In attendance: W. Gallagher, D. Goerz, G. Loew, R. B. Neal

Discussion:

The discussion centered around the schedules for Mark IV Redesign, and what the various tests on the accelerator would include.

Decision:

The schedule for testing and Mark IV Conversion would be as follows:

<table>
<thead>
<tr>
<th>Time</th>
<th>Date</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 wks</td>
<td>April 18-29</td>
<td>Retest of T/2 sections</td>
</tr>
<tr>
<td>1 wk</td>
<td>May 2 - 6</td>
<td>Install new 2T/3 sections</td>
</tr>
<tr>
<td>3 wks</td>
<td>May 9 - 27</td>
<td>Test new 2 T/3 sections</td>
</tr>
<tr>
<td>3 wks</td>
<td>May 20-July 22</td>
<td>Conversion to new system</td>
</tr>
<tr>
<td>3 wks</td>
<td>July 25-Sept 19</td>
<td>Test &amp; shakeout new system</td>
</tr>
</tbody>
</table>

The testing of the T/2 & 2T/3 sections would consist of the following:

Spectra Tests

Current - Pre-buncher effect
  Section 1
  Section 17

Synchronous
De-synchronous

Loading Tests

Sust. Impedance, (with recorder)

Current Transmission Tests

With Pre-buncher
  with lens
  without lens

Beam Break-up Tests

Hi current gun (with & without pre-buncher)

specifications on Hi current gun

Amp 1.5
Oxide cathode
12 kv grid
Modulator
1.5 sec pulses injector & grid.
Re-radiation experiments - Section II
Resonance loading

Section II
Phaseing calibration
Beam position vs. position of injector

Monitoring equipment required for tests.

rf Monitor
Input
  Sect. 1 & 2  thermistor
  Freq. meter  thermistor
Output
  Sect. 1 & 2  Thermistor
  rf input 2
  rf output 2
  rf 346 A60
  rf V870
     Sect I
     Sect II
Power V 870
(+2 rf cables)

Current Monitor
  Straight ahead
  10' Faraday cup
  10' straight ahead
  Analyze 20'
  Faraday
  Ion Chamber
Injection pulse calibrated
Grid pulse calibrated
Input current
Magnet with good regulation 10'
Magnet with good regulation 20'
Equipment necessary for the job is as follows:

Klystrons

2 good ones @ 15 megawatts ea.
4 windows plus 4 spares
Calibrated coupler for pre-buncher
Input I & II
Output X & II

V 87C operational
SAB-60 operational
Conduct 20 db coupler installed on K1, input
Collimator remote operation 10⁴ & 20¹
Benz detector 10⁵ (remote operation)
Phase shifter (hi power)
Guide pan plus spare
Modulator rebuilt - first injection pulse
Peaking strip
Window protection (vacuum)
K-Y recorder installed

The next meeting is scheduled for February 26, 1960.