



Jefferson Lab Alignment Group

Data Transmittal

TO: M.Wissman

DATE: 22 Nov 2016

FROM: Chris Gould

Checked:

: L1754

DETAILS:

M:\align\DATA\Fiduc\SWCR\161122A

Below are the inspection results of the RFAE02 girder, cavities B and D. The data is a comparison of the large flange locations before installation and the as-found locations once the girder was removed from the accelerator. It should be noted that the girder was aligned in beamline to our 2B tolerance of 250um. Values are in millimeters. A positive X is to the beam left, a positive Y is up and a positive Z is downstream.

| | Pre Installation | | | | Post Removal | | | Deltas | | |
|------------|------------------|-------|---------|-----------|--------------|------|---------|--------|------|-------|
| | X | Y | Z | | X | Y | Z | | | |
| RFAEOOD_US | 0.00 | 0.00 | -562.96 | RFAEOODUS | 0.00 | 0.00 | -563.07 | 0.00 | 0.00 | -0.11 |
| RFAEOOD_DS | 0.13 | -0.19 | -134.92 | RFAEOODDS | 0.16 | 0.26 | -135.09 | 0.03 | 0.45 | -0.17 |
| RFAEOOB_US | 0.06 | -0.16 | 135.18 | RFAEOOBUS | 0.14 | 0.31 | 135.49 | 0.08 | 0.47 | 0.30 |
| RFAEOOB_DS | 0.00 | 0.00 | 562.96 | RFAEOOBDS | 0.00 | 0.00 | 563.07 | 0.00 | 0.00 | 0.11 |