Lehman Review & Close-Out Report

R. Fuller provided additional copies of the Close-Out report for those present who had not already received a copy. For additional copies contact R. Fuller or Nixx Arias. All were congratulated on a job well done. Per R. Larsen “the review was well received” and “reflected an incredible amount of work”. With this review we have established the official starting point against which future reviews will be referenced. For this fact alone it is strongly recommended that each contributor archive those materials that went into their presentations for this review to insure a reference “snapshot in time” that can be referred to in future comparisons. Discussion turned to the issue of responses to the recommendations of the review committee. Each system engineer was asked to begin formulating responses in preparation for further discussions on their respective system. R. Larsen will contact specific individuals later this week with more specific guidelines. R. Fuller stated that he would obtain copies of the formal presentation binders and keep them in the Controls NLC Reference Area outside Rm. 207.

Conventional Facilities

R. Fuller referenced C. Corvin’s Conventional Facilities meeting held on Friday, 6/4/99, with specific attention to the work Clay had done in response to the review committee’s interest in evaluating alternate layouts for the tunnel and associated support equipment areas and also their concern over the large number of penetrations and access shafts proposed for the project. Clay presented his “Linac Layout Alternatives” cost comparison in which it still appears that the current baseline model (surface support buildings with penetrations/access shafts to the tunnel 46’ below) is the most cost effective from strictly housing and penetration concerns. A copy of Clay’s document is included as enclosure #1. Further discussion and work will be required to factor in the cost differences for the beamline support systems and cableplant.
Continuing Efforts

With respect to scheduling and loading Ray suggested that, while the info is still fresh in our minds, each system engineer complete/refine their respective models as this data will be collected for input into the project scheduling tool Primavera. Additionally, costing data will utilize COBRA which was the platform used most recently for the PEP II project.

Action Items: none.

Next Meeting: Monday, June 14, 1999, B034 First Floor Conference Room, Room 105, 1430-1530

Agenda: Open.

Enclosures: (1)
# Linac Layout Alternatives

**Next Linear Collider**

<table>
<thead>
<tr>
<th>Utility &amp; Access Shafts</th>
<th>3 Models</th>
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</thead>
<tbody>
<tr>
<td>123 ea. @ -46' et.</td>
<td></td>
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<tr>
<td>4 Every 3 Sectors</td>
<td></td>
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<tr>
<td>Half a Million $ Each</td>
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**RF Penetrations**  
3 Models

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<thead>
<tr>
<th>920 ea. @ 46' &amp; 20&quot; ID</th>
<th>or</th>
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<tbody>
<tr>
<td>3680 ea. @ 23' &amp; 10&quot; ID</td>
<td>or</td>
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<tr>
<td>3680 ea. @ 6' &amp; 10&quot; ID</td>
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<thead>
<tr>
<th>Cost Estimate</th>
<th>Surface Klystron Gallery &amp; Near Surface Beam Tunnel @ -46' el.</th>
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<tbody>
<tr>
<td>[530,753,956]</td>
<td>[228,764,303] Near Surface Beam Tunnel @ 14' ID</td>
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<tr>
<td>[19,409,222]</td>
<td>[67,250,785] Vertical RF &amp; Cable Penetrations @ 920 ea.</td>
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<tr>
<td>[215,329,647]</td>
<td>[844,982,825] Surface Klystron Gallery @ 92 ea.</td>
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<td>[675,577,701]</td>
<td>[153,862,346] Near Surface Utility &amp; Access Shafts @ 123 ea.</td>
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<td>[67,250,785] Below Surface Klystron Gallery Tunnel @ 23' ID</td>
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<td>[844,982,825]</td>
<td>[282,210,314] Below Surface Beam Half Tunnel @ 11.5' IR</td>
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<td>[341,778,023]</td>
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