309  | 106 | 0  |
|           | 3   |         | 0           | 97  | 197 | 301  | 407  | 309  | 103 | 0  |
| 17        | 1   | 325.1PT | 0           | 176 | 356 | 555  | 743  | 567  | 183 | 0  |
|           | 2   |         | 0           | 173 | 356 | 551  | 743  | 565  | 187 | -2 |
|           | 3   |         | -2          | 171 | 356 | 551  | 745  | 562  | 183 | -2 |
| 18        | 1   | 324.3PT | 0           | 160 | 326 | 514  | 699  | 538  | 175 | 0  |
|           | 2   |         | 0           | 160 | 328 | 512  | 699  | 533  | 182 | 0  |
|           | 3   |         | 0           | 156 | 328 | 510  | 699  | 533  | 179 | -2 |
| 19        | 1   | 324.1PT | 0           | 153 | 305 | 476  | 646  | 493  | 161 | 0  |
|           | 2   |         | -2          | 151 | 308 | 473  | 644  | 489  | 166 | -2 |
|           | 3   |         | -2          | 148 | 308 | 473  | 646  | 489  | 164 | -2 |
| 20        | 1   | 28.6    | 0           | 83  | 170 | 266  | 359  | 278  | 90  | 0  |
|           | 2   |         | 0           | 84  | 172 | 265  | 360  | 277  | 94  | 0  |
|           | 3   |         | 0           | 82  | 172 | 265  | 360  | 277  | 93  | 0  |
| 21        | 1   | 28.7    | 0           | 82  | 170 | 262  | 357  | 275  | 91  | 0  |
|           | 2   |         | 0           | 84  | 170 | 262  | 359  | 274  | 94  | -1 |
|           | 3   |         | -1          | 81  | 170 | 261  | 357  | 272  | 92  | -1 |
| 22        | 1   | 27.1    | 0           | 70  | 137 | 211  | 284  | 215  | 72  | 0  |
|           | 2   |         | 1           | 69  | 137 | 210  | 284  | 215  | 74  | 0  |
|           | 3   |         | 0           | 68  | 137 | 210  | 282  | 213  | 72  | -1 |
| 23        | 1   | 27.4    | 0           | 77  | 153 | 236  | 320  | 244  | 82  | 0  |
|           | 2   |         | 0           | 76  | 154 | 235  | 320  | 243  | 84  | 0  |
|           | 3   |         | 0           | 76  | 155 | 235  | 319  | 241  | 82  | 0  |
| 24        | 1   | 28.1    | 0           | 85  | 176 | 270  | 362  | 279  | 93  | 0  |
|           | 2   |         | 0           | 87  | 176 | 269  | 364  | 278  | 96  | 0  |
|           | 3   |         | 0           | 85  | 177 | 269  | 362  | 277  | 95  | 1  |
| 25        | 1   | 28.2    | 0           | 92  | 188 | 295  | 395  | 305  | 99  | 0  |
|           | 2   |         | 1           | 93  | 190 | 293  | 396  | 304  | 102 | 1  |
|           | 3   |         | 1           | 91  | 191 | 293  | 396  | 303  | 101 | 1  |
| 26        | 1   | 28.8    | 0           | 67  | 137 | 212  | 287  | 221  | 75  | 0  |
|           | 2   |         | 0           | 67  | 137 | 210  | 287  | 221  | 77  | 0  |
|           | 3   |         | 0           | 65  | 136 | 210  | 286  | 219  | 75  | -1 |
| 27        | 1   | 28.4    | 0           | 77  | 156 | 244  | 330  | 256  | 85  | 0  |
|           | 2   |         | 1           | 78  | 156 | 243  | 331  | 255  | 87  | 1  |
|           | 3   |         | 1           | 74  | 157 | 243  | 331  | 254  | 87  | 2  |

TABLE 19 (Continued)

H07(Sidewinder): Load case 3606 on 8/7/82

| Load (kg) |     |        | 0           | 483 | 919 | 1382 | 1849 | 1389 | 469 | 0 |
|-----------|-----|--------|-------------|-----|-----|------|------|------|-----|---|
| Ch        | Run | Gauge  | Microstrain |     |     |      |      |      |     |   |
| 28        | 1   | 1.4TSB | 0           | 33  | 167 | 252  | 337  | 256  | 88  | 0 |
|           | 2   |        | 0           | 85  | 165 | 250  | 338  | 256  | 90  | 0 |
|           | 3   |        | 0           | 82  | 167 | 250  | 337  | 255  | 88  | 0 |
| 29        | 1   | 27.2   | 0           | 75  | 151 | 237  | 320  | 249  | 82  | 0 |
|           | 2   |        | 2           | 75  | 153 | 237  | 323  | 247  | 86  | 2 |
|           | 3   |        | 2           | 73  | 153 | 237  | 320  | 247  | 84  | 2 |

TABLE 20

H07 (Sidewinder): Load case 4106 on 12/12/84

| Load (kg) |     |        | 0           | 465 | 919 | 1383 | 1842 | 1388 | 465 | 0  |
|-----------|-----|--------|-------------|-----|-----|------|------|------|-----|----|
| Ch        | Run | Gauge  | Microstrain |     |     |      |      |      |     |    |
| 7         | 1   | 27.4   | 0           | 83  | 158 | 238  | 319  | 237  | 82  | 0  |
| 8         | 1   | 27.1 * | 0           | 68  | 134 | 205  | 278  | 211  | 72  | 0  |
| 9         | 1   | 35A    | 0           | 36  | 83  | 136  | 201  | 165  | 58  | 2  |
| 10        | 1   | 35B    | 0           | 14  | 36  | 59   | 92   | 75   | 25  | 0  |
| 11        | 1   | 35C    | 0           | 36  | 82  | 135  | 192  | 155  | 49  | 0  |
| 12        | 1   | 134T   | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
| 13        | 1   | 27     | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
| 14        | 1   | 28.1   | 0           | 82  | 165 | 255  | 347  | 272  | 93  | 2  |
| 15        | 1   | 29     | 0           | -3  | -5  | -8   | -12  | -8   | -2  | 2  |
| 16        | 1   | 28.7 * | 0           | 80  | 164 | 253  | 347  | 267  | 91  | 0  |
| 17        | 1   | 31     | 0           | 3   | 2   | -2   | 0    | 2    | 3   | 2  |
| 18        | 1   | 33     | 0           | -5  | -8  | -10  | -17  | -12  | -5  | 0  |
| 19        | 1   | 134S   | 0           | 0   | 2   | 2    | 2    | 2    | 0   | 0  |
| 20        | 1   | 36A    | 0           | 68  | 145 | 230  | 315  | 249  | 85  | 2  |
| 21        | 1   | 36B    | 0           | 46  | 102 | 162  | 227  | 179  | 61  | 0  |
| 22        | 1   | TEMP   | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
| 23        | 1   | 4      | 0           | -2  | -3  | -5   | -6   | -4   | -1  | 1  |
| 24        | 1   | 5      | 0           | 4   | 6   | 9    | 10   | 7    | 2   | 0  |
| 25        | 1   | 6      | 0           | 2   | 4   | 4    | 5    | 3    | 1   | 0  |
| 26        | 1   | 7      | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
| 27        | 1   | 11     | 0           | -3  | -5  | -7   | -7   | -3   | 0   | 1  |
| 28        | 1   | 12     | 0           | 0   | 0   | 0    | 0    | 0    | -1  | -1 |
| 29        | 1   | 13     | 0           | 3   | 6   | 7    | 8    | 6    | 2   | 1  |
| 30        | 1   | 20 *   | 0           | 5   | 10  | 16   | 21   | 16   | 6   | 2  |

TABLE 20 (Continued)

H07(Sidewinder): Load case 4106 on 12/12/84

| Load (kg) |           | 0           | 465 | 919 | 1383 | 1842 | 1388 | 465 | 0  |
|-----------|-----------|-------------|-----|-----|------|------|------|-----|----|
| Ch        | Run Gauge | Microstrain |     |     |      |      |      |     |    |
| 31        | 1 21      | 0           | 6   | 11  | 16   | 21   | 17   | 8   | 2  |
| 32        | 1 24      | * 0         | 6   | 12  | 20   | 28   | 22   | 8   | 1  |
| 33        | 1 25      | * 0         | 7   | 14  | 20   | 29   | 23   | 9   | 1  |
| 34        | 1 21T     | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
| 35        | 1 37      | 0           | 94  | 195 | 305  | 424  | 332  | 116 | 3  |
| 36        | 1 14      | 0           | 0   | 0   | 0    | 0    | 0    | 1   | 2  |
| 37        | 1 38      | 0           | 108 | 222 | 342  | 472  | 365  | 122 | 0  |
| 38        | 1 18A     | 0           | -2  | -2  | -2   | -2   | 0    | 0   | 0  |
| 39        | 1 39      | 0           | 111 | 229 | 353  | 481  | 373  | 127 | 2  |
| 40        | 1 22A     | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
| 41        | 1 40      | 0           | 81  | 169 | 264  | 366  | 283  | 95  | 2  |
| 42        | 1 21C     | 0           | -3  | -5  | -7   | -10  | -8   | -3  | 1  |
| 43        | 1 16      | 0           | 0   | -1  | -1   | -1   | -1   | 1   | 1  |
| 44        | 1 324.3SB | 0           | 162 | 324 | 500  | 689  | 537  | 186 | 7  |
| 45        | 1 324.3PT | 0           | 162 | 328 | 508  | 695  | 533  | 180 | 0  |
| 46        | 1 43      | 0           | 0   | -1  | 0    | -1   | -1   | -1  | -1 |
| 47        | 1 44      | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |

\* Sign reversed.

TABLE 21

H07 (Sidewinder): Load case 4206 on 13/2/85

| Load (kg) |     |       | 0           | 460 | 934 | 1377 | 1848 | 1381 | 474 | 0   |
|-----------|-----|-------|-------------|-----|-----|------|------|------|-----|-----|
| Ch        | Run | Gauge | Microstrain |     |     |      |      |      |     |     |
| 7         | 1   | 27.4  | 0           | 83  | 161 | 238  | 326  | 246  | 82  | 0   |
|           | 2   |       | 0           | 79  | 165 | 243  | 326  | 243  | 82  | -3  |
| 8         | 1   | 27.1  | 0           | 70  | 138 | 208  | 282  | 214  | 70  | -1  |
|           | 2   |       | -2          | 63  | 140 | 208  | 278  | 210  | 71  | -2  |
| 9         | 1   | 35A   | 0           | 29  | 65  | 122  | 178  | 144  | 53  | -8  |
|           | 2   |       | -8          | 24  | 65  | 116  | 175  | 138  | 44  | -14 |
| 10        | 1   | 35B   | 0           | 7   | 20  | 48   | 73   | 59   | 19  | -8  |
|           | 2   |       | -8          | 5   | 22  | 44   | 71   | 56   | 15  | -12 |
| 11        | 1   | 35C   | 0           | 26  | 60  | 109  | 165  | 126  | 41  | -12 |
|           | 2   |       | -12         | 22  | 63  | 109  | 162  | 123  | 36  | -14 |
| 12        | 1   | 134T  | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0   |
|           | 2   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0   |
| 13        | 1   | 27    | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0   |
|           | 2   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0   |
| 14        | 1   | 28.1  | 0           | 83  | 165 | 253  | 350  | 273  | 95  | 3   |
|           | 2   |       | 2           | 78  | 172 | 257  | 350  | 270  | 97  | 2   |
| 15        | 1   | 29    | 0           | 0   | -3  | -5   | -8   | -5   | 0   | 2   |
|           | 2   |       | 2           | 0   | -3  | -5   | -7   | -7   | 0   | 2   |
| 16        | 1   | 28.7  | 0           | 85  | 166 | 253  | 347  | 267  | 96  | 3   |
|           | 2   |       | 3           | 80  | 169 | 255  | 347  | 265  | 96  | 2   |
| 17        | 1   | 31    | 0           | -5  | -2  | 0    | -2   | 0    | -3  | -2  |
|           | 2   |       | -2          | -3  | -2  | -2   | -5   | -2   | -2  | -2  |
| 18        | 1   | 33    | 0           | -3  | -8  | -13  | -15  | -12  | -3  | -2  |
|           | 2   |       | -2          | -5  | -8  | -13  | -15  | -13  | -5  | -2  |
| 19        | 1   | 134S  | 0           | -2  | -2  | -2   | -2   | -3   | -2  | -3  |
|           | 2   |       | -3          | -2  | -2  | -2   | 0    | -2   | -2  | -3  |
| 20        | 1   | 36A   | 0           | 63  | 128 | 209  | 295  | 228  | 85  | -2  |
|           | 2   |       | -3          | 63  | 133 | 209  | 293  | 225  | 78  | -9  |
| 21        | 1   | 36B   | 0           | 36  | 80  | 140  | 201  | 155  | 53  | -10 |
|           | 2   |       | -10         | 34  | 82  | 138  | 201  | 152  | 48  | -15 |
| 22        | 1   | TEMP  | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0   |
|           | 2   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0   |

TABLE 21 (Continued)

H07(Sidewinder): Load case 4206 on 13/2/85

| Load (kg) |     |       | 0           | 460 | 934 | 1377 | 1848 | 1381 | 474 | 0   |
|-----------|-----|-------|-------------|-----|-----|------|------|------|-----|-----|
| Ch        | Run | Gauge | Microstrain |     |     |      |      |      |     |     |
| 23        | 1   | 4     | 0           | -3  | -4  | -5   | -6   | -4   | -2  | -2  |
|           | 2   |       | -2          | -3  | -3  | -4   | -5   | -4   | -2  | -1  |
| 24        | 1   | 5     | 0           | 2   | 6   | 9    | 12   | 9    | 3   | -1  |
|           | 2   |       | -1          | 2   | 6   | 9    | 13   | 9    | 3   | -1  |
| 25        | 1   | 6     | 0           | -1  | 2   | 3    | 6    | 3    | -1  | -4  |
|           | 2   |       | -4          | -1  | 2   | 4    | 6    | 4    | -1  | -3  |
| 26        | 1   | 7     | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0   |
|           | 2   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0   |
| 27        | 1   | 11    | * 0         | 10  | 15  | 18   | 23   | 18   | 9   | 5   |
|           | 2   |       | 6           | 10  | 15  | 19   | 23   | 18   | 10  | 6   |
| 28        | 1   | 12    | 0           | -19 | -17 | -16  | -13  | -14  | -19 | -21 |
|           | 2   |       | -21         | -19 | -16 | -14  | -12  | -13  | -18 | -19 |
| 29        | 1   | 13    | 0           | -2  | 3   | 8    | 14   | 9    | -1  | -6  |
|           | 2   |       | -6          | 0   | 6   | 10   | 16   | 12   | 2   | -3  |
| 30        | 1   | 20    | * 0         | 6   | 10  | 14   | 19   | 14   | 6   | 0   |
|           | 2   |       | 2           | 6   | 11  | 14   | 21   | 14   | 6   | 2   |
| 31        | 1   | 21    | 0           | 2   | 6   | 11   | 16   | 11   | 2   | -3  |
|           | 2   |       | -3          | 0   | 6   | 10   | 13   | 10   | 0   | -5  |
| 32        | 1   | 24    | * 0         | 10  | 15  | 23   | 31   | 25   | 12  | 4   |
|           | 2   |       | 4           | 10  | 17  | 24   | 32   | 26   | 12  | 5   |
| 33        | 1   | 25    | * 0         | 10  | 18  | 26   | 34   | 28   | 14  | 5   |
|           | 2   |       | 5           | 12  | 20  | 27   | 35   | 29   | 14  | 6   |
| 34        | 1   | 21T   | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0   |
|           | 2   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0   |
| 35        | 1   | 37    | 0           | 96  | 190 | 300  | 418  | 325  | 118 | 3   |
|           | 2   |       | 2           | 91  | 199 | 301  | 416  | 323  | 115 | 2   |
| 36        | 1   | 14    | 0           | -1  | -1  | -1   | -1   | 0    | 1   | 1   |
|           | 2   |       | 1           | 1   | 1   | 1    | 1    | 1    | 3   | 3   |
| 37        | 1   | 38    | 0           | 108 | 217 | 337  | 465  | 358  | 122 | -2  |
|           | 2   |       | 0           | 103 | 224 | 339  | 463  | 354  | 122 | -2  |
| 38        | 1   | 18A   | 0           | -3  | -3  | -2   | -2   | -2   | -2  | -2  |
|           | 2   |       | -2          | -3  | -2  | -2   | -2   | -2   | -2  | -2  |

TABLE 21 (Continued)

H07 (Sidewinder): Load case 4206 on 13/2/85

| Load (kg) |     |         | 0           | 460 | 934 | 1377 | 1848 | 1381 | 474 | 0  |
|-----------|-----|---------|-------------|-----|-----|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |     |      |      |      |     |    |
| 39        | 1   | 39      | 0           | 113 | 222 | 344  | 474  | 366  | 129 | 2  |
|           | 2   |         | 2           | 106 | 231 | 346  | 472  | 363  | 129 | 2  |
| 40        | 1   | 22A     | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 2   |         | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
| 41        | 1   | 40      | 0           | 83  | 165 | 258  | 360  | 279  | 98  | 2  |
|           | 2   |         | 2           | 81  | 170 | 260  | 360  | 278  | 100 | 2  |
| 42        | 1   | 21C     | 0           | -1  | -4  | -7   | -10  | -7   | -1  | 1  |
|           | 2   |         | 1           | -1  | -3  | -5   | -8   | -5   | -1  | 3  |
| 43        | 1   | 16      | 0           | -1  | -1  | -2   | -2   | -1   | -1  | 0  |
|           | 2   |         | 0           | 0   | -1  | -1   | -1   | -1   | 0   | 1  |
| 44        | 1   | 324.3SB | 0           | 159 | 321 | 503  | 689  | 537  | 179 | 0  |
|           | 2   |         | 0           | 149 | 334 | 503  | 682  | 527  | 179 | -3 |
| 45        | 1   | 324.3PT | 0           | 173 | 324 | 493  | 688  | 529  | 187 | -4 |
|           | 2   |         | -4          | 158 | 328 | 500  | 691  | 529  | 187 | -4 |
| 46        | 1   | 43      | 0           | -1  | -1  | -1   | -1   | -1   | -1  | -1 |
|           | 2   |         | -1          | -1  | -1  | -1   | -1   | 0    | 0   | 0  |
| 47        | 1   | 44      | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 2   |         | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |

\* Sign reversed.

TABLE 22

H07 (Sidewinder): Load case 4306 on 28/3/85

| Load (kg) |           | 0           | 467 | 934 | 1395 | 1844 | 1395 | 465 | 0  |
|-----------|-----------|-------------|-----|-----|------|------|------|-----|----|
| Ch        | Run Gauge | Microstrain |     |     |      |      |      |     |    |
| 7         | 1 27.4    | 0           | 79  | 158 | 237  | 320  | 243  | 83  | 1  |
|           | 2         | 1           | 79  | 162 | 241  | 322  | 244  | 83  | 3  |
|           | 3         | 3           | 85  | 161 | 244  | 320  | 244  | 85  | 4  |
| 8         | 1 27.1 *  | 0           | 65  | 132 | 203  | 276  | 209  | 71  | 1  |
|           | 2         | 1           | 66  | 137 | 205  | 276  | 210  | 72  | 2  |
|           | 3         | 2           | 71  | 137 | 206  | 275  | 211  | 73  | 4  |
| 9         | 1 35A     | 0           | 37  | 88  | 141  | 204  | 165  | 59  | 0  |
|           | 2         | 0           | 39  | 90  | 144  | 204  | 167  | 59  | 0  |
|           | 3         | 0           | 39  | 90  | 144  | 202  | 165  | 58  | 2  |
| 10        | 1 35B     | 0           | 15  | 37  | 65   | 95   | 78   | 25  | -2 |
|           | 2         | -2          | 15  | 39  | 65   | 93   | 78   | 25  | -2 |
|           | 3         | -2          | 15  | 37  | 65   | 92   | 75   | 24  | -2 |
| 11        | 1 35C     | 0           | 43  | 97  | 153  | 216  | 174  | 60  | 0  |
|           | 2         | 0           | 41  | 97  | 153  | 215  | 174  | 58  | -2 |
|           | 3         | -2          | 41  | 95  | 153  | 213  | 170  | 56  | -2 |
| 12        | 1 134T    | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 2         | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 3         | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
| 13        | 1 27      | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 2         | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 3         | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
| 14        | 1 28.1    | 0           | 77  | 160 | 247  | 337  | 260  | 87  | 0  |
|           | 2         | 0           | 78  | 165 | 250  | 337  | 262  | 88  | 0  |
|           | 3         | 0           | 82  | 163 | 252  | 335  | 262  | 87  | 0  |
| 15        | 1 29      | 0           | -2  | -5  | -7   | -10  | -7   | 2   | 5  |
|           | 2         | 5           | 2   | -2  | -3   | -5   | -2   | 5   | 8  |
|           | 3         | 8           | 5   | 3   | 0    | -2   | 2    | 8   | 12 |
| 16        | 1 28.7 *  | 0           | 79  | 166 | 253  | 345  | 265  | 91  | 0  |
|           | 2         | 0           | 79  | 167 | 255  | 343  | 265  | 89  | 0  |
|           | 3         | -2          | 80  | 164 | 253  | 340  | 261  | 85  | -3 |
| 17        | 1 31      | 0           | -2  | -3  | -2   | -2   | -3   | -2  | 0  |
|           | 2         | 0           | 2   | -2  | -2   | -2   | -2   | 0   | 2  |
|           | 3         | 2           | 2   | 0   | 0    | 0    | 0    | 2   | 2  |
| 18        | 1 33 *    | 0           | -7  | -10 | -17  | -22  | -17  | -8  | -2 |
|           | 2         | -2          | -8  | -12 | -17  | -22  | -17  | -8  | -2 |
|           | 3         | -2          | -8  | -13 | -18  | -22  | -18  | -8  | -2 |

TABLE 22 (Continued)

