1. **Assessment information collected:**

- GRE and TOEFL scores,
- Student background information from applications,
- Comprehensive examinations,
- Instructor evaluations,
- Student Annual Progress Reports,
- Graduate Committee Evaluations,
- Project/Thesis Documents and Presentations,
- Publications,
- Placement after completion of degree.

During the two academic years, student data was collected and analyzed using multiple direct methods. Student completion time to graduation was also tracked. During the reporting period one student completed an MS degree and five others were active in the program.

- Comprehensive examination: 6/6 passed
- Graduate Committee Evaluation results: (1-10 scale):
  - i. Knowledge of fundamentals 8.5
  - ii. Technical rigor 8.0
  - iii. Oral communication 9.0
  - iv. Scientific/professional writing 8.0
• Time to Graduation: Average for all students completing the degree program within the reporting period was: 2.50 years (one student).

2. Conclusions drawn from the information summarized above: for students

   Student learning outcomes continue to be met,

   MS GE Comprehensive Examination pass rate continues to be 100%.

   MS GE Graduate Committees' evaluations consistently found that the currently enrolled students made significant and continuous improvements over the period from entry to the program, and to advancement to candidacy.

3. Curricular changes resulting from conclusions drawn above:

   None.

4. Identify the faculty members involved in reaching the conclusions drawn above and agreeing upon the curricular changes resulting:

   All current Geological Engineering faculty members were involved in reaching the above decisions, conclusions, and actions resulting in no changes to the curriculum during the reporting period and are listed as follows:

   Professor Margaret M. Darrow (Margaret.darrow@alaska.edu)

   Professor Paul A. Metz (pametz@alaska.edu)

   Professor Debasmita Misra (dmisra@alaska.edu)

5. Student Assessment Data:

   One student completed an MS GE degree during the reporting period.

   Five additional students are currently enrolled in the MS GE program and have successfully completed their Comprehensive Examinations.
6. Has your SLOA plan been updated to include assessment of the program’s Communication Plan, as required by Faculty Senate motion? (required for baccalaureate programs only).

Not Applicable to M.S. Degree Program.

**Student Data (Graduated):**

<table>
<thead>
<tr>
<th></th>
<th>Graduate Student #1</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPA (GE Courses)</td>
<td>3.76</td>
</tr>
<tr>
<td>GPA (non-GE Courses)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>GRE (Quant/Verbal/Writing)</td>
<td>Percent below Q 22%, V 36%, W 6%</td>
</tr>
<tr>
<td>TOEFL (Composite)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Industry Experience (Yes/No)</td>
<td>No</td>
</tr>
<tr>
<td>Remedial Courses recommended</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Comprehensive Exam</td>
<td>Passed</td>
</tr>
<tr>
<td>Peer Review publications of MS Work (Yes/No)</td>
<td>Yes, Two publications</td>
</tr>
<tr>
<td>Placement (Yes/No)</td>
<td>No</td>
</tr>
</tbody>
</table>

**Comments:** One each publication in the Journal of Cold Regions Engr., Cold Regions Science and Tech.