Land O’ Frost Formulation Improvement

IPRO 345

Great Taste, Low Cost
- Family-Owned
- 50 years
- Various Customers
- Customer Satisfaction
a. Statement of the Problem

- Lansing, IL Plant
  - More efficient
  - More productive
- Our group’s Role
b. Organization of the Team

- Individuals’ expertise
- Minimal subdivision
- Small group size
  - Equal task distribution

<table>
<thead>
<tr>
<th>Name</th>
<th>Major</th>
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<tbody>
<tr>
<td>Alemayehu, Matti</td>
<td>Chemistry</td>
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<td>Amegasse, Pierre-Paul</td>
<td>Chemical Engineering</td>
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<td>Hogan, Michael</td>
<td>Computer Science</td>
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<td>Isoda, Mitchell</td>
<td>Applied Mathematics</td>
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<td>Li, Cheng</td>
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<td>Mick, Emily</td>
<td>Chemistry</td>
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<td>Torres, Edgar</td>
<td>Computer Science</td>
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Goals of the Project

- Evaluation of formulation process
  - Equipment layout
  - Inputs/Outputs
  - Efficiency

- Create viable solutions
  - process improvement
Progress Toward Goals

- Six Sigma methodology
  - Process Map
- Visits
  - Facility tours
  - Staff interviews
- Correspondence
  - Questions
  - Suggestions
Major Obstacles Encountered

- Obscure Floor Plan
- Confidentiality Agreement
- Inexperience in the industry
- Communication delays
  - E-mails
  - Plant Location
Anticipated Challenges

- Inability to implement suggestions
  - Previously considered
  - Difficult to implement
    - Lack of space
    - Cost
- Improvement verification
Questions?