H07(Sidewinder): Load case 4306 on 28 3/85

| Load (kg) |     |       | 0           | 467 | 934 | 1395 | 1844 | 1395 | 465 | 0  |   |
|-----------|-----|-------|-------------|-----|-----|------|------|------|-----|----|---|
| Ch        | Run | Gauge | Microstrain |     |     |      |      |      |     |    |   |
| 19        | 1   | 134S  | 0           | 2   | 2   | 0    | 0    | 2    | 0   | 0  |   |
|           | 2   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | -2 |   |
|           | 3   |       | -2          | -2  | 0   | 0    | 0    | 0    | 0   | 0  |   |
| 20        | 1   | 36A   | 0           | 72  | 153 | 237  | 322  | 255  | 89  | 2  |   |
|           | 2   |       | 2           | 72  | 158 | 240  | 324  | 255  | 89  | 3  |   |
|           | 3   |       | 3           | 75  | 157 | 242  | 322  | 255  | 89  | 5  |   |
| 21        | 1   | 36B   | 0           | 49  | 109 | 169  | 232  | 184  | 61  | 0  |   |
|           | 2   |       | 0           | 48  | 111 | 171  | 234  | 184  | 61  | 0  |   |
|           | 3   |       | 0           | 49  | 109 | 172  | 230  | 183  | 60  | 0  |   |
| 22        | 1   | TEMP  | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |   |
|           | 2   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |   |
|           | 3   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |   |
| 23        | 1   | 4     | 0           | -1  | -2  | -4   | -6   | -4   | 1   | 2  |   |
|           | 2   |       | 3           | 1   | 0   | -2   | -4   | -2   | 2   | 5  |   |
|           | 3   |       | 5           | 3   | 1   | 0    | -2   | 0    | 4   | 6  |   |
| 24        | 1   | 5     | 0           | 4   | 5   | 6    | 7    | 4    | 1   | -1 |   |
|           | 2   |       | -1          | 3   | 5   | 6    | 6    | 4    | 1   | -1 |   |
|           | 3   |       | -1          | 2   | 3   | 5    | 6    | 3    | 1   | -1 |   |
| 25        | 1   | 6     | 0           | 2   | 3   | 3    | 3    | 2    | 1   | 0  |   |
|           | 2   |       | 0           | 3   | 3   | 4    | 3    | 2    | 1   | 0  |   |
|           | 3   |       | 0           | 3   | 3   | 4    | 4    | 2    | 2   | 1  |   |
| 26        | 1   | 7     | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |   |
|           | 2   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |   |
|           | 3   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |   |
| 27        | 1   | 11    | 0           | -4  | -6  | -7   | -7   | -4   | -1  | 1  |   |
|           | 2   |       | 1           | -3  | -5  | -6   | -6   | -3   | 0   | 2  |   |
|           | 3   |       | 2           | -2  | -3  | -5   | -5   | -2   | 1   | 3  |   |
| 28        | 1   | 12    | 0           | 2   | 3   | 3    | 3    | 2    | -1  | -2 |   |
|           | 2   |       | -2          | 0   | 0   | 1    | 0    | -1   | -3  | -5 |   |
|           | 3   |       | -5          | -2  | -2  | -1   | -2   | -3   | -5  | -7 |   |
| 29        | 1   | 13    | 0           | 5   | 8   | 9    | 9    | 6    | 2   | 0  |   |
|           | 2   |       | 0           | 5   | 7   | 9    | 9    | 6    | 2   | -1 |   |
|           | 3   |       | -1          | 5   | 6   | 8    | 9    | 6    | 2   | -1 |   |
| 30        | 1   | 20    | *           | 0   | 5   | 11   | 16   | 22   | 19  | 8  | 3 |
|           | 2   |       |             | 3   | 8   | 14   | 19   | 25   | 21  | 11 | 5 |
|           | 3   |       |             | 5   | 10  | 14   | 21   | 27   | 22  | 13 | 6 |

TABLE 22 (Continued)

H07(Sidewinder): Load case 4306 on 28/3/85

| Load (kg) |     |       | 0           | 467 | 934 | 1395 | 1844 | 1395 | 465 | 0  |
|-----------|-----|-------|-------------|-----|-----|------|------|------|-----|----|
| Ch        | Run | Gauge | Microstrain |     |     |      |      |      |     |    |
| 31        | 1   | 21    | 0           | 5   | 10  | 14   | 21   | 16   | 5   | 0  |
|           | 2   |       | 0           | 5   | 5   | 14   | 19   | 14   | 3   | -2 |
|           | 3   |       | -2          | 3   | 6   | 13   | 17   | 13   | 2   | -3 |
| 32        | 1   | 24    | 0           | 6   | 13  | 21   | 28   | 23   | 7   | -1 |
|           | 2   |       | -1          | 5   | 12  | 20   | 28   | 21   | 6   | -1 |
|           | 3   |       | -1          | 4   | 12  | 20   | 28   | 21   | 6   | -1 |
| 33        | 1   | 25    | * 0         | 6   | 14  | 21   | 29   | 23   | 8   | 0  |
|           | 2   |       | 0           | 7   | 14  | 22   | 29   | 23   | 8   | 1  |
|           | 3   |       | 1           | 8   | 14  | 22   | 29   | 23   | 8   | 0  |
| 34        | 1   | 21T   | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 2   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 3   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
| 35        | 1   | 37    | 0           | 93  | 199 | 310  | 428  | 333  | 113 | 0  |
|           | 2   |       | 0           | 93  | 202 | 312  | 424  | 333  | 113 | 0  |
|           | 3   |       | -2          | 96  | 200 | 313  | 423  | 330  | 109 | 0  |
| 36        | 1   | 14    | 0           | 0   | -1  | -1   | -1   | -1   | 0   | 1  |
|           | 2   |       | 1           | 1   | 1   | 1    | 1    | 1    | 1   | 2  |
|           | 3   |       | 2           | 2   | 2   | 1    | 1    | 1    | 2   | 3  |
| 37        | 1   | 38    | 0           | 105 | 222 | 342  | 466  | 358  | 117 | -3 |
|           | 2   |       | -2          | 103 | 225 | 342  | 465  | 358  | 117 | -3 |
|           | 3   |       | -3          | 107 | 222 | 344  | 461  | 354  | 114 | -3 |
| 38        | 1   | 18A   | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 2   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 3   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 2  |
| 39        | 1   | 39    | 0           | 108 | 226 | 349  | 474  | 365  | 122 | -2 |
|           | 2   |       | -2          | 106 | 231 | 351  | 474  | 366  | 120 | -3 |
|           | 3   |       | -3          | 109 | 227 | 351  | 471  | 363  | 118 | -3 |
| 40        | 1   | 22A   | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 2   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 3   |       | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
| 41        | 1   | 40    | 0           | 79  | 170 | 265  | 366  | 281  | 91  | -4 |
|           | 2   |       | -4          | 77  | 172 | 265  | 364  | 281  | 91  | -5 |
|           | 3   |       | -5          | 79  | 169 | 265  | 359  | 278  | 88  | -7 |
| 42        | 1   | 21C   | 0           | -3  | -4  | -7   | -10  | -7   | -3  | 1  |
|           | 2   |       | 1           | -1  | -4  | -7   | -8   | -7   | -1  | 1  |
|           | 3   |       | 1           | 0   | -3  | -5   | -8   | -5   | 0   | 3  |

TABLE 22 (Continued)

H07(Sidewinder): Load case 4306 on 28/3/85

| Load (kg) |     |         | 0           | 467 | 934 | 1395 | 1844 | 1395 | 465 | 0  |
|-----------|-----|---------|-------------|-----|-----|------|------|------|-----|----|
| Ch        | Run | Gauge   | Microstrain |     |     |      |      |      |     |    |
| 43        | 1   | 16      | 0           | 0   | 0   | -1   | -1   | 0    | 1   | 2  |
|           | 2   |         | 2           | 2   | 2   | 1    | 1    | 2    | 4   | 4  |
|           | 3   |         | 5           | 4   | 4   | 4    | 3    | 4    | 5   | 6  |
| 44        | 1   | 324.3SB | 0           | 149 | 311 | 490  | 676  | 520  | 176 | 0  |
|           | 2   |         | 0           | 152 | 321 | 493  | 672  | 524  | 176 | 0  |
|           | 3   |         | 0           | 159 | 321 | 497  | 669  | 520  | 172 | 0  |
| 45        | 1   | 324.3PT | 0           | 158 | 320 | 486  | 666  | 522  | 180 | 0  |
|           | 2   |         | 0           | 151 | 324 | 493  | 673  | 518  | 180 | 0  |
|           | 3   |         | -4          | 162 | 317 | 493  | 662  | 515  | 176 | 0  |
| 46        | 1   | 43      | 0           | 0   | 0   | 0    | -1   | -1   | -1  | -1 |
|           | 2   |         | -1          | -1  | -1  | -1   | -1   | -1   | -1  | -1 |
|           | 3   |         | -1          | -2  | -2  | -2   | -2   | -2   | -2  | -2 |
| 47        | 1   | 44      | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 2   |         | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |
|           | 3   |         | 0           | 0   | 0   | 0    | 0    | 0    | 0   | 0  |

\* Sign reversed.

TABLE 23

H05(main store): Load case 2603-3 on 11/8/78

| Load (kg) |     |         | 624                 | 1254 | 1857 | 2488 | 1864 | 633 |
|-----------|-----|---------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |      |      |      |      |     |
| 5         | 3   | 27.2    | 91                  | 100  | 101  | 102  | 105  | 104 |
| 6         | 3   | 27.3    | 75                  | 78   | 80   | 81   | 84   | 85  |
| 7         | 3   | 27.4    | 101                 | 104  | 104  | 105  | 104  | 104 |
| 8         | 3   | 27.5    | 13                  | 18   | 20   | 21   | 24   | 21  |
| 9         | 3   | 1.6SB   | 157                 | 157  | 160  | 162  | 164  | 164 |
| 10        | 3   | 2SB     | 123                 | 124  | 125  | 127  | 128  | 130 |
| 11        | 3   | 223SB   | 162                 | 162  | 165  | 166  | 170  | 171 |
| 12        | 3   | 320SB   | 135                 | 139  | 145  | 147  | 150  | 147 |
| 13        | 3   | 323.3SB | 178                 | 179  | 183  | 184  | 188  | 190 |
| 14        | 3   | 326SB   | 138                 | 138  | 143  | 144  | 147  | 149 |
| 15        | 3   | 328SB   | 141                 | 142  | 143  | 144  | 146  | 149 |
| 16        | 3   | 28.2    | 109                 | 115  | 117  | 118  | 121  | 119 |
| 17        | 3   | 28.4    | 90                  | 96   | 99   | 100  | 104  | 103 |
| 18        | 3   | 28.5    | 91                  | 94   | 97   | 98   | 101  | 103 |
| 19        | 3   | 28.6    | 99                  | 104  | 107  | 109  | 112  | 112 |
| 20        | 3   | 28.7    | 115                 | 120  | 122  | 123  | 126  | 128 |
| 21        | 3   | 28.8    | 95                  | 98   | 99   | 100  | 102  | 103 |
| 22        | 3   | 28.9    | 55                  | 59   | 60   | 61   | 62   | 62  |
| 23        | 3   | 28.10   | 50                  | 53   | 54   | 54   | 55   | 49  |
| 24        | 3   | 1.4SB   | 128                 | 132  | 135  | 136  | 139  | 137 |
| 25        | 3   | 16SB    | 204                 | 206  | 211  | 211  | 215  | 213 |
| 26        | 3   | 18PT    | 131                 | 137  | 139  | 141  | 143  | 141 |
| 27        | 3   | 27.1    | 88                  | 90   | 91   | 92   | 94   | 93  |
| 28        | 3   | 28.1    | 98                  | 101  | 104  | 105  | 107  | 107 |

TABLE 24

H05(main store): Load case 2603-56 on 14/8/78

| Load (kg) |     |         | 630                 | 1254 | 1878 | 2499 | 1871 | 628 |
|-----------|-----|---------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |      |      |      |      |     |
| 5         | 5   | 27.2    | 92                  | 98   | 101  | 102  | 104  | 103 |
|           | 6   |         | 92                  | 98   | 100  | 102  | 104  | 102 |
| 6         | 5   | 27.3    | 75                  | 78   | 79   | 80   | 83   | 81  |
|           | 6   |         | 67                  | 74   | 77   | 78   | 80   | 78  |
| 7         | 5   | 27.4    | 102                 | 102  | 103  | 104  | 103  | 102 |
|           | 6   |         | 98                  | 101  | 102  | 103  | 102  | 99  |
| 8         | 5   | 27.5    | 13                  | 18   | 20   | 21   | 24   | 21  |
|           | 6   |         | 8                   | 16   | 19   | 20   | 22   | 18  |
| 9         | 5   | 1.6SB   | 160                 | 159  | 162  | 163  | 164  | 164 |
|           | 6   |         | 151                 | 157  | 160  | 161  | 162  | 162 |
| 10        | 5   | 2SB     | 127                 | 124  | 126  | 126  | 128  | 129 |
|           | 6   |         | 117                 | 123  | 124  | 125  | 126  | 127 |
| 11        | 5   | 223SB   | 163                 | 163  | 166  | 166  | 168  | 169 |
|           | 6   |         | 157                 | 162  | 163  | 166  | 167  | 169 |
| 12        | 5   | 320SB   | 133                 | 138  | 144  | 145  | 149  | 145 |
|           | 6   |         | 127                 | 138  | 143  | 145  | 148  | 146 |
| 13        | 5   | 323.3SB | 181                 | 180  | 183  | 185  | 187  | 188 |
|           | 6   |         | 174                 | 180  | 182  | 184  | 187  | 189 |
| 14        | 5   | 326SB   | 136                 | 137  | 142  | 143  | 145  | 145 |
|           | 6   |         | 130                 | 136  | 140  | 142  | 144  | 145 |
| 15        | 5   | 328SB   | 144                 | 142  | 144  | 144  | 145  | 146 |
|           | 6   |         | 136                 | 140  | 142  | 143  | 144  | 145 |
| 16        | 5   | 28.2    | 109                 | 113  | 116  | 118  | 120  | 119 |
|           | 6   |         | 109                 | 115  | 117  | 118  | 121  | 121 |
| 17        | 5   | 28.4    | 86                  | 91   | 94   | 96   | 99   | 97  |
|           | 6   |         | 82                  | 90   | 93   | 96   | 98   | 99  |
| 18        | 5   | 28.5    | 95                  | 95   | 99   | 99   | 102  | 102 |
|           | 6   |         | 90                  | 95   | 97   | 98   | 101  | 103 |
| 19        | 5   | 28.6    | 98                  | 103  | 107  | 108  | 111  | 111 |
|           | 6   |         | 98                  | 104  | 106  | 108  | 111  | 111 |
| 20        | 5   | 28.7    | 117                 | 121  | 123  | 124  | 127  | 129 |
|           | 6   |         | 111                 | 118  | 121  | 123  | 126  | 124 |

TABLE 24 (Continued)

H05 (main store): Load case 2603-56 on 14/5-78

| Load (kg) |     |       | 630                 | 1254 | 1878 | 2499 | 1871 | 628 |
|-----------|-----|-------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |      |      |      |      |     |
| 21        | 5   | 28.8  | 95                  | 96   | 99   | 100  | 102  | 103 |
|           | 6   |       | 89                  | 95   | 97   | 99   | 100  | 100 |
| 22        | 5   | 28.9  | 59                  | 60   | 62   | 62   | 64   | 65  |
|           | 6   |       | 62                  | 63   | 63   | 64   | 65   | 68  |
| 23        | 5   | 28.10 | 54                  | 57   | 57   | 57   | 58   | 54  |
|           | 6   |       | 59                  | 58   | 58   | 58   | 59   | 59  |
| 24        | 5   | 1.4SB | 133                 | 133  | 136  | 137  | 138  | 138 |
|           | 6   |       | 125                 | 132  | 134  | 136  | 137  | 138 |
| 25        | 5   | 16SB  | 206                 | 207  | 211  | 211  | 214  | 212 |
|           | 6   |       | 200                 | 207  | 209  | 211  | 213  | 215 |
| 26        | 5   | 18PT  | 133                 | 136  | 138  | 140  | 142  | 142 |
|           | 6   |       | 132                 | 136  | 138  | 140  | 142  | 140 |
| 27        | 5   | 27.1  | 89                  | 89   | 91   | 91   | 92   | 91  |
|           | 6   |       | 86                  | 89   | 89   | 90   | 91   | 89  |
| 28        | 5   | 28.1  | 98                  | 100  | 104  | 105  | 106  | 107 |
|           | 6   |       | 100                 | 103  | 104  | 106  | 107  | 111 |

TABLE 25

H05 (main store): Load case 2703 on 18/12 75

| Load (kg) |     |         | 624                 | 1245 | 1869 | 2490 | 1862 | 628 |
|-----------|-----|---------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |      |      |      |      |     |
| 5         | 1   | 27.2    | 90                  | 96   | 99   | 101  | 101  | 103 |
|           | 2   |         | 93                  | 95   | 98   | 100  | 101  | 100 |
| 6         | 1   | 27.3    | 74                  | 77   | 80   | 81   | 83   | 84  |
|           | 2   |         | 74                  | 77   | 79   | 80   | 82   | 81  |
| 7         | 1   | 27.4    | 101                 | 101  | 104  | 106  | 104  | 102 |
|           | 2   |         | 99                  | 101  | 103  | 104  | 103  | 100 |
| 8         | 1   | 27.5    | 13                  | 18   | 18   | 20   | 22   | 19  |
|           | 2   |         | 6                   | 16   | 18   | 19   | 20   | 18  |
| 9         | 1   | 1.6SB   | 164                 | 161  | 162  | 163  | 166  | 169 |
|           | 2   |         | 165                 | 161  | 163  | 163  | 164  | 167 |
| 10        | 1   | 2SB     | 128                 | 127  | 127  | 129  | 129  | 131 |
|           | 2   |         | 130                 | 128  | 127  | 128  | 129  | 129 |
| 11        | 1   | 223SB   | 168                 | 166  | 167  | 169  | 171  | 174 |
|           | 2   |         | 172                 | 167  | 169  | 169  | 171  | 174 |
| 12        | 1   | 320SB   | 139                 | 145  | 147  | 149  | 150  | 150 |
|           | 2   |         | 149                 | 145  | 148  | 149  | 150  | 151 |
| 13        | 1   | 323.3SB | 200                 | 195  | 195  | 195  | 201  | 215 |
|           | 2   |         | 165                 | 172  | 178  | 181  | 180  | 162 |
| 14        | 1   | 326SB   | 144                 | 146  | 149  | 150  | 150  | 154 |
|           | 2   |         | 151                 | 147  | 149  | 149  | 151  | 156 |
| 15        | 1   | 328SB   | 148                 | 145  | 145  | 147  | 148  | 150 |
|           | 2   |         | 151                 | 144  | 146  | 146  | 147  | 150 |
| 16        | 1   | 28.2    | 111                 | 114  | 116  | 118  | 120  | 124 |
|           | 2   |         | 114                 | 114  | 117  | 118  | 121  | 124 |
| 17        | 1   | 28.4    | 90                  | 94   | 98   | 100  | 103  | 105 |
|           | 2   |         | 95                  | 95   | 98   | 100  | 103  | 107 |
| 18        | 1   | 28.5    | 99                  | 99   | 102  | 104  | 105  | 108 |
|           | 2   |         | 101                 | 100  | 102  | 103  | 106  | 111 |
| 19        | 1   | 28.6    | 98                  | 103  | 105  | 108  | 110  | 115 |
|           | 2   |         | 99                  | 102  | 105  | 107  | 110  | 115 |
| 20        | 1   | 28.7    | 114                 | 120  | 123  | 126  | 128  | 131 |
|           | 2   |         | 119                 | 120  | 124  | 126  | 128  | 131 |

TABLE 25 (Continued)

H05(main store): Load case 2703 on 18/12/78

| Load (kg) |     |       | 624                 | 1245 | 1869 | 2490 | 1862 | 628 |
|-----------|-----|-------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |      |      |      |      |     |
| 21        | 1   | 28.8  | 99                  | 101  | 103  | 104  | 107  | 111 |
|           | 2   |       | 103                 | 102  | 103  | 105  | 107  | 111 |
| 22        | 1   | 28.9  | 56                  | 58   | 59   | 60   | 61   | 64  |
|           | 2   |       | 63                  | 59   | 60   | 60   | 62   | 64  |
| 23        | 1   | 28.10 | 53                  | 57   | 57   | 57   | 57   | 56  |
|           | 2   |       | 58                  | 57   | 58   | 59   | 59   | 57  |
| 24        | 1   | 1.4SB | 138                 | 137  | 138  | 140  | 141  | 142 |
|           | 2   |       | 139                 | 137  | 139  | 139  | 141  | 142 |
| 25        | 1   | 16SB  | 216                 | 214  | 215  | 216  | 218  | 216 |
|           | 2   |       | 221                 | 214  | 216  | 216  | 216  | 220 |
| 26        | 1   | 18PT  | 128                 | 132  | 134  | 136  | 136  | 143 |
|           | 2   |       | 131                 | 132  | 134  | 136  | 137  | 140 |
| 27        | 1   | 27.1  | 88                  | 90   | 92   | 93   | 94   | 94  |
|           | 2   |       | 91                  | 91   | 92   | 92   | 94   | 92  |
| 28        | 1   | 28.1  | 104                 | 106  | 108  | 110  | 112  | 113 |
|           | 2   |       | 107                 | 107  | 109  | 110  | 112  | 116 |

