In analyzing the results of the 1/16" run, it was concluded that the following were factors:

1. For some undetermined reason, the stock drainage was poor - about 100-140 seconds. Previous trials indicated a drainage rate of 60 seconds (1 gallon sample diluted to 15 liters).

   P. S. There is no accurate check on stock consistency. A couple of check s were made and it varied from 4.2% to 4.7%. This can affect drainage.

2. This run was preceded by a two-day run of 5-pound starch paper using scrap. The scrap is badly contaminated, furthermore, it contains silica which is strongly alkaline and could affect the controlled precipitation of the latex. As a matter of fact, samples of the white water taken from the No. 6 vat appeared cloudy, indicating traces of latex. This in turn could plug up the screens and the felt sufficiently to slow down the drainage.

3. A new and different felt was in use.

Thursday

On Thursday morning we started using 100% 6D04 fiber - hoping for better drainage, and machine settings similar to Wednesday's runs.

Drainage appeared to be satisfactory, but again problems were encountered in maintaining basis weight. In addition, blistering was encountered initially which was eventually eliminated.

The formula was changed back to the 70/30 blend of 6D04/6D02 fibers on Thursday afternoon to see if this would account for previous day's poor drainage. No difference was encountered.

It is apparent that there are manufacturing problems in running 1/16" #6222 material. We would recommend that the following action be taken:

1. Investigate the use of alum (4-5# per batch) in order to get complete coagulation of the latex. This should not affect the formation which appears to be good. Van Sebastian should initiate this.

2. The water should be heated (140°F. if possible) for better precipitation and agglomeration and therefore better drainage. Manufacturing to initiate.

3. Reasons for the wide variations in drainage rates encountered should be determined.
   Van Sebastian should initiate.

4. The condition of felt.

5. Feel that lot can be done by machine adjustments. A more experienced machine tender would probably make a noticeable difference.