



Dytran Instruments, Inc.

21592 Marilla St. Chatsworth, CA 91311 Ph: 818-700-7818 Fax 818-700-7880

www.dytran.com email: info@dytran.com



CALIBRATION CERTIFICATE INSTRUMENTED IMPULSE HAMMER

| CUSTOMER: ESTEQ TEST & MEAS. (PTY) LTD. | | | | TEST REPORT #: 2106 | | | | | | | | | | | |
|--|-----------------------------|--|------------|------------------------------------|----------|-------------------------|----------------------------------|---------------------------|--|--------------------------------|---------------------|--|---------------------------|-----------------------------|--|
| PURCHASE ORDER #: TM00870 | | SALES ORDER #: 162546 | | PROCEDURE: TP5001 | | | | | | | | | | | |
| MODEL: 5802A | | SERIAL #: 2106 | | RANGE, F.S. (Lbf): 5000 | | | | | | | | | | | |
| NEW UNIT | X | RE-CALIBRATION [1] | | AS RECEIVED CODE | | AS RETURNED CODE | | | | | | | | | |
| TEMPERATURE (°C): 24.4 | | | | HUMIDITY (%): 42 | | | | | | | | | | | |
| SENSITIVITY (mV/Lbf) [2]: 0.945 | | | | MAXIMUM IMPULSE (Lbf): 8000 | | | | | | | | | | | |
| REMARKS: NONE | | | | | | | | | | | | | | | |
| TEST EQUIPMENT LIST - CALIBRATION STATION # 11 | | | | | | | | | | | | | | | |
| DII # | MANUFACTURER | MODEL | SERIAL # | DESCRIPTION | CAL DATE | DUE DATE | | | | | | | | | |
| 955 | MOREHOUSE | 100,000 LB. | M7828 | CALIBRATING MACHINE | 12/28/12 | 12/28/13 | | | | | | | | | |
| 1376 | NICOLET | 310 | IAQ1708070 | DIGITAL OSCILLOSCOPE | 09/24/13 | 09/24/14 | | | | | | | | | |
| 045 | HEWLETT PACKARD | 3478A | 2911A67811 | MULTIMETER | 02/15/13 | 02/15/14 | | | | | | | | | |
| <p>[1] AS RECEIVED / AS RETURNED CODES:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">1 = IN TOLERANCE, NO ADJUSTMENTS</td> <td style="width: 33%;">4 = OUT OF TOLERANCE > 5%</td> <td style="width: 33%;">7 = UNIT NON-REPAIRABLE, RECOMMEND REPLACEMENT</td> </tr> <tr> <td>2 = IN TOLERANCE, BUT ADJUSTED</td> <td>5 = REPAIR REQUIRED</td> <td>8 = UNIT SERVICEABLE WITH CURRENT CALIBRATION DATA</td> </tr> <tr> <td>3 = OUT OF TOLERANCE < 5%</td> <td>6 = REPAIRED AND CALIBRATED</td> <td></td> </tr> </table> <p>[2] SENSITIVITY OBTAINED BY COMPRESSING HAMMER LOAD CELL IN SERIES WITH A RING DYNAMOMETER. THIS CALIBRATION IS TRACEABLE TO THE NIST THROUGH TEST REPORT # P-7829L2812 STD-45662A ANSI/NCSL Z540-1-1994, ISO 10012-1 DUE 12-28-13 ESTIMATED UNCERTAINTY OF CALIBRATION: 1.2%. THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN PERMISSION FROM DYTRAN INSTRUMENTS, INC.</p> | | | | | | | 1 = IN TOLERANCE, NO ADJUSTMENTS | 4 = OUT OF TOLERANCE > 5% | 7 = UNIT NON-REPAIRABLE, RECOMMEND REPLACEMENT | 2 = IN TOLERANCE, BUT ADJUSTED | 5 = REPAIR REQUIRED | 8 = UNIT SERVICEABLE WITH CURRENT CALIBRATION DATA | 3 = OUT OF TOLERANCE < 5% | 6 = REPAIRED AND CALIBRATED | |
| 1 = IN TOLERANCE, NO ADJUSTMENTS | 4 = OUT OF TOLERANCE > 5% | 7 = UNIT NON-REPAIRABLE, RECOMMEND REPLACEMENT | | | | | | | | | | | | | |
| 2 = IN TOLERANCE, BUT ADJUSTED | 5 = REPAIR REQUIRED | 8 = UNIT SERVICEABLE WITH CURRENT CALIBRATION DATA | | | | | | | | | | | | | |
| 3 = OUT OF TOLERANCE < 5% | 6 = REPAIRED AND CALIBRATED | | | | | | | | | | | | | | |
| CALIBRATION TECHNICIAN: <u>Phat Tran</u> | | | | TEST DATE: 11/20/13 | | | | | | | | | | | |
| PHAT TRAN | | | | RECOMMENDED RECALL DATE: 11/20/14 | | | | | | | | | | | |