TABLE 26

H05(main store): Load case 2803 on 19/12/78

| Load (kg) |     |         | 633                 | 1245 | 1873 | 2499 | 1873 | 628 |
|-----------|-----|---------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |      |      |      |      |     |
| 5         | 1   | 27.2    | 84                  | 92   | 96   | 98   | 100  | 96  |
|           | 2   |         | 85                  | 93   | 96   | 99   | 99   | 94  |
| 6         | 1   | 27.3    | 71                  | 76   | 79   | 80   | 82   | 81  |
|           | 2   |         | 71                  | 76   | 75   | 80   | 82   | 80  |
| 7         | 1   | 27.4    | 103                 | 102  | 104  | 105  | 104  | 105 |
|           | 2   |         | 104                 | 104  | 104  | 105  | 104  | 103 |
| 8         | 1   | 27.5    | 14                  | 18   | 20   | 20   | 24   | 24  |
|           | 2   |         | 13                  | 18   | 19   | 20   | 23   | 21  |
| 9         | 1   | 1.6SB   | 160                 | 161  | 163  | 162  | 164  | 167 |
|           | 2   |         | 158                 | 161  | 162  | 164  | 164  | 166 |
| 10        | 1   | 2SB     | 123                 | 126  | 128  | 127  | 128  | 131 |
|           | 2   |         | 123                 | 126  | 127  | 128  | 128  | 129 |
| 11        | 1   | 223SB   | 163                 | 165  | 168  | 167  | 169  | 174 |
|           | 2   |         | 161                 | 165  | 167  | 169  | 170  | 170 |
| 12        | 1   | 320SB   | 134                 | 141  | 145  | 146  | 147  | 151 |
|           | 2   |         | 136                 | 143  | 145  | 147  | 147  | 145 |
| 13        | 1   | 323.3SB | 179                 | 183  | 186  | 186  | 188  | 193 |
|           | 2   |         | 177                 | 183  | 186  | 188  | 188  | 188 |
| 14        | 1   | 326SB   | 141                 | 145  | 147  | 147  | 149  | 153 |
|           | 2   |         | 141                 | 145  | 146  | 149  | 149  | 150 |
| 15        | 1   | 328SB   | 142                 | 144  | 146  | 145  | 146  | 151 |
|           | 2   |         | 142                 | 145  | 145  | 146  | 147  | 148 |
| 16        | 1   | 28.2    | 111                 | 112  | 115  | 117  | 121  | 123 |
|           | 2   |         | 111                 | 114  | 115  | 118  | 121  | 121 |
| 17        | 1   | 28.4    | 92                  | 94   | 98   | 99   | 102  | 105 |
|           | 2   |         | 90                  | 95   | 98   | 100  | 102  | 105 |
| 18        | 1   | 28.5    | 95                  | 98   | 102  | 102  | 105  | 108 |
|           | 2   |         | 95                  | 98   | 101  | 103  | 105  | 107 |
| 19        | 1   | 28.6    | 100                 | 102  | 105  | 107  | 110  | 115 |
|           | 2   |         | 100                 | 103  | 105  | 108  | 110  | 113 |
| 20        | 1   | 28.7    | 117                 | 120  | 123  | 125  | 129  | 131 |
|           | 2   |         | 115                 | 121  | 123  | 126  | 129  | 131 |

TABLE 26 (Continued)

H05(main store): Load case 2803 on 19/12/78

| Load (kg) |     |       | 633                 | 1245 | 1873 | 2499 | 1873 | 628 |
|-----------|-----|-------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |      |      |      |      |     |
| 21        | 1   | 28.8  | 96                  | 99   | 102  | 103  | 106  | 110 |
|           | 2   |       | 96                  | 100  | 102  | 104  | 106  | 110 |
| 22        | 1   | 28.9  | 57                  | 59   | 60   | 60   | 61   | 62  |
|           | 2   |       | 55                  | 59   | 60   | 60   | 62   | 62  |
| 23        | 1   | 28.10 | 57                  | 58   | 58   | 58   | 59   | 57  |
|           | 2   |       | 57                  | 59   | 59   | 58   | 59   | 60  |
| 24        | 1   | 1.4SB | 133                 | 136  | 139  | 138  | 140  | 143 |
|           | 2   |       | 133                 | 136  | 138  | 140  | 140  | 140 |
| 25        | 1   | 16SB  | 210                 | 214  | 216  | 214  | 216  | 220 |
|           | 2   |       | 209                 | 214  | 215  | 216  | 216  | 215 |
| 26        | 1   | 18PT  | 130                 | 130  | 133  | 135  | 138  | 142 |
|           | 2   |       | 133                 | 133  | 133  | 136  | 138  | 142 |
| 27        | 1   | 27.1  | 90                  | 92   | 92   | 93   | 95   | 97  |
|           | 2   |       | 90                  | 92   | 92   | 94   | 94   | 96  |
| 28        | 1   | 28.1  | 101                 | 104  | 107  | 108  | 110  | 113 |
|           | 2   |       | 101                 | 105  | 107  | 109  | 110  | 111 |

TABLE 27

H05(main store): Load case 2903 on 25/1/79

| Load (kg) |     |         | 630                 | 1247 | 1867 | 2495 | 1869 | 628 |
|-----------|-----|---------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |      |      |      |      |     |
| 5         | 1   | 27.2    | 90                  | 95   | 98   | 100  | 101  | 99  |
|           | 2   |         | 90                  | 95   | 99   | 101  | 102  | 103 |
| 6         | 1   | 27.3    | 75                  | 77   | 78   | 79   | 83   | 89  |
|           | 2   |         | 78                  | 79   | 81   | 80   | 83   | 89  |
| 7         | 1   | 27.4    | 102                 | 103  | 102  | 104  | 102  | 103 |
|           | 2   |         | 105                 | 103  | 104  | 105  | 104  | 107 |
| 8         | 1   | 27.5    | 13                  | 16   | 18   | 20   | 22   | 21  |
|           | 2   |         | 11                  | 16   | 18   | 19   | 20   | 19  |
| 9         | 1   | 1.6SB   | 155                 | 156  | 157  | 157  | 161  | 169 |
|           | 2   |         | 157                 | 158  | 160  | 158  | 160  | 164 |
| 10        | 1   | 2SB     | 121                 | 120  | 121  | 121  | 123  | 127 |
|           | 2   |         | 122                 | 121  | 123  | 121  | 123  | 124 |
| 11        | 1   | 223SB   | 159                 | 160  | 160  | 160  | 163  | 172 |
|           | 2   |         | 163                 | 161  | 163  | 161  | 163  | 167 |
| 12        | 1   | 320SB   | 113                 | 119  | 123  | 125  | 131  | 138 |
|           | 2   |         | 113                 | 119  | 124  | 125  | 128  | 131 |
| 13        | 1   | 323.3SB | 170                 | 174  | 182  | 175  | 182  | 210 |
|           | 2   |         | 192                 | 182  | 181  | 180  | 185  | 209 |
| 14        | 1   | 326SB   | 130                 | 130  | 130  | 131  | 134  | 145 |
|           | 2   |         | 133                 | 131  | 132  | 131  | 134  | 140 |
| 15        | 1   | 328SB   | 138                 | 138  | 139  | 139  | 141  | 146 |
|           | 2   |         | 140                 | 139  | 141  | 139  | 141  | 142 |
| 16        | 1   | 28.2    | 106                 | 110  | 112  | 114  | 117  | 121 |
|           | 2   |         | 111                 | 112  | 114  | 115  | 116  | 119 |
| 17        | 1   | 28.4    | 90                  | 95   | 96   | 98   | 102  | 108 |
|           | 2   |         | 94                  | 96   | 98   | 99   | 101  | 105 |
| 18        | 1   | 28.5    | 92                  | 93   | 94   | 95   | 97   | 103 |
|           | 2   |         | 94                  | 94   | 95   | 95   | 97   | 99  |
| 19        | 1   | 28.6    | 97                  | 100  | 102  | 105  | 107  | 111 |
|           | 2   |         | 100                 | 102  | 103  | 105  | 106  | 108 |
| 20        | 1   | 28.7    | 121                 | 124  | 126  | 128  | 132  | 138 |
|           | 2   |         | 125                 | 125  | 128  | 128  | 132  | 135 |

TABLE 27 (Continued)

H05(main store): Load case 2903 on 25/1/79

| Load (kg) |     |       | 630                 | 1247 | 1867 | 2495 | 1869 | 628 |
|-----------|-----|-------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |      |      |      |      |     |
| 21        | 1   | 28.8  | 97                  | 100  | 101  | 103  | 105  | 110 |
|           | 2   |       | 98                  | 101  | 103  | 103  | 105  | 105 |
| 22        | 1   | 28.9  | 57                  | 59   | 61   | 61   | 64   | 68  |
|           | 2   |       | 59                  | 60   | 61   | 61   | 63   | 65  |
| 23        | 1   | 28.10 | 49                  | 52   | 53   | 54   | 55   | 56  |
|           | 2   |       | 51                  | 53   | 53   | 55   | 55   | 56  |
| 24        | 1   | 1.4SB | 124                 | 126  | 126  | 127  | 131  | 138 |
|           | 2   |       | 128                 | 127  | 129  | 128  | 131  | 134 |
| 25        | 1   | 16SB  | 190                 | 191  | 193  | 193  | 199  | 209 |
|           | 2   |       | 195                 | 194  | 197  | 194  | 197  | 202 |
| 26        | 1   | 18PT  | 128                 | 128  | 131  | 133  | 134  | 137 |
|           | 2   |       | 130                 | 129  | 131  | 134  | 134  | 140 |
| 27        | 1   | 27.1  | 90                  | 90   | 90   | 91   | 93   | 97  |
|           | 2   |       | 92                  | 91   | 92   | 91   | 93   | 96  |
| 28        | 1   | 28.1  | 97                  | 100  | 101  | 102  | 105  | 111 |
|           | 2   |       | 103                 | 102  | 103  | 103  | 104  | 108 |

TABLE 28

H05(main store): Load case 3403 on 10/11/81

| Load (kg) |     |         | 474                 | 903 | 1365 | 1835 | 1393 | 426 |
|-----------|-----|---------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |     |      |      |      |     |
| 4         | 1   | 323.5SB | 139                 | 150 | 152  | 160  | 157  | 145 |
| 5         | 1   | 223SB   | 148                 | 158 | 161  | 164  | 158  | 155 |
| 6         | 1   | 1.6SB   | 141                 | 154 | 157  | 161  | 154  | 136 |
| 7         | 1   | 2SB     | 116                 | 122 | 123  | 126  | 122  | 115 |
| 8         | 1   | 325.1SB | 203                 | 218 | 225  | 233  | 226  | 211 |
| 9         | 1   | 324.3SB | 186                 | 198 | 204  | 210  | 204  | 188 |
| 10        | 1   | 324.1SB | 186                 | 199 | 205  | 211  | 205  | 195 |
| 11        | 1   | 324.4SB | 190                 | 199 | 205  | 211  | 205  | 188 |
| 12        | 1   | 323.3SB | 152                 | 164 | 167  | 170  | 168  | 157 |
| 13        | 1   | 323.1SB | 131                 | 141 | 144  | 147  | 141  | 131 |
| 14        | 1   | 324.4PT | 219                 | 208 | 207  | 208  | 217  | 239 |
| 15        | 1   | 323.5PT | 179                 | 170 | 171  | 172  | 180  | 199 |
| 16        | 1   | 18PT    | 141                 | 135 | 136  | 137  | 143  | 152 |
| 17        | 1   | 325.1PT | 238                 | 228 | 228  | 228  | 239  | 265 |
| 18        | 1   | 324.3PT | 215                 | 206 | 205  | 207  | 216  | 239 |
| 19        | 1   | 324.1PT | 222                 | 208 | 208  | 209  | 219  | 242 |
| 20        | 1   | 28.6    | 105                 | 102 | 103  | 106  | 110  | 117 |
| 21        | 1   | 28.7    | 116                 | 123 | 127  | 129  | 131  | 129 |
| 22        | 1   | 27.1    | 84                  | 85  | 88   | 89   | 88   | 84  |
| 23        | 1   | 27.4    | 101                 | 100 | 100  | 99   | 98   | 106 |
| 24        | 1   | 28.1    | 97                  | 102 | 103  | 106  | 104  | 101 |
| 25        | 1   | 28.2    | 118                 | 115 | 116  | 117  | 121  | 131 |
| 26        | 1   | 28.8    | 99                  | 101 | 103  | 105  | 107  | 110 |
| 27        | 1   | 28.4    | 93                  | 94  | 97   | 99   | 102  | 103 |

TABLE 28 (Continued)

H05(main store): Load case 3403 on 10/11/81

| Load (kg) |     |       | 474                 | 903 | 1365 | 1835 | 1393 | 426 |
|-----------|-----|-------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |     |      |      |      |     |
| 28        | 1   | 1.4SB | 105                 | 112 | 113  | 115  | 112  | 108 |
| 29        | 1   | 16TSB | 154                 | 195 | 199  | 203  | 199  | 155 |

TABLE 29

H05(main store): Load case 3503 on 2/12/81

| Load (kg) |     |         | 637                 | 1254 | 1876 | 2495 | 1871 | 635 |
|-----------|-----|---------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |      |      |      |      |     |
| 4         | 1   | 323.5SB | 179                 | 174  | 175  | 179  | 181  | 180 |
|           | 2   |         | 169                 | 175  | 176  | 180  | 182  | 176 |
| 5         | 1   | 223SB   | 163                 | 160  | 165  | 164  | 166  | 170 |
|           | 2   |         | 157                 | 163  | 165  | 165  | 168  | 167 |
| 6         | 1   | 1.6SB   | 163                 | 160  | 164  | 163  | 165  | 170 |
|           | 2   |         | 158                 | 162  | 164  | 164  | 166  | 168 |
| 7         | 1   | 2SB     | 121                 | 122  | 125  | 126  | 126  | 126 |
|           | 2   |         | 118                 | 122  | 126  | 126  | 128  | 126 |
| 8         | 1   | 325.1SB | 231                 | 230  | 236  | 236  | 239  | 246 |
|           | 2   |         | 220                 | 229  | 235  | 236  | 242  | 239 |
| 9         | 1   | 324.3SB | 206                 | 204  | 209  | 209  | 211  | 209 |
|           | 2   |         | 176                 | 195  | 203  | 206  | 208  | 183 |
| 10        | 1   | 324.1SB | 212                 | 208  | 213  | 213  | 215  | 227 |
|           | 2   |         | 198                 | 207  | 213  | 213  | 218  | 219 |
| 11        | 1   | 324.4SB | 207                 | 206  | 211  | 210  | 212  | 219 |
|           | 2   |         | 195                 | 204  | 211  | 210  | 214  | 216 |
| 12        | 1   | 323.3SB | 165                 | 165  | 170  | 172  | 173  | 173 |
|           | 2   |         | 157                 | 165  | 172  | 172  | 174  | 173 |
| 13        | 1   | 323.1SB | 143                 | 143  | 147  | 146  | 147  | 151 |
|           | 2   |         | 138                 | 144  | 148  | 147  | 149  | 150 |
| 14        | 1   | 324.4PT | 217                 | 211  | 211  | 214  | 215  | 214 |
|           | 2   |         | 206                 | 214  | 212  | 215  | 216  | 206 |
| 15        | 1   | 323.5PT | 179                 | 174  | 175  | 179  | 181  | 180 |
|           | 2   |         | 169                 | 175  | 176  | 180  | 182  | 176 |
| 16        | 1   | 18PT    | 140                 | 140  | 140  | 143  | 142  | 140 |
|           | 2   |         | 138                 | 143  | 141  | 143  | 144  | 139 |
| 17        | 1   | 325.1PT | 235                 | 231  | 234  | 237  | 239  | 239 |
|           | 2   |         | 228                 | 235  | 235  | 239  | 242  | 236 |
| 18        | 1   | 324.3PT | 215                 | 209  | 211  | 216  | 217  | 219 |
|           | 2   |         | 207                 | 213  | 213  | 216  | 220  | 216 |
| 19        | 1   | 324.1PT | 215                 | 212  | 213  | 217  | 218  | 216 |
|           | 2   |         | 209                 | 216  | 214  | 218  | 220  | 213 |

TABLE 29 (Continued)

H05 (main store): Load case 3503 on 2/12/81

| Load (kg) |     |       | 637                 | 1254 | 1876 | 2495 | 1871 | 635 |
|-----------|-----|-------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |      |      |      |      |     |
| 20        | 1   | 28.6  | 107                 | 105  | 109  | 112  | 114  | 115 |
|           | 2   |       | 102                 | 108  | 109  | 112  | 115  | 113 |
| 21        | 1   | 28.7  | 124                 | 124  | 128  | 131  | 133  | 134 |
|           | 2   |       | 118                 | 125  | 129  | 131  | 133  | 128 |
| 22        | 1   | 27.1  | 93                  | 92   | 94   | 94   | 94   | 94  |
|           | 2   |       | 89                  | 92   | 94   | 94   | 95   | 94  |
| 23        | 1   | 27.4  | 100                 | 100  | 101  | 102  | 101  | 102 |
|           | 2   |       | 104                 | 102  | 102  | 102  | 102  | 104 |
| 24        | 1   | 28.1  | 105                 | 104  | 108  | 109  | 112  | 113 |
|           | 2   |       | 100                 | 104  | 109  | 110  | 113  | 112 |
| 25        | 1   | 28.2  | 115                 | 115  | 117  | 120  | 121  | 123 |
|           | 2   |       | 110                 | 116  | 118  | 120  | 123  | 118 |
| 26        | 1   | 28.8  | 102                 | 101  | 104  | 106  | 107  | 109 |
|           | 2   |       | 94                  | 101  | 104  | 105  | 108  | 102 |
| 27        | 1   | 28.4  | 99                  | 97   | 101  | 103  | 106  | 106 |
|           | 2   |       | 91                  | 99   | 102  | 103  | 107  | 102 |
| 28        | 1   | 1.4SB | 116                 | 115  | 116  | 116  | 117  | 120 |
|           | 2   |       | 110                 | 113  | 116  | 116  | 117  | 117 |
| 29        | 1   | 16SB  | 210                 | 207  | 211  | 208  | 211  | 219 |
|           | 2   |       | 201                 | 206  | 211  | 209  | 213  | 211 |

TABLE 10

H05(main store): Load case 3603 on 8/7/82

| Load (kg) |     |         | 615                 | 1249 | 1876 | 2484 | 1881 | 620 |
|-----------|-----|---------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |      |      |      |      |     |
| 5         | 1   | 223SB   | 165                 | 167  | 167  | 168  | 170  | 174 |
|           | 2   |         | 165                 | 165  | 166  | 167  | 168  | 171 |
| 6         | 1   | 1.6SB   | 160                 | 163  | 163  | 163  | 163  | 165 |
|           | 2   |         | 163                 | 160  | 162  | 161  | 162  | 163 |
| 7         | 1   | 2SB     | 125                 | 128  | 129  | 129  | 131  | 134 |
|           | 2   |         | 129                 | 126  | 128  | 128  | 129  | 131 |
| 8         | 1   | 325.1SB | 238                 | 244  | 245  | 248  | 249  | 260 |
|           | 2   |         | 246                 | 241  | 244  | 245  | 248  | 252 |
| 9         | 1   | 324.3SB | 212                 | 219  | 219  | 223  | 224  | 234 |
|           | 2   |         | 215                 | 213  | 217  | 221  | 222  | 226 |
| 10        | 1   | 324.1SB | 209                 | 216  | 217  | 220  | 221  | 227 |
|           | 2   |         | 215                 | 213  | 216  | 218  | 220  | 224 |
| 11        | 1   | 324.4SB | 204                 | 208  | 209  | 212  | 212  | 216 |
|           | 2   |         | 207                 | 205  | 208  | 210  | 211  | 210 |
| 12        | 1   | 323.3SB | 170                 | 178  | 178  | 180  | 181  | 184 |
|           | 2   |         | 178                 | 175  | 178  | 178  | 180  | 184 |
| 13        | 1   | 323.1SB | 142                 | 146  | 146  | 146  | 145  | 144 |
|           | 2   |         | 147                 | 143  | 144  | 145  | 144  | 144 |
| 14        | 1   | 324.4PT | 206                 | 214  | 211  | 213  | 214  | 219 |
|           | 2   |         | 212                 | 207  | 211  | 213  | 215  | 214 |
| 15        | 1   | 323.5PT | 168                 | 179  | 179  | 182  | 184  | 187 |
|           | 2   |         | 178                 | 176  | 179  | 182  | 185  | 184 |
| 16        | 1   | 18PT    | 138                 | 143  | 143  | 144  | 146  | 147 |
|           | 2   |         | 144                 | 141  | 143  | 144  | 147  | 147 |
| 17        | 1   | 325.1PT | 223                 | 238  | 237  | 241  | 242  | 245 |
|           | 2   |         | 238                 | 232  | 237  | 241  | 243  | 245 |
| 18        | 1   | 324.3PT | 206                 | 215  | 216  | 219  | 223  | 232 |
|           | 2   |         | 219                 | 214  | 216  | 221  | 223  | 229 |
| 19        | 1   | 324.1PT | 209                 | 219  | 217  | 220  | 223  | 229 |
|           | 2   |         | 219                 | 213  | 217  | 221  | 223  | 226 |
| 20        | 1   | 28.6    | 108                 | 114  | 117  | 119  | 122  | 126 |
|           | 2   |         | 115                 | 113  | 117  | 119  | 122  | 126 |

TABLE 30 (Continued)

H05(main store): Load case 3603 on 8/7/82

| Load (kg) |     |       | 618                 | 1249 | 1876 | 2484 | 1881 | 620 |
|-----------|-----|-------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |      |      |      |      |     |
| 21        | 1   | 28.7  | 118                 | 128  | 130  | 132  | 134  | 137 |
|           | 2   |       | 121                 | 126  | 129  | 131  | 134  | 132 |
| 22        | 1   | 27.1  | 94                  | 94   | 94   | 96   | 96   | 100 |
|           | 2   |       | 96                  | 94   | 94   | 96   | 96   | 98  |
| 23        | 1   | 27.4  | 97                  | 100  | 101  | 102  | 102  | 103 |
|           | 2   |       | 107                 | 101  | 103  | 103  | 104  | 105 |
| 24        | 1   | 28.1  | 107                 | 111  | 112  | 114  | 116  | 119 |
|           | 2   |       | 110                 | 110  | 112  | 113  | 115  | 118 |
| 25        | 1   | 28.2  | 115                 | 122  | 123  | 125  | 127  | 129 |
|           | 2   |       | 120                 | 121  | 123  | 125  | 127  | 127 |
| 26        | 1   | 28.8  | 99                  | 106  | 107  | 109  | 111  | 115 |
|           | 2   |       | 102                 | 103  | 107  | 108  | 111  | 111 |
| 27        | 1   | 28.4  | 91                  | 98   | 100  | 103  | 105  | 106 |
|           | 2   |       | 94                  | 96   | 99   | 102  | 105  | 103 |
| 28        | 1   | 1.4SB | 115                 | 116  | 117  | 117  | 118  | 119 |
|           | 2   |       | 118                 | 115  | 117  | 116  | 117  | 118 |
| 29        | 1   | 27.2  | 94                  | 100  | 101  | 105  | 106  | 111 |
|           | 2   |       | 100                 | 98   | 102  | 105  | 108  | 115 |

