Latency:
Two pairs of collinear reciprocal lines were run at the highest practical survey speed over the calibration target to calculate the offsetting latency corrector value applied by the EM-3000. The following formula was used: \( dl = dt / (2 \times \text{velocity}) \), where \( dl \) = latency corrector value and \( dt \) = target offset distance.

Yaw:
One pair of reciprocal lines with approximately 25% overlap was run over the calibration target. No offset was required, so a zero (0) misalignment value was entered into the POS/MV. The following formula is used for this calculation:
\[
\text{cy} = \text{atan} \left( \frac{dt}{2 \times \text{offset from track line}} \right),
\]
where \( \text{cy} \) = yaw corrector value and \( dt \) = target distance offset.

G.8 The tidal datum used for the survey was Mean Lower Low Water (MLLW). During post-processing, tidal data from the Sabine Pass offshore tidal station (877-1081) were used with correction offsets for tide zones 302 and 303. The tidal zone, stations, and offsets used during post-processing are given in the table below.

<table>
<thead>
<tr>
<th>Tidal Zone</th>
<th>Tide Station</th>
<th>Time Correction</th>
<th>Height Correction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>HW</td>
<td>LW</td>
</tr>
<tr>
<td>G302</td>
<td>877-1081</td>
<td>+24</td>
<td>-24</td>
</tr>
<tr>
<td>G303</td>
<td>877-1081</td>
<td>+12</td>
<td>-18</td>
</tr>
</tbody>
</table>

*VERIFIED TIDES FROM NOAA COAST WEBSITE HAVE BEEN APPLIED TO THE SURVEY DATA*

H. CONTROL STATIONS

H.1 The horizontal datum used for the survey was NAD83 (North American Datum of 1983).

H.2 No horizontal control stations were established for this survey. Existing land based stations used for SATLOC and Coast Guard beacon are listed in Appendix C.

H.3 Results of the 24-hour monitoring of the SATLOC differential signal are shown in Appendix H.* Results of the test are as follows:

A fix was taken every second totaling 94,682 position values (26.3 hours). The average PDOP value was 1.20.

The difference between control point LCG25 and average DGPS position:
- Northing = 0.12 meters
- Easting = 0.87 meters

*DATA FILED WITH ORIGINAL FIELD RECORDS*