**Background**

- ADM is looking to get into the farmer direct fertilizer business
- All fertilizer business is done with 550 other wholesalers
- ADM is interested in building a farmer direct fertilizer facility that cuts out the middle man and has blending capabilities

**Statement of Problem**

There are no current designs for farmer direct fertilizer facilities throughout the company. ADM is losing out on millions of dollars per year, because they don’t have the blending capabilities to sell directly to farmers.

**Our Solution**

- Design an efficient facility with blending capabilities
- 4-Bays @ 5,000 ton Legacy style storage building.
- Use an inside Yargus batch blending system for convenience
- 2 Covered load outs (1 for truck and 1 for railcar)
- Office and shop combination building with 2 truck scales and 1 rail scale
- Stainless steel or galvanized equipment
- Efficient truck traffic flow
- Keep future expansion possibilities in mind

**Given**

- $10 Million budget
- Barge, truck, and railcar unloading capabilities
- Truck and Railcar loading abilities
- Inbound and outbound conditioning capabilities
- Blending Capabilities
- 20,000 Ton storage with 4 bays minimum
- Dock system and Rail already exist on the property

**Batch Blender**

- Increased building life
- Lighting cost reduced
- Corrosion resistant material
- Low maintenance structure
- Quick construction time
- Efficient traffic flow
- Allows ADM to break into new market

**Legacy Building**

- Number of Scales
- Bucket elevator selections
- Alternative blending systems
- No rail scale
- No direct load out from dock
- New or used equipment
- Alternate Office Location

**Fertilizer Conditioner**

- $600,000
- $40,000
- $200,000
- $170,000
- $2,730,000
- $1,000,000
- $200,000
- $250,000
- $1,500,000
- $45,000
- $50,000

**Total:** $9,135,000

**Estimated Monthly Operational Costs**

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity</td>
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<tr>
<td>Maintenance</td>
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<tr>
<td>Fuel</td>
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<tr>
<td>Managers(X2)</td>
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<tr>
<td>Employees(X5)</td>
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<tr>
<td>Misc.</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$41,000/Month</strong></td>
</tr>
</tbody>
</table>

**Facility Layout**

- 3D Layout

**Acknowledgements:**

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