TABLE 11

H05(main store): Load case 4103 on 12/12/84

| Load (kg) |     |       | 628                 | 1259 | 1878 | 2497 | 1871 | 635 |
|-----------|-----|-------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |      |      |      |      |     |
| 7         | 1   | 27.4  | 105                 | 104  | 103  | 104  | 103  | 102 |
|           | 2   |       | 100                 | 102  | 102  | 101  | 100  | 94  |
| 8         | 1   | 27.1  | *                   | 91   | 92   | 92   | 94   | 94  |
|           | 2   |       |                     | 92   | 91   | 92   | 93   | 95  |
| 9         | 1   | 35A   |                     | 40   | 47   | 55   | 64   | 71  |
|           | 2   |       |                     | 40   | 47   | 55   | 62   | 68  |
| 10        | 1   | 35B   |                     | 13   | 16   | 21   | 24   | 27  |
|           | 2   |       |                     | 13   | 16   | 20   | 23   | 26  |
| 11        | 1   | 35C   |                     | 41   | 48   | 53   | 57   | 62  |
|           | 2   |       |                     | 43   | 48   | 53   | 56   | 61  |
| 12        | 1   | 134T  |                     | 0    | 0    | 0    | 0    | 0   |
|           | 2   |       |                     | 0    | 0    | 0    | 0    | 0   |
| 13        | 1   | 27    |                     | 0    | 0    | 0    | 0    | 0   |
|           | 2   |       |                     | 0    | 0    | 0    | 0    | 0   |
| 14        | 1   | 28.1  |                     | 99   | 103  | 105  | 109  | 111 |
|           | 2   |       |                     | 103  | 103  | 105  | 108  | 111 |
| 15        | 1   | 29    |                     | -5   | -6   | -5   | -6   | -5  |
|           | 2   |       |                     | -8   | -6   | -5   | -6   | -5  |
| 16        | 1   | 28.7  | *                   | 116  | 122  | 126  | 130  | 133 |
|           | 2   |       |                     | 119  | 122  | 126  | 129  | 133 |
| 17        | 1   | 31    |                     | -5   | -2   | -2   | -3   | -3  |
|           | 2   |       |                     | -3   | -2   | -2   | -2   | -3  |
| 18        | 1   | 33    | *                   | 5    | 8    | 7    | 7    | 7   |
|           | 2   |       |                     | 8    | 6    | 8    | 8    | 7   |
| 19        | 1   | 134S  |                     | 0    | 0    | 0    | 0    | 0   |
|           | 2   |       |                     | 0    | 0    | 0    | 0    | 0   |
| 20        | 1   | 36A   |                     | 89   | 94   | 99   | 105  | 109 |
|           | 2   |       |                     | 84   | 94   | 98   | 102  | 106 |
| 21        | 1   | 36B   |                     | 57   | 61   | 67   | 72   | 76  |
|           | 2   |       |                     | 54   | 61   | 67   | 70   | 75  |
| 22        | 1   | TEMP  |                     | 0    | 0    | 0    | 0    | 0   |
|           | 2   |       |                     | 0    | 0    | 0    | 0    | 0   |

TABLE 31 (Continued)

H05(main store): Load case 4103 on 12/12/84

| Load (kg) |     |       |   | 628                 | 1259 | 1878 | 2497 | 1871 | 635 |
|-----------|-----|-------|---|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge |   | Microstrain/1000 kg |      |      |      |      |     |
| 23        | 1   | 4     | * | 8                   | 9    | 9    | 8    | 9    | 9   |
|           | 2   |       |   | 8                   | 9    | 9    | 8    | 9    | 9   |
| 24        | 1   | 5     |   | 5                   | 4    | 3    | 3    | 3    | 3   |
|           | 2   |       |   | 5                   | 4    | 3    | 3    | 3    | 5   |
| 25        | 1   | 6     |   | 0                   | 0    | -1   | -1   | -1   | 0   |
|           | 2   |       |   | 0                   | -1   | -1   | -1   | -2   | -2  |
| 26        | 1   | 7     |   | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |       |   | 0                   | 0    | 0    | 0    | 0    | 0   |
| 27        | 1   | 11    |   | 0                   | 0    | 0    | 0    | 2    | 2   |
|           | 2   |       |   | 0                   | 0    | 0    | 0    | 1    | 2   |
| 28        | 1   | 12    |   | -6                  | -4   | -3   | -2   | -2   | -3  |
|           | 2   |       |   | -5                  | -4   | -3   | -2   | -1   | -2  |
| 29        | 1   | 13    |   | -2                  | -2   | -1   | 0    | -1   | -2  |
|           | 2   |       |   | -2                  | -1   | -1   | 0    | 0    | 0   |
| 30        | 1   | 20    | * | 10                  | 10   | 9    | 10   | 10   | 9   |
|           | 2   |       |   | 8                   | 10   | 10   | 10   | 11   | 9   |
| 31        | 1   | 21    |   | 8                   | 9    | 10   | 11   | 11   | 8   |
|           | 2   |       |   | 10                  | 9    | 9    | 11   | 10   | 9   |
| 32        | 1   | 24    | * | 14                  | 15   | 15   | 16   | 17   | 16  |
|           | 2   |       |   | 14                  | 16   | 16   | 16   | 17   | 19  |
| 33        | 1   | 25    | * | 16                  | 17   | 17   | 18   | 19   | 19  |
|           | 2   |       |   | 16                  | 16   | 17   | 18   | 18   | 19  |
| 34        | 1   | 21T   |   | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |       |   | 0                   | 0    | 0    | 0    | 0    | 0   |
| 35        | 1   | 37    |   | 140                 | 147  | 154  | 161  | 167  | 167 |
|           | 2   |       |   | 145                 | 147  | 154  | 158  | 166  | 170 |
| 36        | 1   | 14    |   | -2                  | -1   | -1   | -1   | -1   | -2  |
|           | 2   |       |   | -2                  | -1   | -1   | -1   | -1   | -2  |
| 37        | 1   | 38    |   | 156                 | 164  | 169  | 175  | 179  | 176 |
|           | 2   |       |   | 161                 | 164  | 169  | 173  | 177  | 176 |
| 38        | 1   | 18A   |   | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |       |   | -3                  | 0    | 0    | 0    | 0    | 0   |

TABLE 31 (Continued)

H05(main store): Load case 4103 on 12/12/84

| Load (kg) |     |         | 628                 | 1259 | 1878 | 2497 | 1871 | 635 |
|-----------|-----|---------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |      |      |      |      |     |
| 39        | 1   | 39      | 161                 | 168  | 174  | 179  | 184  | 181 |
|           | 2   |         | 162                 | 167  | 174  | 177  | 183  | 183 |
| 40        | 1   | 22A     | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |         | 0                   | 0    | 0    | 0    | 0    | 0   |
| 41        | 1   | 40      | 121                 | 127  | 133  | 139  | 142  | 139 |
|           | 2   |         | 123                 | 127  | 133  | 137  | 141  | 142 |
| 42        | 1   | 21C     | -6                  | -6   | -5   | -6   | -6   | -6  |
|           | 2   |         | -5                  | -6   | -5   | -5   | -5   | -6  |
| 43        | 1   | 16      | -2                  | -2   | -1   | -1   | -2   | -3  |
|           | 2   |         | -3                  | -2   | -2   | -2   | -2   | -3  |
| 44        | 1   | 324.3SB | 204                 | 212  | 214  | 219  | 224  | 224 |
|           | 2   |         | 210                 | 209  | 214  | 218  | 222  | 224 |
| 45        | 1   | 324.3PT | 218                 | 211  | 215  | 222  | 225  | 227 |
|           | 2   |         | 207                 | 211  | 217  | 218  | 223  | 227 |
| 46        | 1   | 43      | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |         | -2                  | -1   | -1   | 0    | -1   | -2  |
| 47        | 1   | 44      | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |         | 0                   | 0    | 0    | 0    | 0    | 0   |

\* Sign reversed.

TABLE 32

H05(main store): Load case 4203 on 13/2/85

| Load (kg) |     |        | 615                 | 1261 | 1862 | 2511 | 1894 | 615 |
|-----------|-----|--------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge  | Microstrain/1000 kg |      |      |      |      |     |
| 7         | 1   | 27.4   | 106                 | 104  | 106  | 105  | 104  | 101 |
|           | 2   |        | 101                 | 104  | 104  | 105  | 106  | 101 |
| 8         | 1   | 27.1 * | 99                  | 96   | 97   | 95   | 95   | 103 |
|           | 2   |        | 99                  | 97   | 96   | 96   | 99   | 101 |
| 9         | 1   | 35A    | 33                  | 40   | 51   | 60   | 64   | 80  |
|           | 2   |        | 41                  | 44   | 51   | 62   | 68   | 83  |
| 10        | 1   | 35B    | 3                   | 10   | 17   | 20   | 22   | 28  |
|           | 2   |        | 5                   | 12   | 16   | 21   | 23   | 28  |
| 11        | 1   | 35C    | 33                  | 39   | 47   | 52   | 54   | 63  |
|           | 2   |        | 44                  | 44   | 47   | 52   | 56   | 67  |
| 12        | 1   | 134T   | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |        | 0                   | 0    | 0    | 0    | 0    | 0   |
| 13        | 1   | 27     | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |        | 0                   | 0    | 0    | 0    | 0    | 0   |
| 14        | 1   | 28.1   | 109                 | 105  | 107  | 109  | 110  | 125 |
|           | 2   |        | 111                 | 109  | 107  | 110  | 115  | 125 |
| 15        | 1   | 29     | -5                  | -2   | -4   | -3   | -3   | 0   |
|           | 2   |        | 0                   | -2   | -2   | -3   | -2   | 5   |
| 16        | 1   | 28.7 * | 130                 | 126  | 128  | 129  | 131  | 142 |
|           | 2   |        | 125                 | 125  | 127  | 129  | 135  | 138 |
| 17        | 1   | 31     | 8                   | 0    | 0    | 1    | 1    | 5   |
|           | 2   |        | 11                  | 6    | 1    | 1    | 1    | 3   |
| 18        | 1   | 33 *   | 16                  | 10   | 10   | 9    | 9    | 13  |
|           | 2   |        | 16                  | 12   | 9    | 8    | 10   | 11  |
| 19        | 1   | 134S   | -3                  | -2   | -1   | 0    | 0    | 0   |
|           | 2   |        | -3                  | -2   | 0    | 0    | 0    | 0   |
| 20        | 1   | 36A    | 83                  | 86   | 92   | 98   | 101  | 117 |
|           | 2   |        | 91                  | 89   | 92   | 100  | 105  | 122 |
| 21        | 1   | 36B    | 44                  | 52   | 60   | 65   | 67   | 72  |
|           | 2   |        | 47                  | 53   | 58   | 65   | 69   | 72  |
| 22        | 1   | TEMP   | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |        | 0                   | 0    | 0    | 0    | 0    | 0   |

TABLE 32 (Continued)

H05(main store): Load case 4203 on 13/2/85

| Load (kg) |     |       |   | 615                 | 1261 | 1862 | 2511 | 1894 | 615 |
|-----------|-----|-------|---|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge |   | Microstrain/1000 kg |      |      |      |      |     |
| 23        | 1   | 4     | * | 10                  | 9    | 9    | 8    | 8    | 10  |
|           | 2   |       |   | 7                   | 7    | 8    | 8    | 8    | 5   |
| 24        | 1   | 5     |   | 2                   | 2    | 3    | 3    | 3    | 2   |
|           | 2   |       |   | 0                   | 2    | 3    | 3    | 3    | 0   |
| 25        | 1   | 6     |   | -3                  | -2   | -2   | -2   | -2   | -3  |
|           | 2   |       |   | -3                  | -2   | -2   | -2   | -2   | -3  |
| 26        | 1   | 7     |   | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |       |   | 0                   | 0    | 0    | 0    | 0    | 0   |
| 27        | 1   | 11    |   | -8                  | -3   | -2   | -2   | -2   | -5  |
|           | 2   |       |   | -5                  | -2   | -2   | -2   | -1   | -3  |
| 28        | 1   | 12    |   | -13                 | -7   | -5   | -4   | -4   | -10 |
|           | 2   |       |   | -13                 | -8   | -6   | -4   | -5   | -13 |
| 29        | 1   | 13    |   | -10                 | -5   | -3   | -2   | -2   | -7  |
|           | 2   |       |   | -8                  | -4   | -3   | -1   | -2   | -5  |
| 30        | 1   | 20    | * | 10                  | 10   | 11   | 12   | 12   | 16  |
|           | 2   |       |   | 13                  | 11   | 12   | 13   | 13   | 21  |
| 31        | 1   | 21    |   | 8                   | 9    | 9    | 10   | 9    | 5   |
|           | 2   |       |   | 3                   | 8    | 8    | 9    | 8    | 3   |
| 32        | 1   | 24    | * | 20                  | 18   | 18   | 18   | 20   | 28  |
|           | 2   |       |   | 23                  | 19   | 19   | 19   | 21   | 31  |
| 33        | 1   | 25    | * | 23                  | 19   | 19   | 19   | 20   | 26  |
|           | 2   |       |   | 23                  | 19   | 18   | 18   | 20   | 23  |
| 34        | 1   | 21T   |   | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |       |   | 0                   | 0    | 0    | 0    | 0    | 0   |
| 35        | 1   | 37    |   | 148                 | 148  | 156  | 160  | 164  | 187 |
|           | 2   |       |   | 153                 | 151  | 154  | 161  | 169  | 181 |
| 36        | 1   | 14    |   | -2                  | -1   | -1   | 0    | -1   | 0   |
|           | 2   |       |   | 2                   | 0    | -1   | 0    | 0    | 2   |
| 37        | 1   | 38    |   | 171                 | 167  | 172  | 174  | 175  | 194 |
|           | 2   |       |   | 174                 | 169  | 170  | 174  | 182  | 194 |
| 38        | 1   | 18A   |   | -3                  | -2   | -1   | -1   | -1   | -3  |
|           | 2   |       |   | -3                  | -2   | -1   | 0    | 0    | 0   |

TABLE 32 (Continued)

H05(main store): Load case 4203 on 13/2/85

| Load (kg) |     |         | 615                 | 1261 | 1862 | 2511 | 1894 | 615 |
|-----------|-----|---------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |      |      |      |      |     |
| 39        | 1   | 39      | 176                 | 170  | 175  | 178  | 180  | 200 |
|           | 2   |         | 176                 | 174  | 173  | 178  | 185  | 198 |
| 40        | 1   | 22A     | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |         | 0                   | 0    | 0    | 0    | 0    | 0   |
| 41        | 1   | 40      | 132                 | 129  | 135  | 137  | 139  | 155 |
|           | 2   |         | 135                 | 129  | 133  | 138  | 143  | 151 |
| 42        | 1   | 21C     | -7                  | -6   | -5   | -5   | -5   | -7  |
|           | 2   |         | -2                  | -4   | -4   | -4   | -5   | -2  |
| 43        | 1   | 16      | -2                  | -1   | -1   | -1   | -1   | 0   |
|           | 2   |         | 0                   | 0    | -1   | 0    | -1   | 2   |
| 44        | 1   | 324.3SB | 225                 | 214  | 220  | 221  | 225  | 247 |
|           | 2   |         | 231                 | 220  | 218  | 222  | 232  | 247 |
| 45        | 1   | 324.3PT | 216                 | 214  | 216  | 219  | 222  | 241 |
|           | 2   |         | 216                 | 214  | 215  | 219  | 226  | 246 |
| 46        | 1   | 43      | 0                   | 0    | 0    | 0    | -1   | 0   |
|           | 2   |         | 0                   | -1   | -1   | 0    | -1   | -2  |
| 47        | 1   | 44      | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 2   |         | 0                   | 0    | 0    | 0    | 0    | 0   |

\* Sign reversed.

TABLE 33

H05(main store): Load case 4303 on 27/3/85

| Load (kg) |     |        | 626                 | 1268 | 1880 | 2492 | 1867 | 624 |
|-----------|-----|--------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge  | Microstrain/1000 kg |      |      |      |      |     |
| 7         | 1   | 27.4   | 99                  |      | 102  | 101  | 98   | 95  |
|           | 2   |        | 96                  | 96   | 98   | 99   | 97   | 95  |
|           | 3   |        | 91                  | 98   | 98   | 99   | 99   | 88  |
| 8         | 1   | 27.1 * | 88                  |      | 91   | 92   | 91   | 88  |
|           | 2   |        | 83                  | 88   | 90   | 92   | 91   | 85  |
|           | 3   |        | 81                  | 86   | 89   | 90   | 92   | 83  |
| 9         | 1   | 35A    | 46                  |      | 60   | 65   | 71   | 77  |
|           | 2   |        | 38                  | 48   | 56   | 65   | 70   | 58  |
|           | 3   |        | 32                  | 50   | 60   | 62   | 68   | 71  |
| 10        | 1   | 35B    | 16                  |      | 22   | 25   | 27   | 30  |
|           | 2   |        | 13                  | 17   | 22   | 26   | 28   | 22  |
|           | 3   |        | 11                  | 19   | 22   | 24   | 26   | 27  |
| 11        | 1   | 35C    | 51                  |      | 63   | 66   | 69   | 71  |
|           | 2   |        | 50                  | 57   | 62   | 68   | 73   | 55  |
|           | 3   |        | 42                  | 55   | 63   | 64   | 69   | 66  |
| 12        | 1   | 134T   | 0                   |      | 0    | 0    | 0    | 0   |
|           | 2   |        | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 3   |        | 0                   | 0    | 0    | 0    | 0    | 0   |
| 13        | 1   | 27     | 0                   |      | 0    | 0    | 0    | 0   |
|           | 2   |        | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 3   |        | 0                   | 0    | 0    | 0    | 0    | 0   |
| 14        | 1   | 28.1   | 99                  |      | 106  | 108  | 108  | 109 |
|           | 2   |        | 101                 | 104  | 107  | 110  | 111  | 107 |
|           | 3   |        | 99                  | 105  | 107  | 108  | 113  | 109 |
| 15        | 1   | 29 *   | 5                   |      | 5    | 6    | 5    | 8   |
|           | 2   |        | 11                  | 8    | 7    | 7    | 8    | 13  |
|           | 3   |        | 13                  | 9    | 8    | 8    | 9    | 19  |
| 16        | 1   | 28.7 * | 117                 |      | 128  | 129  | 130  | 135 |
|           | 2   |        | 120                 | 122  | 126  | 129  | 132  | 128 |
|           | 3   |        | 115                 | 124  | 127  | 128  | 133  | 135 |
| 17        | 1   | 31     | -8                  |      | -5   | -4   | -5   | -13 |
|           | 2   |        | -5                  | -2   | -4   | -3   | -3   | -11 |
|           | 3   |        | -5                  | -6   | -5   | -5   | -6   | -16 |
| 18        | 1   | 33 *   | 5                   |      | 8    | 7    | 7    | 5   |
|           | 2   |        | 11                  | 10   | 9    | 9    | 9    | 8   |
|           | 3   |        | 11                  | 9    | 8    | 7    | 9    | 5   |

TABLE 33 (Continued)

H05(main store): Load case 4303 on 27/3/85

| Load (kg) |     |       | 626                 | 1268 | 1880 | 2492 | 1867 | 624 |
|-----------|-----|-------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |      |      |      |      |     |
| 19        | 1   | 134S  | 0                   |      | 0    | 1    | 1    | 3   |
|           | 2   |       | 3                   | 2    | 1    | 1    | 1    | 3   |
|           | 3   |       | 3                   | 2    | 2    | 2    | 2    | 3   |
| 20        | 1   | 36A   | 93                  |      | 102  | 105  | 107  | 112 |
|           | 2   |       | 88                  | 94   | 99   | 104  | 107  | 96  |
|           | 3   |       | 78                  | 95   | 102  | 102  | 107  | 104 |
| 21        | 1   | 36B   | 61                  |      | 71   | 73   | 76   | 77  |
|           | 2   |       | 58                  | 65   | 70   | 73   | 76   | 66  |
|           | 3   |       | 51                  | 67   | 72   | 72   | 77   | 77  |
| 22        | 1   | TEMP  | 0                   |      | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 3   |       | 0                   | 0    | 0    | 0    | 0    | 0   |
| 23        | 1   | 4 *   | 8                   |      | 9    | 8    | 9    | 8   |
|           | 2   |       | 6                   | 8    | 8    | 8    | 9    | 8   |
|           | 3   |       | 6                   | 7    | 8    | 8    | 9    | 8   |
| 24        | 1   | 5     | 3                   |      | 3    | 3    | 3    | 5   |
|           | 2   |       | 13                  | 7    | 6    | 5    | 5    | 14  |
|           | 3   |       | 16                  | 9    | 6    | 6    | 7    | 16  |
| 25        | 1   | 6     | 0                   |      | -2   | -2   | -2   | 0   |
|           | 2   |       | 3                   | 0    | -1   | -2   | -2   | 3   |
|           | 3   |       | 3                   | 0    | -1   | -2   | -2   | 2   |
| 26        | 1   | 7     | 0                   |      | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 3   |       | 0                   | 0    | 0    | 0    | 0    | 0   |
| 27        | 1   | 11    | 0                   |      | 3    | 4    | 5    | 5   |
|           | 2   |       | -2                  | 2    | 3    | 4    | 5    | 0   |
|           | 3   |       | -2                  | 2    | 4    | 4    | 4    | 2   |
| 28        | 1   | 12    | -2                  |      | -3   | -4   | -4   | -2  |
|           | 2   |       | 5                   | 0    | -2   | -2   | -2   | 6   |
|           | 3   |       | 8                   | 1    | -1   | -2   | -1   | 10  |
| 29        | 1   | 13    | 0                   |      | -4   | -4   | -5   | -2  |
|           | 2   |       | 8                   | 1    | -2   | -3   | -4   | 6   |
|           | 3   |       | 8                   | 1    | -2   | -3   | -3   | 5   |
| 30        | 1   | 20 *  | 8                   |      | 11   | 11   | 10   | 10  |
|           | 2   |       | 3                   | 6    | 7    | 8    | 8    | 0   |
|           | 3   |       | -3                  | 5    | 7    | 8    | 7    | 0   |

TABLE 33 (Continued)

