



Jefferson Lab Alignment Group

Data Transmittal

TO: M. Fowler

DATE: 24 Jan 2013

FROM: Chris Curtis

Checked:

: C1491

DETAILS:

Data: Aalign\HMS\2013\M012313A

A recent survey of the quads on the HMS defined the elevation of the central axis as 99.9975 m with respect to the linac elevation of 100.0000m. It is assumed that this value should be used to define beam elevation in Hall C for the SHMS rail installation. A list of survey monuments in the Hall is given below, with their elevations below beam as defined by the HMS. The elevations are measured to the center of a 1.5 inch sphere placed in the monument.

| Point | Below Beam (in) |
|---------|-----------------|
| HSC0042 | 155.470 |
| HSC0046 | 155.155 |
| HSC0050 | 155.985 |
| HSC0060 | 155.903 |
| HSC0070 | 155.453 |
| HSC0074 | 155.513 |
| HSC0076 | 155.619 |
| HSC0078 | 155.790 |
| HSC0080 | 156.009 |
| HSC0082 | 155.520 |
| HSC0084 | 155.871 |
| HSC0086 | 156.183 |
| HSC0090 | 156.402 |
| HSC0130 | 155.215 |
| HSC0135 | 156.282 |
| HSC0140 | 155.763 |
| HSOS001 | 155.126 |
| HSOS006 | 155.771 |
| HSOS007 | 155.685 |