TRIPLE/S DYNAMICS
PROCESS EVALUATION

█████████████

BY: ████████████

SUBJECT: Deck Slope on a Texas Shaker

BACKGROUND: ████████████████████████████ sent approximately
100 lbs. of soybean screenings to the Triple/S
Dynamics Laboratory to be used in evaluating
the effects of changing the deck slope of a Texas
Shaker on screening performance. The 1 x 3
Texas Shaker was used for the test.

SUMMARY: No significant effect on screening performance
could be found by changing the deck slope
within a range from 2° to 8.9°.

PROCEDURE: A 1/8" round hole deck was used for the test.
Product was fed onto the deck at a rate of 6700 lbs/
hr/ft of width. The product was passed over the deck
a total of three times per treatment and the weight
of the fines determined after each pass. The total
weight of fines and overs was determined at the end
of each treatment. The deck slopes evaluated were
1.9°, 2.9°, 4.5°, 5.8°, and 8.9°.

RESULTS: The results of the evaluation of deck slope to
screening performance is presented in Table 1.

TABLE 1 - Percent Fines Removed After Each Three Foot
Pass on a Texas Shaker, Adjusted to Various
Deck Angles

Deck Angle	1st Pass	2nd Pass	3rd Pass
1.9	8.90	12.27	13.55
2.9	9.29	12.04	13.49
4.5	10.28	12.35	13.47
5.8	9.54	12.22	13.40
8.9	9.91	12.32	13.44

It would appear that variations in percent fines
removed after three passes is probably due to lack
of uniformity in remixing of the sample after each
treatment. It would appear that many of the assumptions
we have made about the screening performance of the
Texas Shaker will have to be confirmed on the new
lab test unit.

████████████████

LABORATORY TESTING REQUEST

Sample No. _79-114_   Date ████████

Salesman ████████   / /

Customer ████████████████████

Address ████████████████████

Type of Sample _soybeans_

Sample Size _2 bags_

Disposition of Sample _____

Test Proceedures   Physical Characteristics

Date of Test _____

Sieve Analysis _____   Range _____

Bulk Density _____   Specific Gravity _____

Moisture _____   Ash _____

Others: _____

Process

SCREENING TEST
Type of Machine _____   Screen Size _____

GRAVITY SEPARATION
    T15 _____   Stoner _____   Concentrator _____
    V135 _____   Automedia _____   Aspirator _____
    Type of Deck _____

Granulation
    Grate _____
    Special Features _____

Describe any special test desired or any additional infor-
mation regarding tests listed above _____
_____
_____
_____