HOS (main store): Load case 4303 on 27/3/85

| Load (kg) |     |       | 626                 | 1268 | 1850 | 2492 | 1867 | 624 |
|-----------|-----|-------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |      |      |      |      |     |
| 31        | 1   | 21    | 8                   |      | 9    | 10   | 9    | 8   |
|           | 2   |       | 3                   | 6    | 7    | 9    | 9    | 3   |
|           | 3   |       | 3                   | 5    | 7    | 5    | 8    | 3   |
| 32        | 1   | 24 *  | 13                  |      | 16   | 16   | 16   | 13  |
|           | 2   |       | 5                   | 10   | 13   | 14   | 13   | 5   |
|           | 3   |       | 2                   | 9    | 12   | 13   | 12   | 2   |
| 33        | 1   | 25 *  | 16                  |      | 17   | 18   | 18   | 19  |
|           | 2   |       | 19                  | 18   | 18   | 18   | 20   | 22  |
|           | 3   |       | 19                  | 18   | 18   | 15   | 19   | 22  |
| 34        | 1   | 21T   | 0                   |      | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 3   |       | 0                   | 0    | 0    | 0    | 0    | 0   |
| 35        | 1   | 37    | 141                 |      | 157  | 161  | 163  | 167 |
|           | 2   |       | 145                 | 151  | 157  | 164  | 169  | 159 |
|           | 3   |       | 141                 | 153  | 160  | 161  | 169  | 173 |
| 36        | 1   | 14    | 0                   |      | -1   | 0    | -1   | 2   |
|           | 2   |       | 2                   | 1    | 1    | 0    | 0    | 2   |
|           | 3   |       | 2                   | 1    | 0    | 0    | -1   | 2   |
| 37        | 1   | 38    | 157                 |      | 172  | 174  | 174  | 173 |
|           | 2   |       | 168                 | 170  | 173  | 177  | 179  | 173 |
|           | 3   |       | 161                 | 171  | 174  | 175  | 182  | 183 |
| 38        | 1   | 18A   | 0                   |      | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 3   |       | 0                   | 0    | 0    | 0    | 0    | -3  |
| 39        | 1   | 39    | 161                 |      | 177  | 179  | 178  | 181 |
|           | 2   |       | 173                 | 173  | 177  | 181  | 184  | 181 |
|           | 3   |       | 166                 | 175  | 178  | 179  | 187  | 189 |
| 40        | 1   | 22A   | 0                   |      | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 3   |       | 0                   | 0    | 0    | 0    | 0    | 0   |
| 41        | 1   | 40    | 123                 |      | 137  | 140  | 141  | 144 |
|           | 2   |       | 133                 | 134  | 137  | 142  | 146  | 144 |
|           | 3   |       | 129                 | 136  | 140  | 141  | 148  | 152 |
| 42        | 1   | 21C   | -2                  |      | -4   | -4   | -5   | -5  |
|           | 2   |       | -2                  | -3   | -4   | -4   | -4   | -2  |
|           | 3   |       | -2                  | -3   | -4   | -4   | -5   | -5  |

TABLE 33 (Continued)

H05 (main store): Load case 4303 on 27/3/85

| Load (kg) |     |         | 626                 | 1268 | 1880 | 2492 | 1867 | 624 |
|-----------|-----|---------|---------------------|------|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |      |      |      |      |     |
| 43        | 1   | 16      | -2                  |      | -1   | -1   | -1   | -2  |
|           | 2   |         | -2                  | -2   | -1   | -1   | -1   | -2  |
|           | 3   |         | -3                  | -2   | -2   | -2   | -2   | -5  |
| 44        | 1   | 324.3SB | 200                 |      | 214  | 218  | 217  | 216 |
|           | 2   |         | 204                 | 211  | 214  | 222  | 224  | 212 |
|           | 3   |         | 200                 | 211  | 214  | 217  | 222  | 216 |
| 45        | 1   | 324.3PT | 212                 |      | 218  | 217  | 218  | 231 |
|           | 2   |         | 212                 | 207  | 213  | 215  | 216  | 224 |
|           | 3   |         | 208                 | 210  | 213  | 214  | 222  | 231 |
| 46        | 1   | 43      | 0                   |      | 0    | 0    | 0    | 0   |
|           | 2   |         | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 3   |         | 0                   | 0    | 0    | 0    | 0    | 0   |
| 47        | 1   | 44      | 0                   |      | 0    | 0    | 0    | 0   |
|           | 2   |         | 0                   | 0    | 0    | 0    | 0    | 0   |
|           | 3   |         | 0                   | 0    | 0    | 0    | 0    | 0   |

\* Sign reversed.

TABLE 34

H07(Sidewinder): Load case 2606-12 on 11/5/75

| Load (kg) |     |         | 465                 | 925 | 1386 | 1842 | 1390 | 467 |
|-----------|-----|---------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |     |      |      |      |     |
| 5         | 1   | 27.2    | 161                 | 168 | 171  | 172  | 176  | 176 |
|           | 2   |         | 159                 | 168 | 169  | 172  | 175  | 173 |
| 6         | 1   | 27.3    | 114                 | 119 | 121  | 122  | 126  | 131 |
|           | 2   |         | 114                 | 119 | 119  | 122  | 126  | 128 |
| 7         | 1   | 27.4    | 165                 | 172 | 173  | 174  | 175  | 176 |
|           | 2   |         | 168                 | 173 | 172  | 174  | 173  | 171 |
| 8         | 1   | 27.5    | 37                  | 45  | 50   | 51   | 56   | 56  |
|           | 2   |         | 37                  | 45  | 48   | 51   | 55   | 56  |
| 9         | 1   | 1.6SB   | 217                 | 218 | 221  | 222  | 222  | 227 |
|           | 2   |         | 217                 | 220 | 220  | 222  | 222  | 220 |
| 10        | 1   | 2SB     | 181                 | 184 | 186  | 187  | 190  | 197 |
|           | 2   |         | 183                 | 186 | 185  | 188  | 190  | 190 |
| 11        | 1   | 223SB   | 243                 | 249 | 255  | 256  | 260  | 268 |
|           | 2   |         | 245                 | 251 | 254  | 257  | 260  | 263 |
| 12        | 1   | 320SB   | 381                 | 394 | 398  | 398  | 400  | 413 |
|           | 2   |         | 389                 | 399 | 397  | 400  | 402  | 405 |
| 13        | 1   | 323.3SB | 271                 | 278 | 284  | 286  | 289  | 298 |
|           | 2   |         | 273                 | 280 | 283  | 286  | 290  | 291 |
| 14        | 1   | 326SB   | 237                 | 249 | 257  | 261  | 268  | 278 |
|           | 2   |         | 239                 | 251 | 257  | 262  | 268  | 272 |
| 15        | 1   | 328SB   | 215                 | 216 | 219  | 220  | 222  | 233 |
|           | 2   |         | 217                 | 218 | 219  | 221  | 222  | 227 |
| 16        | 1   | 28.2    | 183                 | 192 | 198  | 199  | 205  | 203 |
|           | 2   |         | 185                 | 193 | 196  | 199  | 204  | 201 |
| 17        | 1   | 28.4    | 148                 | 159 | 164  | 167  | 173  | 173 |
|           | 2   |         | 148                 | 159 | 162  | 167  | 172  | 171 |
| 18        | 1   | 28.5    | 148                 | 156 | 159  | 160  | 164  | 169 |
|           | 2   |         | 151                 | 156 | 157  | 160  | 163  | 167 |
| 19        | 1   | 28.6    | 161                 | 170 | 175  | 178  | 183  | 186 |
|           | 2   |         | 163                 | 170 | 173  | 178  | 183  | 182 |
| 20        | 1   | 28.7    | 170                 | 174 | 178  | 180  | 183  | 186 |
|           | 2   |         | 170                 | 175 | 178  | 180  | 183  | 184 |

TABLE 34 (Continued)

H07 (Sidewinder): Load case 2606-12 on 11-8-78

| Load (kg) |     |       | 465                 | 925 | 1386 | 1842 | 1390 | 467 |
|-----------|-----|-------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |     |      |      |      |     |
| 21        | 1   | 28.8  | 138                 | 142 | 144  | 145  | 147  | 148 |
|           | 2   |       | 136                 | 142 | 142  | 145  | 147  | 146 |
| 22        | 1   | 28.9  | 97                  | 102 | 104  | 104  | 107  | 109 |
|           | 2   |       | 99                  | 102 | 104  | 104  | 107  | 107 |
| 23        | 1   | 28.10 | 90                  | 92  | 95   | 93   | 96   | 94  |
|           | 2   |       | 90                  | 94  | 94   | 94   | 96   | 94  |
| 24        | 1   | 1.4SB | 194                 | 200 | 204  | 206  | 208  | 214 |
|           | 2   |       | 198                 | 202 | 204  | 207  | 208  | 210 |
| 25        | 1   | 16SB  | 310                 | 321 | 326  | 326  | 330  | 338 |
|           | 2   |       | 314                 | 324 | 325  | 327  | 332  | 330 |
| 26        | 1   | 18PT  | 200                 | 205 | 210  | 211  | 215  | 212 |
|           | 2   |       | 200                 | 207 | 208  | 211  | 214  | 210 |
| 27        | 1   | 27.1  | 140                 | 142 | 146  | 147  | 150  | 154 |
|           | 2   |       | 142                 | 144 | 144  | 148  | 150  | 152 |
| 28        | 1   | 28.1  | 168                 | 175 | 180  | 181  | 184  | 188 |
|           | 2   |       | 172                 | 177 | 180  | 181  | 185  | 186 |

TABLE 35

H07 (Sidewinder) : Load case 2606-45 on 14-8-78

| Load (kg) |     |         | 467                 | 923 | 1386 | 1851 | 1379 | 465 |
|-----------|-----|---------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |     |      |      |      |     |
| 5         | 4   | 27.2    | 161                 | 165 | 168  | 169  | 173  | 174 |
|           | 5   |         | 156                 | 167 | 168  | 170  | 174  | 174 |
| 6         | 4   | 27.3    | 116                 | 119 | 121  | 122  | 125  | 131 |
|           | 5   |         | 116                 | 119 | 121  | 122  | 125  | 129 |
| 7         | 4   | 27.4    | 169                 | 172 | 172  | 173  | 173  | 179 |
|           | 5   |         | 169                 | 174 | 172  | 174  | 175  | 176 |
| 8         | 4   | 27.5    | 43                  | 47  | 51   | 52   | 57   | 60  |
|           | 5   |         | 41                  | 47  | 51   | 52   | 57   | 58  |
| 9         | 4   | 1.6SB   | 223                 | 224 | 226  | 225  | 226  | 226 |
|           | 5   |         | 223                 | 223 | 223  | 225  | 226  | 228 |
| 10        | 4   | 2SB     | 188                 | 189 | 191  | 191  | 193  | 198 |
|           | 5   |         | 186                 | 189 | 188  | 191  | 193  | 198 |
| 11        | 4   | 223SB   | 253                 | 256 | 260  | 260  | 265  | 271 |
|           | 5   |         | 250                 | 256 | 257  | 260  | 265  | 271 |
| 12        | 4   | 320SB   | 402                 | 404 | 406  | 404  | 408  | 415 |
|           | 5   |         | 394                 | 405 | 403  | 406  | 409  | 417 |
| 13        | 4   | 323.3SB | 278                 | 284 | 289  | 289  | 294  | 299 |
|           | 5   |         | 276                 | 285 | 286  | 289  | 294  | 299 |
| 14        | 4   | 326SB   | 246                 | 256 | 263  | 265  | 273  | 288 |
|           | 5   |         | 250                 | 258 | 262  | 266  | 273  | 284 |
| 15        | 4   | 328SB   | 223                 | 221 | 223  | 223  | 226  | 232 |
|           | 5   |         | 220                 | 221 | 220  | 224  | 226  | 232 |
| 16        | 4   | 28.2    | 188                 | 193 | 198  | 199  | 205  | 213 |
|           | 5   |         | 188                 | 196 | 198  | 200  | 207  | 213 |
| 17        | 4   | 28.4    | 152                 | 157 | 162  | 165  | 172  | 181 |
|           | 5   |         | 154                 | 160 | 163  | 166  | 173  | 181 |
| 18        | 4   | 28.5    | 152                 | 158 | 161  | 162  | 166  | 172 |
|           | 5   |         | 152                 | 159 | 159  | 162  | 166  | 170 |
| 19        | 4   | 28.6    | 167                 | 170 | 176  | 178  | 184  | 191 |
|           | 5   |         | 165                 | 172 | 175  | 178  | 185  | 189 |
| 20        | 4   | 28.7    | 173                 | 176 | 179  | 182  | 185  | 194 |
|           | 5   |         | 173                 | 178 | 178  | 182  | 186  | 194 |

TABLE 35 (Continued)

H07 (Sidewinder): Load case 2606-45 on 14/8/78

| Load (kg) |     |       | 467                 | 923 | 1386 | 1851 | 1379 | 465 |
|-----------|-----|-------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |     |      |      |      |     |
| 21        | 4   | 28.8  | 139                 | 140 | 144  | 144  | 148  | 155 |
|           | 5   |       | 139                 | 142 | 142  | 145  | 148  | 155 |
| 22        | 4   | 28.9  | 98                  | 102 | 104  | 104  | 107  | 108 |
|           | 5   |       | 98                  | 102 | 102  | 104  | 108  | 110 |
| 23        | 4   | 28.10 | 94                  | 92  | 95   | 95   | 95   | 90  |
|           | 5   |       | 90                  | 92  | 95   | 95   | 95   | 95  |
| 24        | 4   | 1.4SB | 203                 | 206 | 209  | 210  | 212  | 213 |
|           | 5   |       | 201                 | 206 | 206  | 210  | 212  | 213 |
| 25        | 4   | 16SB  | 321                 | 328 | 331  | 331  | 335  | 338 |
|           | 5   |       | 319                 | 329 | 328  | 331  | 336  | 340 |
| 26        | 4   | 18PT  | 205                 | 205 | 209  | 211  | 213  | 219 |
|           | 5   |       | 201                 | 207 | 209  | 211  | 215  | 215 |
| 27        | 4   | 27.1  | 141                 | 142 | 146  | 148  | 149  | 153 |
|           | 5   |       | 143                 | 143 | 145  | 148  | 150  | 155 |
| 28        | 4   | 28.1  | 173                 | 179 | 183  | 183  | 186  | 191 |
|           | 5   |       | 173                 | 180 | 181  | 183  | 188  | 191 |

TABLE 36

H07(Sidewinder): Load case 2706 on 18/12/78

| Load (kg) |     |         | 463                 | 919 | 1383 | 1844 | 1386 | 463 |
|-----------|-----|---------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |     |      |      |      |     |
| 5         | 1   | 27.2    | 156                 | 165 | 166  | 168  | 170  | 175 |
|           | 2   |         | 156                 | 162 | 165  | 167  | 170  | 162 |
| 6         | 1   | 27.3    | 125                 | 124 | 122  | 124  | 128  | 134 |
|           | 2   |         | 123                 | 121 | 122  | 124  | 127  | 130 |
| 7         | 1   | 27.4    | 169                 | 173 | 171  | 174  | 173  | 177 |
|           | 2   |         | 166                 | 169 | 171  | 173  | 172  | 169 |
| 8         | 1   | 27.5    | 39                  | 48  | 50   | 52   | 56   | 56  |
|           | 2   |         | 37                  | 46  | 48   | 51   | 53   | 37  |
| 9         | 1   | 1.6SB   | 227                 | 228 | 226  | 228  | 227  | 236 |
|           | 2   |         | 229                 | 224 | 226  | 228  | 229  | 231 |
| 10        | 1   | 2SB     | 190                 | 192 | 190  | 193  | 193  | 199 |
|           | 2   |         | 192                 | 188 | 192  | 193  | 194  | 197 |
| 11        | 1   | 223SB   | 259                 | 262 | 260  | 264  | 266  | 272 |
|           | 2   |         | 257                 | 257 | 261  | 264  | 268  | 270 |
| 12        | 1   | 320SB   | 402                 | 404 | 398  | 402  | 400  | 409 |
|           | 2   |         | 402                 | 401 | 400  | 403  | 403  | 400 |
| 13        | 1   | 323.3SB | 285                 | 295 | 293  | 295  | 296  | 303 |
|           | 2   |         | 290                 | 289 | 293  | 294  | 299  | 296 |
| 14        | 1   | 326SB   | 264                 | 274 | 271  | 273  | 278  | 283 |
|           | 2   |         | 268                 | 268 | 273  | 273  | 281  | 283 |
| 15        | 1   | 328SB   | 225                 | 226 | 225  | 227  | 227  | 233 |
|           | 2   |         | 223                 | 221 | 225  | 226  | 230  | 231 |
| 16        | 1   | 28.2    | 186                 | 194 | 195  | 198  | 205  | 216 |
|           | 2   |         | 188                 | 194 | 195  | 199  | 205  | 205 |
| 17        | 1   | 28.4    | 153                 | 162 | 165  | 169  | 176  | 184 |
|           | 2   |         | 158                 | 161 | 166  | 169  | 175  | 177 |
| 18        | 1   | 28.5    | 162                 | 169 | 168  | 170  | 175  | 184 |
|           | 2   |         | 164                 | 164 | 168  | 169  | 175  | 179 |
| 19        | 1   | 28.6    | 160                 | 168 | 171  | 175  | 183  | 192 |
|           | 2   |         | 160                 | 167 | 171  | 174  | 183  | 177 |
| 20        | 1   | 28.7    | 175                 | 181 | 182  | 185  | 190  | 199 |
|           | 2   |         | 175                 | 180 | 182  | 185  | 191  | 192 |

TABLE 36 (Continued)

H07(Sidewinder): Load case 2706 on 18/12/78

| Load (kg) |     |       | 463                 | 919 | 1383 | 1844 | 1386 | 463 |
|-----------|-----|-------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |     |      |      |      |     |
| 21        | 1   | 28.8  | 147                 | 150 | 150  | 152  | 156  | 166 |
|           | 2   |       | 149                 | 148 | 150  | 152  | 155  | 160 |
| 22        | 1   | 28.9  | 97                  | 102 | 103  | 104  | 107  | 110 |
|           | 2   |       | 102                 | 102 | 104  | 105  | 108  | 106 |
| 23        | 1   | 28.10 | 95                  | 100 | 99   | 99   | 102  | 97  |
|           | 2   |       | 102                 | 99  | 100  | 99   | 101  | 102 |
| 24        | 1   | 1.4SB | 210                 | 211 | 210  | 214  | 214  | 218 |
|           | 2   |       | 210                 | 207 | 210  | 213  | 215  | 216 |
| 25        | 1   | 16SB  | 339                 | 341 | 335  | 337  | 338  | 342 |
|           | 2   |       | 337                 | 336 | 335  | 337  | 341  | 337 |
| 26        | 1   | 18PT  | 192                 | 200 | 202  | 204  | 209  | 214 |
|           | 2   |       | 197                 | 197 | 201  | 203  | 207  | 203 |
| 27        | 1   | 27.1  | 149                 | 150 | 149  | 151  | 154  | 158 |
|           | 2   |       | 149                 | 146 | 149  | 150  | 154  | 158 |
| 28        | 1   | 28.1  | 182                 | 187 | 186  | 190  | 193  | 203 |
|           | 2   |       | 184                 | 184 | 187  | 190  | 195  | 199 |

TABLE 37

H07(Sidewinder): Load case 2906 on 25/1/79

| Load (kg) |     |         | 467                 | 919 | 1386 | 1776 | 1386 | 465 |
|-----------|-----|---------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |     |      |      |      |     |
| 5         | 1   | 27.2    | 139                 | 155 | 159  | 162  | 161  | 144 |
|           | 2   |         | 131                 | 149 | 157  | 160  | 159  | 144 |
| 6         | 1   | 27.3    | 107                 | 115 | 116  | 118  | 123  | 123 |
|           | 2   |         | 107                 | 113 | 118  | 118  | 123  | 125 |
| 7         | 1   | 27.4    | 165                 | 169 | 168  | 169  | 167  | 166 |
|           | 2   |         | 161                 | 164 | 167  | 169  | 167  | 172 |
| 8         | 1   | 27.5    | 34                  | 41  | 45   | 47   | 51   | 52  |
|           | 2   |         | 34                  | 41  | 45   | 47   | 51   | 52  |
| 9         | 1   | 1.6SB   | 220                 | 226 | 224  | 224  | 227  | 230 |
|           | 2   |         | 227                 | 222 | 227  | 225  | 228  | 232 |
| 10        | 1   | 2SB     | 173                 | 179 | 177  | 177  | 180  | 185 |
|           | 2   |         | 180                 | 176 | 179  | 178  | 181  | 187 |
| 11        | 1   | 223SB   | 240                 | 246 | 243  | 243  | 248  | 254 |
|           | 2   |         | 246                 | 243 | 245  | 244  | 249  | 258 |
| 12        | 1   | 320SB   | 336                 | 359 | 362  | 364  | 377  | 383 |
|           | 2   |         | 340                 | 351 | 363  | 365  | 377  | 383 |
| 13        | 1   | 323.3SB | 253                 | 260 | 258  | 258  | 263  | 277 |
|           | 2   |         | 263                 | 257 | 261  | 260  | 265  | 282 |
| 14        | 1   | 326SB   | 212                 | 221 | 221  | 223  | 229  | 241 |
|           | 2   |         | 220                 | 217 | 224  | 224  | 230  | 243 |
| 15        | 1   | 328SB   | 212                 | 216 | 212  | 212  | 216  | 219 |
|           | 2   |         | 218                 | 212 | 214  | 213  | 217  | 224 |
| 16        | 1   | 28.2    | 178                 | 183 | 184  | 185  | 190  | 196 |
|           | 2   |         | 180                 | 182 | 185  | 186  | 191  | 200 |
| 17        | 1   | 28.4    | 148                 | 152 | 155  | 158  | 162  | 168 |
|           | 2   |         | 148                 | 151 | 156  | 158  | 162  | 170 |
| 18        | 1   | 28.5    | 141                 | 147 | 146  | 146  | 152  | 157 |
|           | 2   |         | 146                 | 144 | 147  | 147  | 152  | 159 |
| 19        | 1   | 28.6    | 152                 | 159 | 162  | 164  | 168  | 172 |
|           | 2   |         | 156                 | 159 | 163  | 166  | 170  | 183 |
| 20        | 1   | 28.7    | 173                 | 180 | 183  | 184  | 188  | 191 |
|           | 2   |         | 178                 | 180 | 184  | 186  | 190  | 198 |

