Title: Device for Converting ELP Aggregate to Soluble Form (Project#25)

Name: Dr. Darin Furgeson (Client),
      Eric Lee (Leader),
      John Harrison (Communication),
      Alber Kwansa (BSAC),
      Sasha Cai Lesher-Perez (BWIG).

Date: 9/9/05~9/15/05

Project Design Statement:

Restatement of Team Goals:
  Conduct online literature search to gain better understanding of ELP material and the purification processing involving ELP.

Individual Goals:
  • Eric Lee: brainstorm.
  • John Harrison: brainstorm, set up meetings with client to see the demonstration.
  • Albert Kwansa: brainstorm.
  • Sasha Cai Lesher-Perez: brainstorm.

Summary of Accomplishments:
  1. Met with client and had good understanding of the project’s final objective.
  2. Team divided up into small groups and conducted individual research in different relevant components of the project.

Statement of Team Goals:
  The team will meet up to develop PDS and brainstorm for possible designs for the project in the following week. Also, we will set up a meeting with our client to see the demonstration of the ELP transition from soluble to aggregated states.

Difficulties:
  The team is having a hard time in finding times when all members are available to meet. We will have to use the classtime on Friday very efficiently.

Activities:
  The team divided up into small groups with specific research assignments.
  • Eric Lee: research ways for particle size reduction of ELP aggregate pellet.
  • John Harrison: research ways to extract salt (NaCl) from ELP solution.
  • Albert Kwansa: research ways to extract salt (NaCl) from ELP solution.
  • Sasha Cai Lesher-Perez: research ways to mediate temperature of ELP solution.
Project Schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Activities</th>
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<tbody>
<tr>
<td>1</td>
<td>9/2/2005</td>
<td>Form Teams, Select Project, Contact client</td>
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<tr>
<td>2</td>
<td>9/9/2005</td>
<td>Literature Search; Meet with Client</td>
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<td>3</td>
<td>9/16/2005</td>
<td>Develop Understanding of Project; Develop PDS</td>
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<td>4</td>
<td>9/23/2005</td>
<td>Brainstorm</td>
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<tr>
<td>5</td>
<td>9/30/2005</td>
<td>Decide on Three Design Alternatives</td>
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<td>6</td>
<td>10/7/2005</td>
<td>Work on Presentations</td>
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<td>7</td>
<td>10/14/2005</td>
<td>Hand in Written Report including PDS; Submit Design Notebooks for Advisor</td>
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<td>8</td>
<td>10/21/2005</td>
<td>Review</td>
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<td>9</td>
<td>10/28/2005</td>
<td>Decide on Final Design</td>
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<td>10</td>
<td>11/4/2005</td>
<td>Work on Design</td>
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<td>11</td>
<td>11/11/2005</td>
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<td>12</td>
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<td>Finalize Design</td>
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<td>13</td>
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<td>Work on Power Point Presentation</td>
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<td>14</td>
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<td>15</td>
<td>12/7/2005</td>
<td>Work on Final Report</td>
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<td>15</td>
<td>12/9/2005</td>
<td>Final Meeting with Advisor</td>
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