## Jefferson Lab Alignment Group <br> Data Transmittal

TO: T. Michalski, A. DiPette
e| DATE: 7 Jul, 2023
FROM: Chris Curtis
Checked: LEB
\# : L2074
DETAILS:
M: \align\Calcs\Accel\Leaning Stands
The following are the results of the torque survey of east arc stands conducted during the Spring '23 SAD. All quad stands and two thirds of the dipole stands were torqued. The quad data shows the number of bolts torqued out of 8 , and the minimum and maximum turns for that stack. Three stacks (14-16) were known to have been previously torqued. The other twenty-nine stacks are grouped together and had not knowingly been torqued since their installation.
For the dipole data the number of bolts torqued is out of a total of 16 . Several of these bolts needed a little tightening, however, none in 15 were found to be loose.

| QUADS |  |
| :---: | :---: |
| Top Quad / Stack | $\underline{\text { Date }}$ |
| QB1A17 / 14 | 21-Apr |
| QB1A18/15 | 21-Apr |
| QB1A19 / 16 | 20-Apr |


| PREVIOUSLY TORQUED |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| \# Tightened | Min Turns | Max Turns | Last Tight'd | Time B/w |
| 3 | 0.00 | 0.63 | 4/29/19 | 4 yr .0 mo . |
| 0 | 0.00 | 0.00 | 4/29/19 | 4 yr .0 mo . |
| 1 | 0.00 | 0.17 | 4/29/19 | 4 yr .0 mo . |
|  | Avg: | 0.363 |  |  |

## NOT TORQUED

| Top Quad / Stack | Date | \# Tightened | Min Turns | Max Turns | Avg Turns |
| :---: | :---: | :---: | :---: | :---: | :---: |
| QB1A01-16 / 01-13 | 15-26-May | 8 | 0.25 | 2.75 | 1.13 |
| QB1A21-38 / 17-31 | 23 Mar - 19 Apr | 8 | 0.13 | 1.30 | 0.95 |
| QB1A39 / 32 | 23 Mar | 6 | 0.00 | 0.50 | 0.25 |


| DIPOLES | Date | \# Tightened | Max Turns | Last Tight'd | Time B/w |
| :---: | :---: | :---: | :---: | :---: | :---: |
| EA07 | 24-Apr-23 | 6 | 0.625 | 29-Apr-19 | 4 yr .0 mo . |
| EA08 | 19-Apr-23 | 9 | 0.500 | 29-Apr-19 | 4 yr .0 mo . |
| EA09 | 18-Apr-23 | 7 | 0.250 | 14-Apr-21 | 2 yr .0 mo . |
| EA10 | 14-Apr-23 | 8 | 0.375 | 15-Apr-21 | 2 yr .0 mo . |
| EA11 | 12-Apr-23 | 4 | 0.063 | 16-Apr-21 | 2 yr .0 mo . |
| EA12 | 7-Apr-23 | 3 | 0.500 | 16-Apr-21 | 2 yr .0 mo . |
| EA13 | 29-Mar-23 | 8 | 0.250 | 29-Apr-19 | 3 yr .11 mo . |
| EA14 | 29-Mar-23 | 1 | 0.063 | 28-Apr-21 | 1 yr .11 mo . |
| EA15 | 29-Mar-23 | 0 | 0.000 | 29-Apr-21 | 1 yr .11 mo . |
| EA16 | 29-Mar-23 | 2 | 0.125 | 29-Apr-21 | 1 yr .11 mo . |
| 1S | 5-May-23 | 0 | 0.000 | 9-Apr-19 | 4 yr .1 mo. |