TABLE 37 (Continued)

H07(Sidewinder): Load case 2906 on 25/1/79

| Load (kg) |     |       | 467                 | 919 | 1386 | 1776 | 1386 | 465 |
|-----------|-----|-------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |     |      |      |      |     |
| 21        | 1   | 28.8  | 139                 | 146 | 145  | 148  | 150  | 155 |
|           | 2   |       | 139                 | 143 | 147  | 149  | 151  | 157 |
| 22        | 1   | 28.9  | 94                  | 100 | 102  | 102  | 105  | 103 |
|           | 2   |       | 94                  | 98  | 102  | 102  | 105  | 101 |
| 23        | 1   | 28.10 | 90                  | 91  | 92   | 92   | 93   | 92  |
|           | 2   |       | 90                  | 90  | 92   | 92   | 93   | 95  |
| 24        | 1   | 1.4SB | 190                 | 197 | 195  | 195  | 199  | 204 |
|           | 2   |       | 197                 | 193 | 197  | 197  | 201  | 211 |
| 25        | 1   | 16SB  | 283                 | 294 | 292  | 291  | 297  | 308 |
|           | 2   |       | 295                 | 289 | 294  | 293  | 299  | 312 |
| 26        | 1   | 18PT  | 195                 | 197 | 199  | 201  | 204  | 211 |
|           | 2   |       | 197                 | 197 | 200  | 204  | 206  | 226 |
| 27        | 1   | 27.1  | 141                 | 144 | 143  | 144  | 146  | 151 |
|           | 2   |       | 146                 | 142 | 144  | 144  | 146  | 153 |
| 28        | 1   | 28.1  | 163                 | 168 | 168  | 168  | 172  | 176 |
|           | 2   |       | 167                 | 165 | 169  | 168  | 172  | 176 |

TABLE 38

H07(Sidewinder): Load case 3506 on 2/12/81

| Load (kg) |     |          | 463                 | 921 | 1386 | 1848 | 1390 | 463 |
|-----------|-----|----------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge    | Microstrain/1000 kg |     |      |      |      |     |
| 4         | 1   | 323.5SB  | 262                 | 269 | 279  | 286  | 293  | 298 |
|           | 2   |          | 253                 | 269 | 277  | 285  | 293  | 294 |
| 5         | 1   | 223SB *  | 244                 | 247 | 252  | 254  | 257  | 257 |
|           | 2   |          | 233                 | 247 | 252  | 254  | 258  | 257 |
| 6         | 1   | 1.6SB *  | 231                 | 231 | 232  | 234  | 234  | 238 |
|           | 2   |          | 225                 | 230 | 232  | 234  | 236  | 233 |
| 7         | 1   | 2SB *    | 179                 | 182 | 186  | 189  | 191  | 190 |
|           | 2   |          | 175                 | 182 | 187  | 189  | 193  | 190 |
| 8         | 1   | 325.1SB  | 363                 | 375 | 383  | 392  | 399  | 402 |
|           | 2   |          | 359                 | 375 | 385  | 392  | 402  | 398 |
| 9         | 1   | 324.3SB  | 318                 | 330 | 343  | 351  | 353  | 339 |
|           | 2   |          | 283                 | 317 | 334  | 344  | 348  | 313 |
| 10        | 1   | 324.1SB  | 316                 | 321 | 329  | 336  | 342  | 348 |
|           | 2   |          | 305                 | 321 | 331  | 336  | 344  | 344 |
| 11        | 1   | 324.4SB  | 296                 | 302 | 307  | 312  | 315  | 318 |
|           | 2   |          | 285                 | 299 | 307  | 311  | 316  | 313 |
| 12        | 1   | 323.3SB* | 253                 | 262 | 268  | 275  | 278  | 279 |
|           | 2   |          | 242                 | 262 | 270  | 275  | 279  | 272 |
| 13        | 1   | 323.1SB* | 199                 | 199 | 200  | 201  | 201  | 205 |
|           | 2   |          | 197                 | 200 | 201  | 201  | 203  | 205 |
| 14        | 1   | 324.4PT  | 307                 | 306 | 309  | 312  | 317  | 320 |
|           | 2   |          | 294                 | 302 | 309  | 313  | 314  | 316 |
| 15        | 1   | 323.5PT  | 279                 | 288 | 296  | 301  | 309  | 318 |
|           | 2   |          | 272                 | 286 | 296  | 302  | 307  | 313 |
| 16        | 1   | 18PT *   | 205                 | 207 | 209  | 212  | 214  | 216 |
|           | 2   |          | 197                 | 205 | 211  | 212  | 214  | 212 |
| 17        | 1   | 325.1PT  | 370                 | 375 | 383  | 390  | 397  | 402 |
|           | 2   |          | 354                 | 369 | 385  | 390  | 393  | 391 |
| 18        | 1   | 324.3PT  | 346                 | 349 | 356  | 365  | 375  | 393 |
|           | 2   |          | 337                 | 346 | 358  | 368  | 375  | 387 |
| 19        | 1   | 324.1PT  | 331                 | 331 | 336  | 341  | 348  | 363 |
|           | 2   |          | 320                 | 327 | 338  | 344  | 347  | 359 |

TABLE 38 (Continued)

H07(Sidewinder): Load case 3506 on 2/12/81

| Load (kg) |     |       |   | 463                 | 921 | 1386 | 1848 | 1390 | 463 |
|-----------|-----|-------|---|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge |   | Microstrain/1000 kg |     |      |      |      |     |
| 20        | 1   | 28.6  | * | 164                 | 174 | 179  | 183  | 190  | 197 |
|           | 2   |       |   | 164                 | 175 | 182  | 184  | 190  | 197 |
| 21        | 1   | 28.7  | * | 175                 | 184 | 188  | 192  | 197  | 199 |
|           | 2   |       |   | 171                 | 184 | 189  | 192  | 197  | 197 |
| 22        | 1   | 27.1  |   | 147                 | 148 | 149  | 151  | 153  | 156 |
|           | 2   |       |   | 145                 | 148 | 150  | 151  | 153  | 151 |
| 23        | 1   | 27.4  | * | 173                 | 171 | 171  | 173  | 175  | 177 |
|           | 2   |       |   | 166                 | 169 | 172  | 174  | 174  | 175 |
| 24        | 1   | 28.1  |   | 173                 | 180 | 186  | 190  | 196  | 203 |
|           | 2   |       |   | 175                 | 182 | 188  | 190  | 197  | 201 |
| 25        | 1   | 28.2  | * | 186                 | 194 | 199  | 202  | 209  | 214 |
|           | 2   |       |   | 184                 | 194 | 201  | 203  | 209  | 214 |
| 26        | 1   | 28.8  | * | 143                 | 148 | 151  | 154  | 158  | 158 |
|           | 2   |       |   | 136                 | 144 | 151  | 154  | 157  | 153 |
| 27        | 1   | 28.4  | * | 153                 | 163 | 170  | 174  | 181  | 186 |
|           | 2   |       |   | 151                 | 164 | 171  | 174  | 181  | 186 |
| 28        | 1   | 1.4SB |   | 177                 | 176 | 178  | 181  | 182  | 184 |
|           | 2   |       |   | 171                 | 176 | 178  | 180  | 183  | 184 |
| 29        | 1   | 16TSB |   | 313                 | 318 | 323  | 326  | 329  | 329 |
|           | 2   |       |   | 305                 | 318 | 324  | 326  | 332  | 329 |

\* Sign reversed.

TABLE 39

H07(Sidewinder): Load case 3606 on 8/7/82

| Load (kg) |     |         | 483                 | 919 | 1382 | 1849 | 1389 | 469 |
|-----------|-----|---------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |     |      |      |      |     |
| 4         | 1   | 323.5SB | 263                 | 293 | 302  | 309  | 318  | 315 |
|           | 2   |         | 271                 | 291 | 300  | 312  | 318  | 328 |
|           | 3   |         | 263                 | 291 | 300  | 308  | 314  | 324 |
| 5         | 1   | 223SB   | 242                 | 257 | 260  | 262  | 266  | 262 |
|           | 2   |         | 247                 | 257 | 260  | 263  | 266  | 277 |
|           | 3   |         | 242                 | 257 | 260  | 262  | 265  | 268 |
| 6         | 1   | 1.6TSB  | 222                 | 232 | 229  | 231  | 232  | 234 |
|           | 2   |         | 224                 | 231 | 229  | 233  | 232  | 243 |
|           | 3   |         | 218                 | 231 | 229  | 231  | 230  | 236 |
| 7         | 1   | 2TSB    | 182                 | 193 | 195  | 195  | 199  | 200 |
|           | 2   |         | 186                 | 193 | 194  | 196  | 199  | 209 |
|           | 3   |         | 182                 | 194 | 194  | 195  | 197  | 202 |
| 8         | 1   | 325.1SB | 377                 | 404 | 408  | 407  | 413  | 396 |
|           | 2   |         | 381                 | 401 | 407  | 408  | 411  | 411 |
|           | 3   |         | 367                 | 401 | 407  | 406  | 408  | 403 |
| 9         | 1   | 324.3SB | 334                 | 365 | 373  | 379  | 386  | 375 |
|           | 2   |         | 340                 | 361 | 371  | 380  | 384  | 390 |
|           | 3   |         | 329                 | 361 | 369  | 376  | 379  | 379 |
| 10        | 1   | 324.1SB | 315                 | 339 | 344  | 350  | 356  | 351 |
|           | 2   |         | 319                 | 339 | 343  | 352  | 356  | 364 |
|           | 3   |         | 315                 | 339 | 343  | 349  | 354  | 360 |
| 11        | 1   | 324.4SB | 292                 | 309 | 312  | 316  | 320  | 320 |
|           | 2   |         | 296                 | 309 | 312  | 319  | 320  | 332 |
|           | 3   |         | 288                 | 311 | 312  | 316  | 318  | 328 |
| 12        | 1   | 323.3SB | 261                 | 283 | 287  | 290  | 295  | 294 |
|           | 2   |         | 271                 | 283 | 287  | 292  | 295  | 305 |
|           | 3   |         | 261                 | 283 | 284  | 289  | 293  | 305 |
| 13        | 1   | 323.1SB | 191                 | 196 | 193  | 194  | 193  | 194 |
|           | 2   |         | 191                 | 196 | 194  | 194  | 193  | 200 |
|           | 3   |         | 189                 | 196 | 194  | 194  | 192  | 196 |
| 14        | 1   | 324.4PT | 294                 | 305 | 313  | 315  | 319  | 315 |
|           | 2   |         | 294                 | 307 | 311  | 315  | 318  | 326 |
|           | 3   |         | 290                 | 309 | 311  | 315  | 318  | 315 |
| 15        | 1   | 323.5PT | 280                 | 296 | 310  | 314  | 321  | 313 |
|           | 2   |         | 276                 | 298 | 308  | 314  | 318  | 322 |
|           | 3   |         | 271                 | 298 | 308  | 314  | 318  | 317 |

TABLE 39 (Continued)

H07(Sidewinder): Load case 3606 on 8/7/82

| Load (kg) |     |         | 483                 | 919 | 1352 | 1849 | 1359 | 469 |
|-----------|-----|---------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |     |      |      |      |     |
| 16        | 1   | 18TPT   | 203                 | 212 | 219  | 220  | 223  | 219 |
|           | 2   |         | 203                 | 214 | 218  | 220  | 222  | 226 |
|           | 3   |         | 201                 | 214 | 218  | 220  | 222  | 219 |
| 17        | 1   | 325.1PT | 365                 | 388 | 402  | 402  | 408  | 390 |
|           | 2   |         | 358                 | 388 | 399  | 402  | 407  | 398 |
|           | 3   |         | 354                 | 388 | 399  | 403  | 405  | 390 |
| 18        | 1   | 324.3PT | 332                 | 355 | 372  | 378  | 387  | 373 |
|           | 2   |         | 332                 | 357 | 370  | 378  | 384  | 388 |
|           | 3   |         | 323                 | 357 | 369  | 378  | 384  | 381 |
| 19        | 1   | 324.1PT | 317                 | 332 | 344  | 349  | 355  | 343 |
|           | 2   |         | 313                 | 335 | 342  | 348  | 352  | 354 |
|           | 3   |         | 307                 | 335 | 342  | 349  | 352  | 349 |
| 20        | 1   | 28.6    | 172                 | 185 | 192  | 194  | 200  | 192 |
|           | 2   |         | 174                 | 187 | 192  | 195  | 199  | 200 |
|           | 3   |         | 170                 | 187 | 192  | 195  | 199  | 198 |
| 21        | 1   | 28.7    | 170                 | 185 | 190  | 193  | 198  | 194 |
|           | 2   |         | 174                 | 185 | 190  | 194  | 197  | 200 |
|           | 3   |         | 168                 | 185 | 189  | 193  | 196  | 196 |
| 22        | 1   | 27.1    | 145                 | 149 | 153  | 154  | 155  | 153 |
|           | 2   |         | 143                 | 149 | 152  | 154  | 155  | 158 |
|           | 3   |         | 141                 | 149 | 152  | 153  | 153  | 153 |
| 23        | 1   | 27.4    | 160                 | 167 | 171  | 173  | 176  | 175 |
|           | 2   |         | 157                 | 168 | 170  | 173  | 175  | 179 |
|           | 3   |         | 157                 | 169 | 170  | 173  | 174  | 175 |
| 24        | 1   | 28.1    | 176                 | 192 | 195  | 196  | 201  | 198 |
|           | 2   |         | 180                 | 192 | 195  | 197  | 200  | 204 |
|           | 3   |         | 176                 | 193 | 195  | 196  | 199  | 202 |
| 25        | 1   | 28.2    | 191                 | 205 | 213  | 214  | 220  | 211 |
|           | 2   |         | 193                 | 207 | 212  | 214  | 219  | 217 |
|           | 3   |         | 189                 | 208 | 212  | 214  | 218  | 215 |
| 26        | 1   | 28.8    | 139                 | 149 | 153  | 155  | 159  | 160 |
|           | 2   |         | 139                 | 149 | 152  | 155  | 159  | 164 |
|           | 3   |         | 135                 | 148 | 152  | 155  | 158  | 160 |
| 27        | 1   | 28.4    | 160                 | 170 | 177  | 178  | 184  | 181 |
|           | 2   |         | 162                 | 170 | 176  | 179  | 184  | 185 |
|           | 3   |         | 153                 | 171 | 176  | 179  | 183  | 185 |

TABLE 39 (Continued)

H07(Sidewinder): Load case 3606 on 8/7/82

| Load (kg) |     |        | 483                 | 919 | 1382 | 1849 | 1389 | 469 |
|-----------|-----|--------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge  | Microstrain/1000 kg |     |      |      |      |     |
| 28        | 1   | 1.4TSB | 172                 | 182 | 182  | 182  | 184  | 187 |
|           | 2   |        | 176                 | 180 | 181  | 183  | 184  | 192 |
|           | 3   |        | 170                 | 182 | 181  | 182  | 184  | 187 |
| 29        | 1   | 27.2   | 155                 | 164 | 171  | 173  | 179  | 175 |
|           | 2   |        | 155                 | 167 | 171  | 175  | 178  | 183 |
|           | 3   |        | 151                 | 167 | 171  | 173  | 178  | 179 |

TABLE 40

H07(Sidewinder): Load case 4106 on 12/12/84

| Load (kg) |     |        | 465                 | 919 | 1383 | 1842 | 1388 | 465 |
|-----------|-----|--------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge  | Microstrain/1000 kg |     |      |      |      |     |
| 7         | 1   | 27.4   | 179                 | 172 | 172  | 173  | 171  | 176 |
| 8         | 1   | 27.1 * | 146                 | 146 | 146  | 151  | 152  | 155 |
| 9         | 1   | 35A    | 77                  | 90  | 98   | 109  | 119  | 125 |
| 10        | 1   | 35B    | 30                  | 39  | 43   | 50   | 54   | 54  |
| 11        | 1   | 35C    | 77                  | 89  | 98   | 104  | 112  | 105 |
| 12        | 1   | 134T   | 0                   | 0   | 0    | 0    | 0    | 0   |
| 13        | 1   | 27     | 0                   | 0   | 0    | 0    | 0    | 0   |
| 14        | 1   | 28.1   | 176                 | 180 | 184  | 188  | 196  | 200 |
| 15        | 1   | 29     | -6                  | -5  | -6   | -7   | -6   | -4  |
| 16        | 1   | 28.7 * | 172                 | 179 | 183  | 188  | 192  | 196 |
| 17        | 1   | 31     | 6                   | 2   | -1   | 0    | 1    | 6   |
| 18        | 1   | 33     | -11                 | -9  | -7   | -9   | -9   | -11 |
| 19        | 1   | 134S   | 0                   | 2   | 1    | 1    | 1    | 0   |
| 20        | 1   | 36A    | 146                 | 158 | 166  | 171  | 179  | 183 |
| 21        | 1   | 36B    | 99                  | 111 | 117  | 123  | 129  | 131 |
| 22        | 1   | TEMP   | 0                   | 0   | 0    | 0    | 0    | 0   |
| 23        | 1   | 4      | -4                  | -3  | -4   | -3   | -3   | -2  |
| 24        | 1   | 5      | 9                   | 7   | 7    | 5    | 5    | 4   |
| 25        | 1   | 6      | 4                   | 4   | 3    | 3    | 2    | 2   |
| 26        | 1   | 7      | 0                   | 0   | 0    | 0    | 0    | 0   |
| 27        | 1   | 11     | -6                  | -5  | -5   | -4   | -2   | 0   |
| 28        | 1   | 12     | 0                   | 0   | 0    | 0    | 0    | -2  |
| 29        | 1   | 13     | 6                   | 7   | 5    | 4    | 4    | 4   |
| 30        | 1   | 20 *   | 11                  | 11  | 12   | 11   | 12   | 13  |

TABLE 40 (Continued)

H07(Sidewinder): Load case 4106 on 12/12/84

| Load (kg) |     |         | 465                 | 919 | 1353 | 1842 | 1358 | 465 |
|-----------|-----|---------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |     |      |      |      |     |
| 31        | 1   | 21      | 13                  | 12  | 12   | 11   | 12   | 17  |
| 32        | 1   | 24 *    | 13                  | 13  | 14   | 15   | 16   | 17  |
| 33        | 1   | 25 *    | 15                  | 15  | 14   | 16   | 17   | 19  |
| 34        | 1   | 21T     | 0                   | 0   | 0    | 0    | 0    | 0   |
| 35        | 1   | 37      | 202                 | 212 | 220  | 230  | 239  | 250 |
| 36        | 1   | 14      | 0                   | 0   | 0    | 0    | 0    | 2   |
| 37        | 1   | 38      | 232                 | 242 | 247  | 256  | 263  | 262 |
| 38        | 1   | 18A     | -4                  | -2  | -1   | -1   | 0    | 0   |
| 39        | 1   | 39      | 239                 | 249 | 255  | 261  | 269  | 273 |
| 40        | 1   | 22A     | 0                   | 0   | 0    | 0    | 0    | 0   |
| 41        | 1   | 40      | 174                 | 184 | 191  | 199  | 204  | 204 |
| 42        | 1   | 21C     | -6                  | -5  | -5   | -5   | -6   | -6  |
| 43        | 1   | 16      | 0                   | -1  | -1   | -1   | -1   | 2   |
| 44        | 1   | 324.3SB | 348                 | 353 | 361  | 374  | 387  | 400 |
| 45        | 1   | 324.3PT | 348                 | 357 | 367  | 377  | 384  | 387 |
| 46        | 1   | 43      | 0                   | -1  | 0    | -1   | -1   | -2  |
| 47        | 1   | 44      | 0                   | 0   | 0    | 0    | 0    | 0   |

\* Sign reversed.

