## Performance Metric Formulas and Definitions

### Performance Metric Category: COST

<table>
<thead>
<tr>
<th>Metrics</th>
<th>Formula</th>
</tr>
</thead>
</table>
| Project Cost Growth          | \[
|                              | \frac{Actual \ Project \ Cost - Initial \ Predicted \ Project \ Cost}{Initial \ Predicted \ Project \ Cost} \]
| Delta Cost Growth            | \|Project Cost Growth\|                                               |
| Phase Cost Factor            | \[
|                              | \frac{Actual \ Phase \ Cost}{Actual \ Total \ Project \ Cost} \]
| Phase Cost Growth            | \[
|                              | \frac{Actual \ Phase \ Cost - Initial \ Predicted \ Phase \ Cost}{Initial \ Predicted \ Phase \ Cost} \]

### Definition of Terms

**Actual Total Project Cost:**
- Total installed cost at turnover, excluding land costs.

**Initial Predicted Project Cost:**
- Budget at the time of authorization.

**Actual Phase Cost:**
- All costs associated with the project phase in question.

**Project Cost Growth vs. Healthcare Project Cost Growth:**
- The formulas for each metric are identical. However, the Project Cost Growth score is compared with the BM&M database while the score for Healthcare Cost Growth is compared with the Healthcare projects database only.

**Delta Cost Growth vs. Healthcare Delta Cost Growth:**
- The formulas for each metric are identical. However, the Delta Cost Growth score is compared with the BM&M database while the score for Healthcare Delta Cost Growth is compared with the Healthcare projects database only.
### Performance Metric Formulas and Definitions

**Performance Metric Category: SCHEDULE**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Schedule Growth</strong></td>
<td>((Design - Startup Duration) - (Initial Predicted Design - Startup Duration)) (\frac{Initial Predicted Design - Startup Duration}{Initial Predicted Design - Startup Duration})</td>
</tr>
<tr>
<td><strong>Healthcare Project Schedule Growth</strong></td>
<td>((Design - OQ Duration) - (Initial Predicted Design - OQ Duration)) (\frac{Initial Predicted Design - OQ Duration}{Initial Predicted Design - OQ Duration})</td>
</tr>
<tr>
<td><strong>Delta Schedule Growth</strong></td>
<td>(</td>
</tr>
<tr>
<td><strong>Healthcare Delta Schedule Growth</strong></td>
<td>(</td>
</tr>
<tr>
<td><strong>Phase Duration Factor</strong></td>
<td>(\frac{Actual Phase Duration}{Actual Overall Project Duration})</td>
</tr>
<tr>
<td><strong>Healthcare Phase Duration Factor</strong></td>
<td>(\frac{Actual Phase Duration}{Actual Overall Healthcare Project Duration})</td>
</tr>
</tbody>
</table>

### Definition of Terms

**Actual Overall Project Duration:**
(Pre-project Planning through Start-up)

- Unlike Design-Startup Duration, Actual Overall Project Duration also includes the Pre-Project Planning Phase.

**Actual Overall Healthcare Project Duration:**
(Pre-project Planning through Operational Qualification)

- Unlike Design-OQ Duration, Actual Overall Healthcare Project Duration also includes the Pre-Project Planning Phase.

**Actual Phase Duration:**
- Actual total duration of the project phase in question.
# Performance Metric Formulas and Definitions

## Performance Metric Category: SAFETY

<table>
<thead>
<tr>
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<th>Formula</th>
</tr>
</thead>
</table>
| Total Recordable Incident Rate (TRIR) | \[
\frac{\text{Total Number of Recordable Cases} \times 200,000}{\text{Total Site Work Hours}}
\] |
| DART Rate (LWCIR)            | \[
\frac{\text{Total Number of DART Cases} \times 200,000}{\text{Total Site Work Hours}}
\] |

### Definition of Terms

**Recordable Cases:**
- All work-related deaths and illnesses, and those work-related injuries which result in: death, loss of consciousness, restriction of work or motion, transfer to another job, or require medical treatment beyond first aid.

**DART Cases:**
- Incidents resulting in days away from work, restricted activity, or transfer.

## Performance Metric Category: CHANGES

<table>
<thead>
<tr>
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<th>Formula</th>
</tr>
</thead>
</table>
| Change Cost Factor  | \[
\frac{\text{Total Cost of Changes}}{\text{Actual Total Project Cost}}
\] |

### Definition of Terms

**Total Cost of Changes:**
- Total cost impact of scope and project development changes.

**Actual Total Project Cost:**
- Total installed cost at turnover, excluding land costs.