

**SUMMARY OF STOP DISTANCE TEST OF LORAM SWITCH CROSSING RAIL GRINDER, UNIT J-006.**

ALL TESTS WERE MADE NEAR M.P. 192 ON THE RED RIVER VALLEY SUBDIVISION, TEXAS DIVISION, ON THE MORNING OF FEBRUARY 7, 2012.

THE LORAM J-6 RAIL GRINDER HAS THE ABILITY TO MOVE IN MULTIPLE MODES. FOUR DIFFERENT MODES WERE TESTED WITH ONE TEST REPEATED.

ALL TESTS WERE PERFORMED AS FOLLOWS:

- MACHINE AT STOP WITH A MARK 31 FEET IN ADVANCE OF WEST END OF MACHINE SIMULATING ESTIMATED DISTANCE FROM MACHING TO DERAIL.
- MACHINE THEN ACCELERATES WESTWARD UNTIL OPERATOR CAN SEE MARK ON ONBOARD MONITOR, OPERATOR THEN INITIATES STOP.
- MEASUREMENTS WERE MADE REALATIVE TO LOCATION OF MARK OF SIMULATED DERAIL. THIS MARK IS REFERED TO AS THE “DERAIL”

TEST 1. MACHINE IN HIGH IDLE, TRAVEL MODE: MACHINE STOPPED 11 FEET PRIOR TO PASSING DERAIL. MAXIMUM SPEED 2.1 MPH.

TEST 2. MACHINE IN HIGH GEAR, HIGH IDLE, GRIND MODE: MACHINE STOPPED 14 FEET PAST DERAIL. MAXIMUM SPEED 3.5 MPH.

TEST 3. MACHINE IN LOW GEAR, HIGH IDLE, GRIND MODE: MACHINE STOPPED 4 FEET PAST DERAIL. MAXIMUM SPEED 4.5 MPH.

TEST 4. MACHINE IN TRAVEL MODE, LOW GEAR, HIGH IDLE: MACHINE STOPPED 10 FEET PRIOR TO PASSING DERAIL. MAXIMUM SPEED 3.9 MPH.

TEST 5. REPEAT OF TEST 2, MACHINE IN HIGH GEAR, HIGH IDLE, GRIND MODE: MACHINE STOPPED 15 FEET PAST DERAIL. MAXIMUM SPEED 3.6 MPH.

NOTE: MAXIMUM SPEED DETERMINED BY USE OF K-15 RADAR GUN, MODEL K15-K, AND CALABRATED USING 50 MPH K BAND TUNING FORK.