NO-A165 046

MIRAGE A3-002 STRAIN RESPONSES TO GROUND CALIBRATION  
LOADINGS BETWEEN 1978 AND 1985(U) AERONAUTICAL RESEARCH  
LABS MELBOURNE (AUSTRALIA) H G HIGGS DEC 85  
ARL-STRUC-TM-425

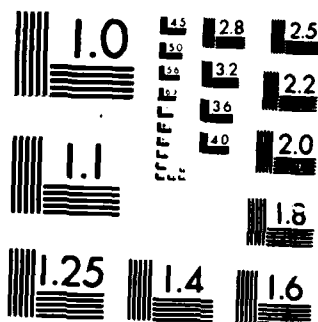
2/2

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TABLE 41

H07(Sidewinder): Load case 4206 on 13/2/85

| Load (kg) |     |       | 460                 | 934 | 1377 | 1848 | 1381 | 474 |
|-----------|-----|-------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |     |      |      |      |     |
| 7         | 1   | 27.4  | 180                 | 172 | 173  | 176  | 178  | 173 |
|           | 2   |       | 172                 | 177 | 177  | 176  | 176  | 173 |
| 8         | 1   | 27.1  | *                   | 152 | 148  | 151  | 153  | 155 |
|           | 2   |       |                     | 137 | 150  | 151  | 150  | 152 |
| 9         | 1   | 35A   | 63                  | 70  | 89   | 96   | 104  | 112 |
|           | 2   |       | 52                  | 70  | 84   | 95   | 100  | 93  |
| 10        | 1   | 35B   | 15                  | 21  | 35   | 39   | 43   | 40  |
|           | 2   |       | 11                  | 24  | 32   | 38   | 41   | 32  |
| 11        | 1   | 35C   | 56                  | 64  | 79   | 89   | 91   | 86  |
|           | 2   |       | 48                  | 67  | 79   | 88   | 89   | 76  |
| 12        | 1   | 134T  | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
| 13        | 1   | 27    | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
| 14        | 1   | 28.1  | 180                 | 177 | 184  | 189  | 198  | 200 |
|           | 2   |       | 169                 | 184 | 187  | 189  | 195  | 205 |
| 15        | 1   | 29    | 0                   | -3  | -4   | -4   | -4   | 0   |
|           | 2   |       | 0                   | -3  | -4   | -4   | -5   | 0   |
| 16        | 1   | 28.7  | *                   | 185 | 178  | 184  | 188  | 193 |
|           | 2   |       |                     | 174 | 181  | 185  | 188  | 192 |
| 17        | 1   | 31    | -11                 | -2  | 0    | -1   | 0    | -6  |
|           | 2   |       | -7                  | -2  | -1   | -3   | -1   | -4  |
| 18        | 1   | 33    | -7                  | -9  | -9   | -8   | -9   | -6  |
|           | 2   |       | -11                 | -9  | -9   | -8   | -9   | -11 |
| 19        | 1   | 134S  | -4                  | -2  | -1   | -1   | -2   | -4  |
|           | 2   |       | -4                  | -2  | -1   | 0    | -1   | -4  |
| 20        | 1   | 36A   | 137                 | 137 | 152  | 160  | 165  | 179 |
|           | 2   |       | 137                 | 142 | 152  | 159  | 163  | 165 |
| 21        | 1   | 36B   | 78                  | 86  | 102  | 109  | 112  | 112 |
|           | 2   |       | 74                  | 88  | 100  | 109  | 110  | 101 |
| 22        | 1   | TEMP  | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0   | 0    | 0    | 0    | 0   |

TABLE 41 (Continued)

H07(Sidewinder): Load case 4206 on 13/2/85

| Load (kg) |     |       | 460                 | 934 | 1377 | 1848 | 1381 | 474 |
|-----------|-----|-------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |     |      |      |      |     |
| 23        | 1   | 4     | -7                  | -4  | -4   | -3   | -3   | -4  |
|           | 2   |       | -7                  | -3  | -3   | -3   | -3   | -4  |
| 24        | 1   | 5     | 4                   | 6   | 7    | 6    | 7    | 6   |
|           | 2   |       | 4                   | 6   | 7    | 7    | 7    | 6   |
| 25        | 1   | 6     | -2                  | 2   | 2    | 3    | 2    | -2  |
|           | 2   |       | -2                  | 2   | 3    | 3    | 3    | -2  |
| 26        | 1   | 7     | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
| 27        | 1   | 11    | *                   | 22  | 16   | 13   | 12   | 13  |
|           | 2   |       |                     | 22  | 16   | 14   | 12   | 13  |
| 28        | 1   | 12    |                     | -41 | -18  | -12  | -7   | -10 |
|           | 2   |       |                     | -41 | -17  | -10  | -6   | -9  |
| 29        | 1   | 13    |                     | -4  | 3    | 6    | 8    | 7   |
|           | 2   |       |                     | 0   | 6    | 7    | 9    | 9   |
| 30        | 1   | 20    | *                   | 13  | 11   | 10   | 10   | 10  |
|           | 2   |       |                     | 13  | 12   | 10   | 11   | 10  |
| 31        | 1   | 21    |                     | 4   | 6    | 8    | 9    | 8   |
|           | 2   |       |                     | 0   | 6    | 7    | 7    | 7   |
| 32        | 1   | 24    | *                   | 22  | 16   | 17   | 17   | 18  |
|           | 2   |       |                     | 22  | 18   | 17   | 17   | 19  |
| 33        | 1   | 25    | *                   | 22  | 19   | 19   | 18   | 20  |
|           | 2   |       |                     | 26  | 21   | 20   | 19   | 21  |
| 34        | 1   | 21T   |                     | 0   | 0    | 0    | 0    | 0   |
|           | 2   |       |                     | 0   | 0    | 0    | 0    | 0   |
| 35        | 1   | 37    |                     | 209 | 203  | 218  | 226  | 235 |
|           | 2   |       |                     | 198 | 213  | 219  | 225  | 234 |
| 36        | 1   | 14    |                     | -2  | -1   | -1   | -1   | 0   |
|           | 2   |       |                     | 2   | 1    | 1    | 1    | 1   |
| 37        | 1   | 38    |                     | 235 | 232  | 245  | 252  | 259 |
|           | 2   |       |                     | 224 | 240  | 246  | 250  | 256 |
| 38        | 1   | 18A   |                     | -7  | -3   | -1   | -1   | -1  |
|           | 2   |       |                     | -7  | -2   | -1   | -1   | -1  |

TABLE 41 (Continued)

H07(Sidewinder): Load case 4206 on 13/2/55

| Load (kg) |     |         | 460                 | 934 | 1377 | 1848 | 1381 | 474 |
|-----------|-----|---------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |     |      |      |      |     |
| 39        | 1   | 39      | 245                 | 238 | 250  | 256  | 265  | 272 |
|           | 2   |         | 230                 | 247 | 251  | 255  | 263  | 272 |
| 40        | 1   | 22A     | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |         | 0                   | 0   | 0    | 0    | 0    | 0   |
| 41        | 1   | 40      | 180                 | 177 | 187  | 195  | 202  | 207 |
|           | 2   |         | 176                 | 182 | 189  | 195  | 201  | 211 |
| 42        | 1   | 21C     | -2                  | -4  | -5   | -5   | -5   | -2  |
|           | 2   |         | -2                  | -3  | -4   | -4   | -4   | -2  |
| 43        | 1   | 16      | -2                  | -1  | -1   | -1   | -1   | -2  |
|           | 2   |         | 0                   | -1  | -1   | -1   | -1   | 0   |
| 44        | 1   | 324.3SB | 345                 | 344 | 365  | 373  | 389  | 378 |
|           | 2   |         | 324                 | 357 | 365  | 369  | 382  | 378 |
| 45        | 1   | 324.3PT | 376                 | 347 | 358  | 372  | 383  | 395 |
|           | 2   |         | 343                 | 351 | 363  | 374  | 383  | 395 |
| 46        | 1   | 43      | -2                  | -1  | -1   | -1   | -1   | -2  |
|           | 2   |         | -2                  | -1  | -1   | -1   | 0    | 0   |
| 47        | 1   | 44      | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |         | 0                   | 0   | 0    | 0    | 0    | 0   |

\* Sign reversed.

TABLE 42

H07(Sidewinder): Load case 4306 on 28/3/85

| Load (kg) |     |       | 467                 | 934 | 1395 | 1844 | 1395 | 465 |
|-----------|-----|-------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |     |      |      |      |     |
| 7         | 1   | 27.4  | 169                 | 169 | 170  | 174  | 174  | 179 |
|           | 2   |       | 169                 | 173 | 173  | 175  | 175  | 179 |
|           | 3   |       | 182                 | 172 | 175  | 174  | 175  | 183 |
| 8         | 1   | 27.1  | *                   | 139 | 141  | 146  | 150  | 153 |
|           | 2   |       |                     | 141 | 147  | 147  | 150  | 155 |
|           | 3   |       |                     | 152 | 147  | 148  | 149  | 157 |
| 9         | 1   | 35A   | 79                  | 94  | 101  | 111  | 118  | 127 |
|           | 2   |       | 83                  | 96  | 103  | 111  | 120  | 127 |
|           | 3   |       | 83                  | 96  | 103  | 110  | 118  | 125 |
| 10        | 1   | 35B   | 32                  | 40  | 47   | 52   | 56   | 54  |
|           | 2   |       | 32                  | 42  | 47   | 50   | 56   | 54  |
|           | 3   |       | 32                  | 40  | 47   | 50   | 54   | 52  |
| 11        | 1   | 35C   | 92                  | 104 | 110  | 117  | 125  | 129 |
|           | 2   |       | 88                  | 104 | 110  | 117  | 125  | 125 |
|           | 3   |       | 88                  | 102 | 110  | 116  | 122  | 120 |
| 12        | 1   | 134T  | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 3   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
| 13        | 1   | 27    | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 3   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
| 14        | 1   | 28.1  | 165                 | 171 | 177  | 183  | 186  | 187 |
|           | 2   |       | 167                 | 177 | 179  | 183  | 188  | 189 |
|           | 3   |       | 176                 | 174 | 181  | 182  | 188  | 187 |
| 15        | 1   | 29    | -4                  | -5  | -5   | -5   | -5   | 4   |
|           | 2   |       | 4                   | -2  | -2   | -3   | -1   | 11  |
|           | 3   |       | 11                  | 3   | 0    | -1   | 1    | 17  |
| 16        | 1   | 28.7  | *                   | 169 | 178  | 181  | 187  | 196 |
|           | 2   |       |                     | 169 | 179  | 183  | 186  | 191 |
|           | 3   |       |                     | 171 | 176  | 181  | 184  | 183 |
| 17        | 1   | 31    | -4                  | -3  | -1   | -1   | -2   | -4  |
|           | 2   |       | 4                   | -2  | -1   | -1   | -1   | 0   |
|           | 3   |       | 4                   | 0   | 0    | 0    | 0    | 4   |
| 18        | 1   | 33    | *                   | -15 | -11  | -12  | -12  | -17 |
|           | 2   |       |                     | -17 | -13  | -12  | -12  | -17 |
|           | 3   |       |                     | -17 | -14  | -13  | -12  | -17 |

TABLE 42 (Continued)

H07(Sidewinder): Load case 4306 on 28/3/85

| Load (kg) |     |       | 467                 | 934 | 1395 | 1844 | 1395 | 465 |
|-----------|-----|-------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |     |      |      |      |     |
| 19        | 1   | 134S  | 4                   | 2   | 0    | 0    | 1    | 0   |
|           | 2   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 3   |       | -4                  | 0   | 0    | 0    | 0    | 0   |
| 20        | 1   | 36A   | 154                 | 164 | 170  | 175  | 183  | 191 |
|           | 2   |       | 154                 | 169 | 172  | 176  | 183  | 191 |
|           | 3   |       | 161                 | 168 | 174  | 175  | 183  | 191 |
| 21        | 1   | 36B   | 105                 | 117 | 121  | 126  | 132  | 131 |
|           | 2   |       | 103                 | 119 | 123  | 127  | 132  | 131 |
|           | 3   |       | 105                 | 117 | 123  | 125  | 131  | 129 |
| 22        | 1   | TEMP  | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 3   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
| 23        | 1   | 4     | -2                  | -2  | -3   | -3   | -3   | 2   |
|           | 2   |       | 2                   | 0   | -1   | -2   | -1   | 4   |
|           | 3   |       | 6                   | 1   | 0    | -1   | 0    | 9   |
| 24        | 1   | 5     | 9                   | 5   | 4    | 4    | 3    | 2   |
|           | 2   |       | 6                   | 5   | 4    | 3    | 3    | 2   |
|           | 3   |       | 4                   | 3   | 4    | 3    | 2    | 2   |
| 25        | 1   | 6     | 4                   | 3   | 2    | 2    | 1    | 2   |
|           | 2   |       | 6                   | 3   | 3    | 2    | 1    | 2   |
|           | 3   |       | 6                   | 3   | 3    | 2    | 1    | 4   |
| 26        | 1   | 7     | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 3   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
| 27        | 1   | 11    | -9                  | -6  | -5   | -4   | -3   | -2  |
|           | 2   |       | -6                  | -5  | -4   | -3   | -2   | 0   |
|           | 3   |       | -4                  | -3  | -4   | -3   | -1   | 2   |
| 28        | 1   | 12    | 4                   | 3   | 2    | 2    | 1    | -2  |
|           | 2   |       | 0                   | 0   | 1    | 0    | -1   | -6  |
|           | 3   |       | -4                  | -2  | -1   | -1   | -2   | -11 |
| 29        | 1   | 13    | 11                  | 9   | 6    | 5    | 4    | 4   |
|           | 2   |       | 11                  | 7   | 6    | 5    | 4    | 4   |
|           | 3   |       | 11                  | 6   | 6    | 5    | 4    | 4   |
| 30        | 1   | 20    | *                   | 11  | 12   | 11   | 12   | 17  |
|           | 2   |       |                     | 17  | 15   | 14   | 14   | 24  |
|           | 3   |       |                     | 21  | 15   | 15   | 15   | 28  |

TABLE 42 (Continued)

H07(Sidewinder): Load case 4306 on 28/3/85

| Load (kg) |     |       | 467                 | 934 | 1395 | 1844 | 1395 | 465 |
|-----------|-----|-------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge | Microstrain/1000 kg |     |      |      |      |     |
| 31        | 1   | 21    | 11                  | 11  | 10   | 11   | 11   | 11  |
|           | 2   |       | 11                  | 9   | 10   | 10   | 10   | 6   |
|           | 3   |       | 6                   | 6   | 9    | 9    | 9    | 4   |
| 32        | 1   | 24 *  | 13                  | 14  | 15   | 15   | 16   | 15  |
|           | 2   |       | 11                  | 13  | 14   | 15   | 15   | 13  |
|           | 3   |       | 9                   | 13  | 14   | 15   | 15   | 13  |
| 33        | 1   | 25 *  | 13                  | 15  | 15   | 16   | 16   | 17  |
|           | 2   |       | 15                  | 15  | 16   | 16   | 16   | 17  |
|           | 3   |       | 17                  | 15  | 16   | 16   | 16   | 17  |
| 34        | 1   | 21T   | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 3   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
| 35        | 1   | 37    | 199                 | 213 | 222  | 232  | 239  | 243 |
|           | 2   |       | 199                 | 216 | 224  | 230  | 239  | 243 |
|           | 3   |       | 205                 | 214 | 224  | 229  | 237  | 234 |
| 36        | 1   | 14    | 0                   | -1  | -1   | -1   | -1   | 0   |
|           | 2   |       | 2                   | 1   | 1    | 1    | 1    | 2   |
|           | 3   |       | 4                   | 2   | 1    | 1    | 1    | 4   |
| 37        | 1   | 38    | 225                 | 238 | 245  | 253  | 257  | 252 |
|           | 2   |       | 220                 | 241 | 245  | 252  | 257  | 252 |
|           | 3   |       | 229                 | 238 | 247  | 250  | 254  | 245 |
| 38        | 1   | 18A   | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 3   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
| 39        | 1   | 39    | 231                 | 242 | 250  | 257  | 262  | 262 |
|           | 2   |       | 227                 | 247 | 252  | 257  | 262  | 258 |
|           | 3   |       | 233                 | 243 | 252  | 255  | 260  | 254 |
| 40        | 1   | 22A   | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 3   |       | 0                   | 0   | 0    | 0    | 0    | 0   |
| 41        | 1   | 40    | 169                 | 182 | 190  | 198  | 201  | 196 |
|           | 2   |       | 165                 | 184 | 190  | 197  | 201  | 196 |
|           | 3   |       | 169                 | 181 | 190  | 195  | 199  | 189 |
| 42        | 1   | 21C   | -6                  | -4  | -5   | -5   | -5   | -6  |
|           | 2   |       | -2                  | -4  | -5   | -4   | -5   | -2  |
|           | 3   |       | 0                   | -3  | -4   | -4   | -4   | 0   |

TABLE 42 (Continued)

H07(Sidewinder): Load case 4306 on 28/3/85

| Load (kg) |     |         | 467                 | 934 | 1395 | 1844 | 1395 | 465 |
|-----------|-----|---------|---------------------|-----|------|------|------|-----|
| Ch        | Run | Gauge   | Microstrain/1000 kg |     |      |      |      |     |
| 43        | 1   | 16      | 0                   | 0   | -1   | -1   | 0    | 2   |
|           | 2   |         | 4                   | 2   | 1    | 1    | 1    | 4   |
|           | 3   |         | 9                   | 4   | 3    | 2    | 3    | 11  |
| 44        | 1   | 324.3SB | 319                 | 333 | 351  | 367  | 373  | 379 |
|           | 2   |         | 325                 | 344 | 353  | 364  | 376  | 379 |
|           | 3   |         | 340                 | 344 | 356  | 363  | 373  | 370 |
| 45        | 1   | 324.3PT | 338                 | 342 | 348  | 361  | 374  | 387 |
|           | 2   |         | 323                 | 347 | 353  | 365  | 371  | 387 |
|           | 3   |         | 347                 | 339 | 353  | 359  | 369  | 379 |
| 46        | 1   | 43      | 0                   | 0   | 0    | -1   | -1   | -2  |
|           | 2   |         | -2                  | -1  | -1   | -1   | -1   | -2  |
|           | 3   |         | -4                  | -2  | -1   | -1   | -1   | -4  |
| 47        | 1   | 44      | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 2   |         | 0                   | 0   | 0    | 0    | 0    | 0   |
|           | 3   |         | 0                   | 0   | 0    | 0    | 0    | 0   |

\* Sign reversed.

TABLE 33

H05 Load cases summary  
(100% m.c.l. - standardized to 2000 kg)

| Load case | 26035       |      |     | 2803 | 3403 |      |     | 3603 | 4203 |     |      |
|-----------|-------------|------|-----|------|------|------|-----|------|------|-----|------|
| Gauge     | 26033       | 2703 |     |      | 2903 | 3503 |     |      | 4103 |     | 4303 |
|           | Microstrain |      |     |      |      |      |     |      |      |     |      |
| 27.1      | 184         | 182  | 186 | 187  | 182  | 179  | 188 | 192  | 187  | 191 | 184  |
| 27.2      | 205         | 204  | 201 | 197  | 201  | 0    | 0   | 210  | 0    | 0   | 0    |
| 27.3      | 162         | 159  | 161 | 160  | 159  | 0    | 0   | 0    | 0    | 0   | 0    |
| 27.4      | 209         | 207  | 210 | 210  | 209  | 198  | 204 | 206  | 205  | 210 | 200  |
| 27.5      | 42          | 41   | 39  | 41   | 38   | 0    | 0   | 0    | 0    | 0   | 0    |
| 28.1      | 211         | 211  | 219 | 216  | 205  | 213  | 219 | 227  | 217  | 219 | 219  |
| 28.2      | 236         | 236  | 236 | 235  | 229  | 234  | 240 | 250  | 0    | 0   | 0    |
| 28.4      | 200         | 192  | 200 | 199  | 197  | 197  | 207 | 205  | 0    | 0   | 0    |
| 28.5      | 197         | 197  | 206 | 204  | 190  | 0    | 0   | 0    | 0    | 0   | 0    |
| 28.6      | 218         | 217  | 215 | 214  | 210  | 211  | 224 | 237  | 0    | 0   | 0    |
| 28.7      | 247         | 247  | 251 | 251  | 256  | 258  | 261 | 263  | 259  | 259 | 258  |
| 28.8      | 200         | 200  | 209 | 207  | 206  | 209  | 211 | 217  | 0    | 0   | 0    |
| 28.9      | 121         | 126  | 120 | 120  | 123  | 0    | 0   | 0    | 0    | 0   | 0    |
| 28.10     | 108         | 115  | 116 | 117  | 108  | 0    | 0   | 0    | 0    | 0   | 0    |
| 16        | 422         | 422  | 432 | 430  | 388  | 407  | 418 | 0    | 0    | 0   | 0    |
| 323.3     | 369         | 369  | 375 | 374  | 355  | 340  | 344 | 357  | 0    | 0   | 0    |
| 223       | 333         | 332  | 339 | 336  | 321  | 327  | 329 | 335  | 0    | 0   | 0    |
| 1.6       | 323         | 324  | 326 | 326  | 315  | 323  | 327 | 325  | 0    | 0   | 0    |
| 1.4       | 273         | 273  | 279 | 278  | 256  | 230  | 232 | 232  | 0    | 0   | 0    |
| 18        | 281         | 280  | 272 | 270  | 267  | 274  | 286 | 287  | 0    | 0   | 0    |
| 328       | 289         | 287  | 292 | 292  | 279  | 0    | 0   | 0    | 0    | 0   | 0    |
| 2         | 253         | 252  | 256 | 255  | 242  | 252  | 252 | 257  | 0    | 0   | 0    |
| 326       | 289         | 285  | 299 | 296  | 263  | 0    | 0   | 0    | 0    | 0   | 0    |
| 320       | 293         | 290  | 297 | 293  | 251  | 0    | 0   | 0    | 0    | 0   | 0    |

TABLE 44

H07 Load cases summary  
(100% m.c.l. - standardized to 2000 kg)

| Load<br>case | 26061       | 26064 | 2706 | 2906 | 3506 | 3606 | 4106 | 4206 | 4306 |
|--------------|-------------|-------|------|------|------|------|------|------|------|
| Gauge        | Microstrain |       |      |      |      |      |      |      |      |
| 27.1         | 295         | 296   | 302  | 287  | 303  | 307  | 302  | 303  | 299  |
| 27.2         | 343         | 339   | 335  | 322  | 0    | 345  | 0    | 0    | 0    |
| 27.3         | 244         | 244   | 245  | 235  | 0    | 0    | 0    | 0    | 0    |
| 27.4         | 348         | 347   | 347  | 338  | 347  | 346  | 346  | 353  | 348  |
| 27.5         | 102         | 105   | 103  | 95   | 0    | 0    | 0    | 0    | 0    |
| 28.1         | 362         | 366   | 380  | 337  | 381  | 393  | 377  | 379  | 366  |
| 28.2         | 399         | 399   | 398  | 372  | 405  | 428  | 0    | 0    | 0    |
| 28.4         | 333         | 331   | 337  | 316  | 348  | 358  | 0    | 0    | 0    |
| 28.5         | 319         | 324   | 340  | 293  | 0    | 0    | 0    | 0    | 0    |
| 28.6         | 355         | 356   | 349  | 329  | 367  | 389  | 0    | 0    | 0    |
| 28.7         | 359         | 363   | 371  | 370  | 383  | 387  | 377  | 375  | 373  |
| 28.8         | 290         | 289   | 304  | 296  | 307  | 310  | 0    | 0    | 0    |
| 28.9         | 209         | 209   | 208  | 204  | 0    | 0    | 0    | 0    | 0    |
| 28.10        | 187         | 189   | 198  | 184  | 0    | 0    | 0    | 0    | 0    |
| 16           | 654         | 662   | 674  | 585  | 652  | 0    | 0    | 0    | 0    |
| 323.3        | 571         | 578   | 590  | 518  | 550  | 581  | 0    | 0    | 0    |
| 223          | 513         | 521   | 527  | 487  | 509  | 526  | 0    | 0    | 0    |
| 1.6          | 444         | 451   | 456  | 448  | 469  | 464  | 0    | 0    | 0    |
| 1.4          | 413         | 419   | 426  | 391  | 360  | 365  | 0    | 0    | 0    |
| 18           | 422         | 421   | 407  | 405  | 424  | 439  | 0    | 0    | 0    |
| 328          | 441         | 447   | 453  | 425  | 0    | 0    | 0    | 0    | 0    |
| 2            | 375         | 381   | 386  | 355  | 378  | 391  | 0    | 0    | 0    |
| 326          | 523         | 532   | 547  | 447  | 0    | 0    | 0    | 0    | 0    |
| 320          | 798         | 810   | 805  | 730  | 0    | 0    | 0    | 0    | 0    |

TABLE 45

Means and standard deviations of strains  
for 2000 kg load: 1978 calibrations  
compared with 29XX series

| Gauge          | H05 load |            |      | H07 load |            |      |
|----------------|----------|------------|------|----------|------------|------|
|                | 2903     | 1978 (n=4) |      | 2906     | 1978 (n=3) |      |
|                |          | Mean       | s.d. |          | Mean       | s.d. |
| Frame 26 upper |          |            |      |          |            |      |
| 27.1           | 182      | 185        | 2.2  | 287      | 298        | 3.8  |
| 27.2           | 201      | 202        | 3.6  | 322      | 339        | 4.0  |
| 27.3           | 159      | 161        | 1.3  | 235      | 245        | 2.3  |
| 27.4           | 209      | 209        | 1.4  | 338      | 347        | 0.6  |
| 27.5           | 38       | 41         | 1.3  | 95       | 103        | 1.5  |
| Frame 26 lower |          |            |      |          |            |      |
| 28.1           | 205      | 214        | 4.0  | 337      | 369        | 9.5  |
| 28.2           | 229      | 236        | 0.5  | 372      | 399        | 0.6  |
| 28.4           | 197      | 198        | 3.9  | 316      | 334        | 3.1  |
| 28.5           | 190      | 201        | 4.7  | 293      | 328        | 11.0 |
| 28.6           | 210      | 216        | 1.8  | 329      | 353        | 3.8  |
| 28.7           | 256      | 249        | 2.3  | 370      | 364        | 6.1  |
| 28.8           | 206      | 204        | 4.7  | 296      | 294        | 8.4  |
| 28.9           | 123      | 122        | 2.9  | 204      | 209        | 0.6  |
| 28.10          | 108      | 114        | 4.0  | 184      | 191        | 5.9  |
| Wing main spar |          |            |      |          |            |      |
| 16             | 388      | 427        | 5.3  | 585      | 674        | 10.1 |
| 323.3          | 355      | 372        | 3.2  | 518      | 580        | 9.6  |
| 223            | 321      | 335        | 3.2  | 487      | 520        | 7.0  |
| 1.6            | 315      | 325        | 1.5  | 448      | 450        | 6.0  |
| 1.4            | 256      | 276        | 3.2* | 391      | 419        | 6.5* |
| 18             | 267      | 276        | 5.6  | 405      | 417        | 8.4  |
| 328            | 279      | 290        | 2.5  | 425      | 447        | 6.0  |
| 2              | 242      | 255        | 1.8  | 355      | 381        | 5.5  |
| Wing panel     |          |            |      |          |            |      |
| 326            | 263      | 292        | 6.4  | 447      | 534        | 12.0 |
| 320            | 251      | 293        | 2.9  | 730      | 804        | 6.0  |

\* Truncated from 1978-85 to 1978 as strain response post-1978 significantly lower.

TABLE 46

Means and standard deviations of strains  
for 2000 kg load: 1978-85 calibrations

| Gauge          | H05 load |      |    | H07 load |      |    |
|----------------|----------|------|----|----------|------|----|
|                | Mean     | s.d. | n  | Mean     | s.d. | n  |
| Frame 26 upper |          |      |    |          |      |    |
| 27.1           | 186      | 3.9  | 10 | 301      | 4.0  | 8  |
| 27.2           | 203      | 4.8  | 5  | 341      | 5.6  | 4  |
| 27.3           | 161      | 1.3  | 4  | 245      | 2.3  | 3  |
| 27.4           | 206      | 4.3  | 10 | 348      | 2.3  | 8  |
| 27.5           | 41       | 1.3  | 4  | 103      | 1.5  | 3  |
| Frame 26 lower |          |      |    |          |      |    |
| 28.1           | 217      | 4.8  | 10 | 376      | 10.2 | 8  |
| 28.2           | 238      | 5.6  | 7  | 406      | 12.7 | 5  |
| 28.4           | 200      | 5.0  | 7  | 341      | 11.4 | 5  |
| 28.5           | 201      | 4.7  | 4  | 328      | 11.0 | 3  |
| 28.6           | 219      | 8.7  | 7  | 363      | 15.8 | 5  |
| 28.7           | 255      | 5.9  | 10 | 374      | 9.4  | 8  |
| 28.8           | 208      | 6.1  | 7  | 300      | 9.8  | 5  |
| 28.9           | 122      | 2.9  | 4  | 209      | 0.6  | 3  |
| 28.10          | 114      | 4.1  | 4  | 191      | 5.9  | 3  |
| Wing main spar |          |      |    |          |      |    |
| 16             | 422      | 9.2  | 6  | 661      | 10.0 | 4  |
| 323.3          | 361      | 14.0 | 7  | 574      | 15.1 | 5  |
| 223            | 333      | 4.1  | 7  | 519      | 8.0  | 5  |
| 1.6            | 325      | 1.6  | 7  | 457      | 10.0 | 5  |
| 1.4            | 276      | 3.2  | 4* | 419      | 6.5  | 3* |
| 18             | 279      | 6.7  | 7  | 423      | 11.4 | 5  |
| 328            | 290      | 2.5  | 4  | 447      | 6.0  | 3  |
| 2              | 254      | 2.1  | 7  | 382      | 6.4  | 5  |
| Wing panel     |          |      |    |          |      |    |
| 326            | 292      | 6.4  | 4  | 534      | 12.1 | 3  |
| 320            | 293      | 2.9  | 4  | 804      | 6.0  | 3  |

\* Truncated from 1978-85 to 1978 as strain  
response post-1978 significantly lower.

TABLE 17

Averaged standard deviations of strains  
for 2000 kg load (by structural area)

| Strain<br>gauge<br>location | No. of<br>strain<br>gauges | 1975<br>calibration |     | No. of<br>strain<br>gauges | 1978-85<br>calibration |      |
|-----------------------------|----------------------------|---------------------|-----|----------------------------|------------------------|------|
|                             |                            | H05                 | H07 |                            | H05                    | H07  |
| Frame 26 upper              | 5                          | 2.0                 | 3.4 | 3                          | 4.3                    | 3.9  |
| Frame 26 lower              | 9                          | 3.2                 | 5.4 | 6                          | 6.1                    | 11.5 |
| Wing main spar              | 8                          | 3.3                 | 7.4 | 6                          | 7.6                    | 10.5 |
| Wing panel                  | 2                          | 4.6                 | 9.1 | -                          | -                      | -    |
| All                         | 24                         | 3.2                 | 6.1 | 15                         | 6.2                    | 10.0 |

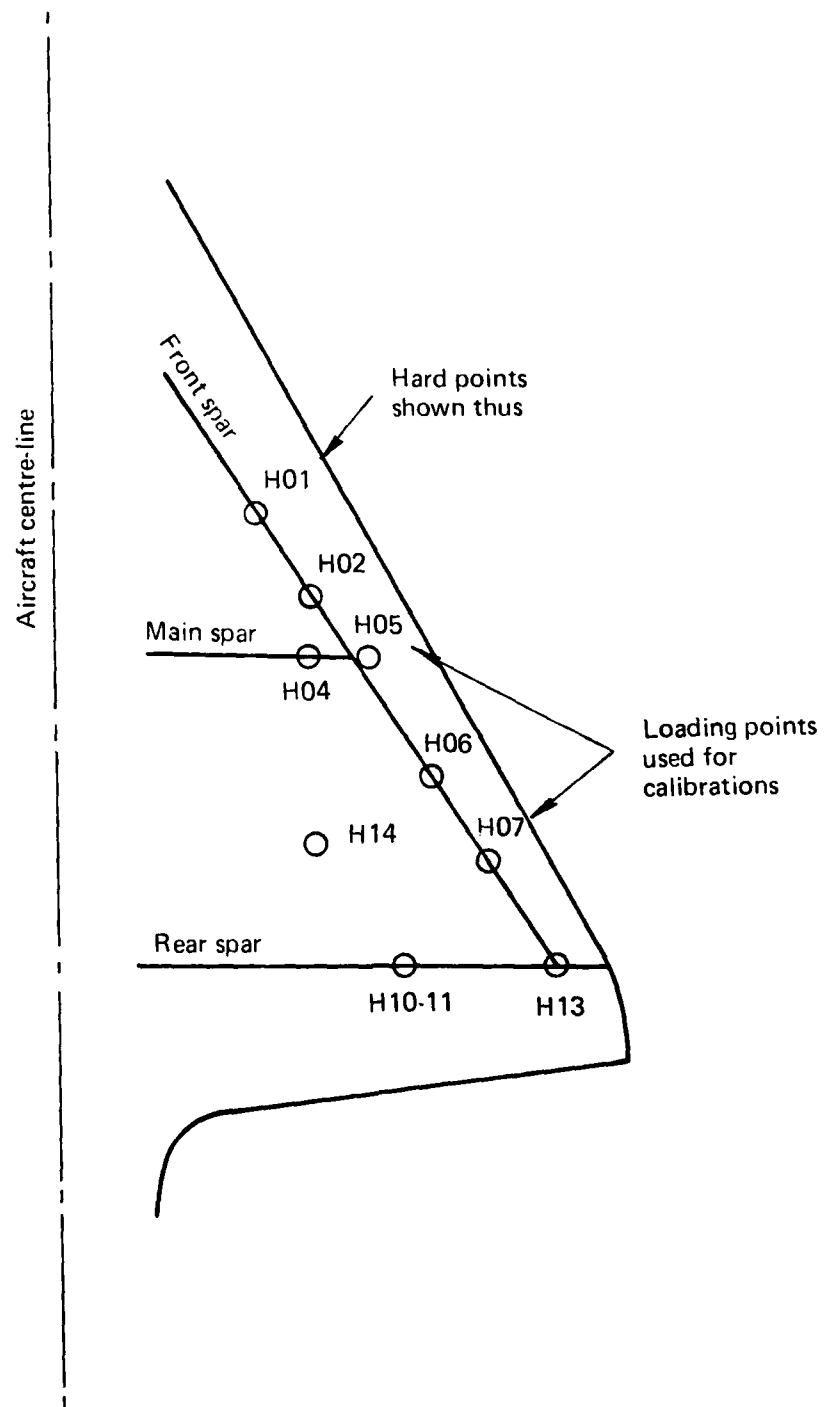


FIG. 1. LOADING POINTS

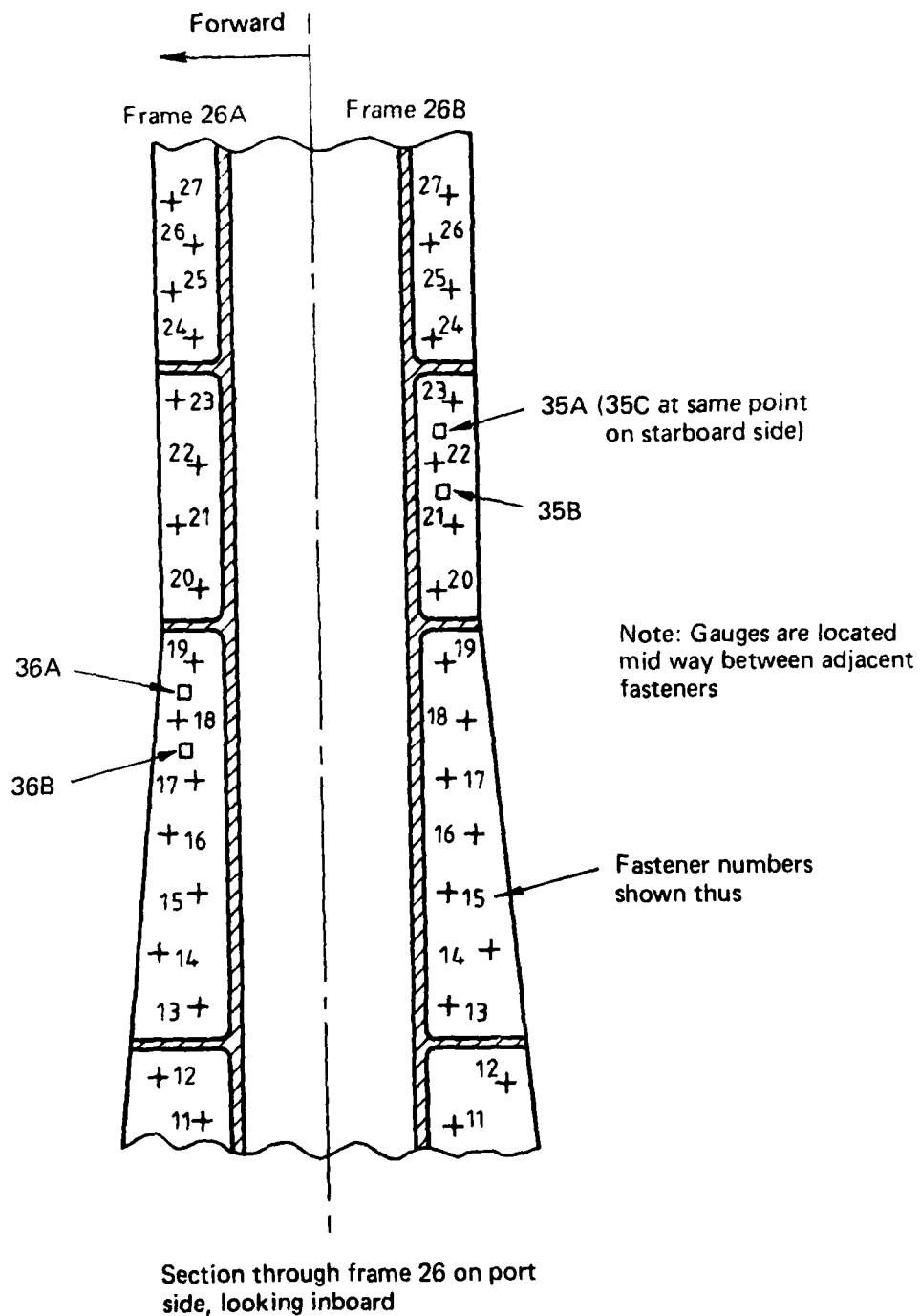


FIG. 2 LOCATIONS OF GAUGES ON INNER SIDES OF FRAME 26

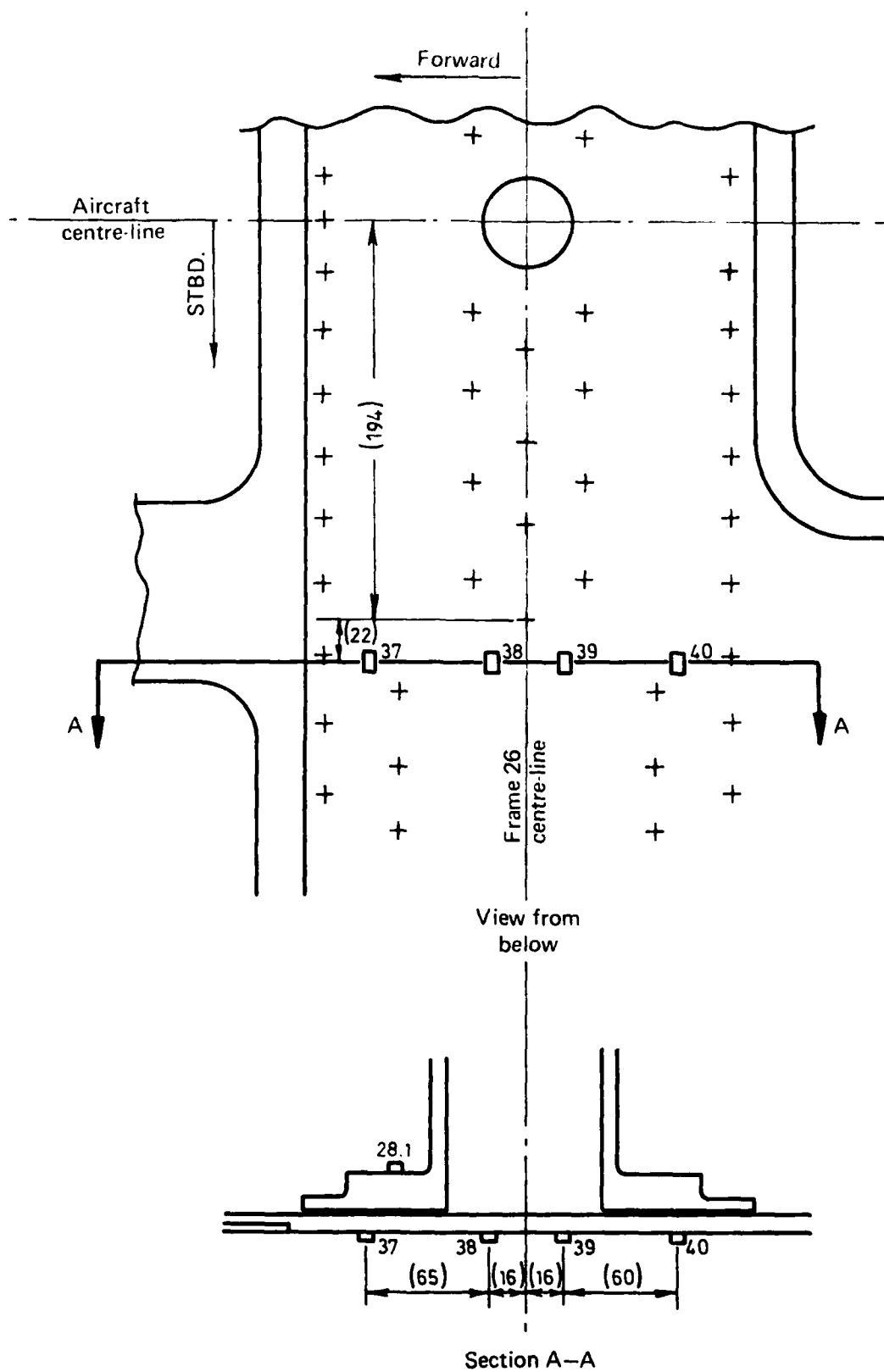


FIG. 3 LOCATIONS OF LOWER STRAP GAUGES  
(MEASUREMENTS IN PARENTHESES)

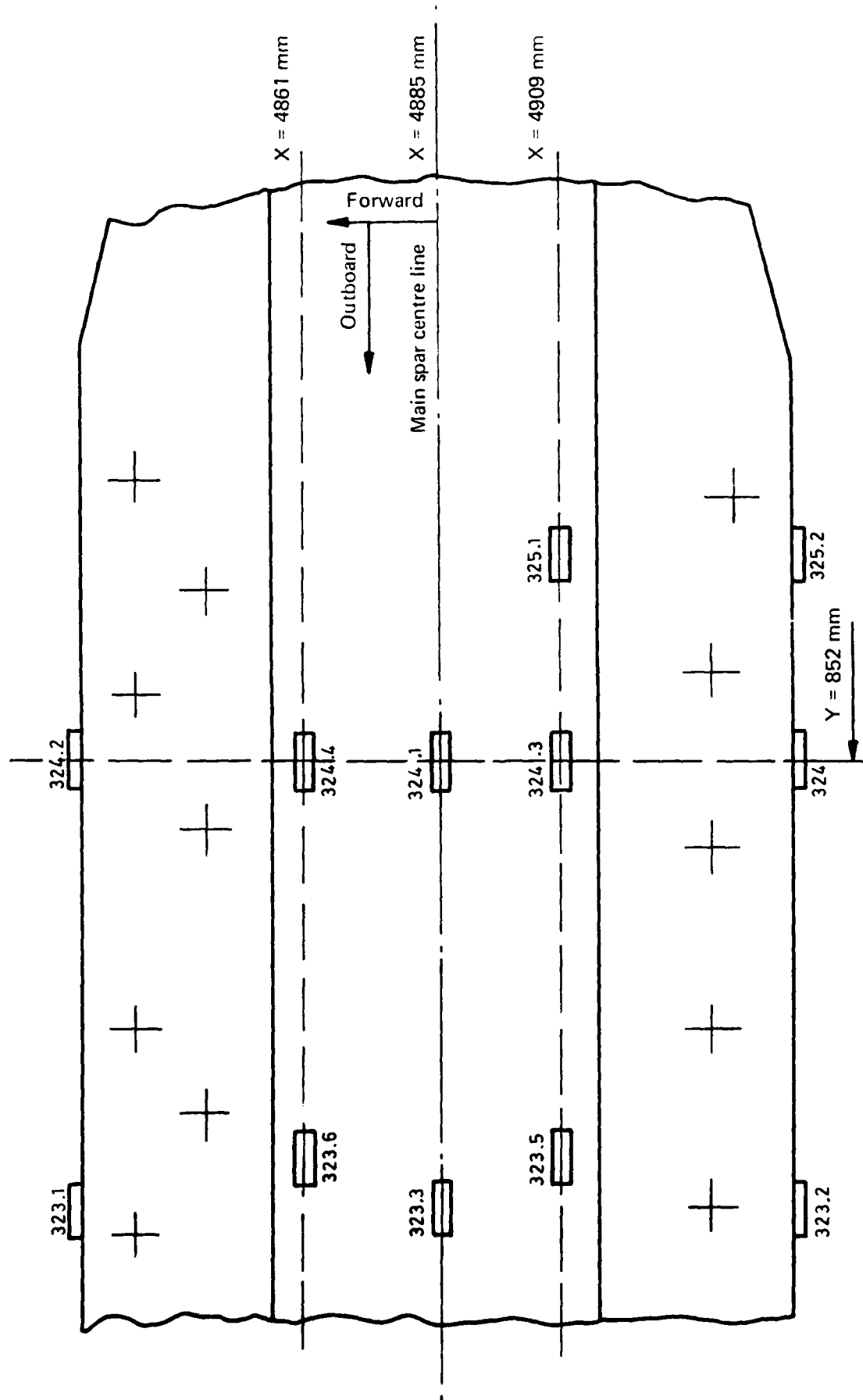


FIG. 4 LOCATION OF MAIN SPAR GAUGES ADJACENT TO WING ROOT (VIEW FROM BELOW SPAR)

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| 16. Abstract<br><br>Between 1978 and 1985, ground calibration loads were applied at the main store and Sidewinder hard points on the wings of Mirage A3-002. Strain response measurements are tabulated for the wing and fuselage frame 26.<br><br>In general, consistent results were obtained over the measurement period. |                                            |                                                                                     |                          |

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