

Fermilab

**Particle Physics Division
Mechanical Department Engineering Note**

Number: MD-ENG-044

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Project Reference: T-Blocks, WBS 1.1.2.3.2.3.3.6, UID 74762,
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Project: NuMI

Title: T-block load test

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Key Words: T-block, load test, dye penetrant testing

Summary: Each T-block was load tested at no less than 125% of its weight in two positions. Figure 1 shows a T-block being load tested in the installed position (supported at the ends of the support tube). Figure 2 shows a T-block being load tested by lifting it with the handle. Each load test was held for at least 10 minutes*. The welds between the support tube and the CCSS were dye penetrant checked for cracks after the load tests, Figure 3.

Applicable Codes: **usually overnight*

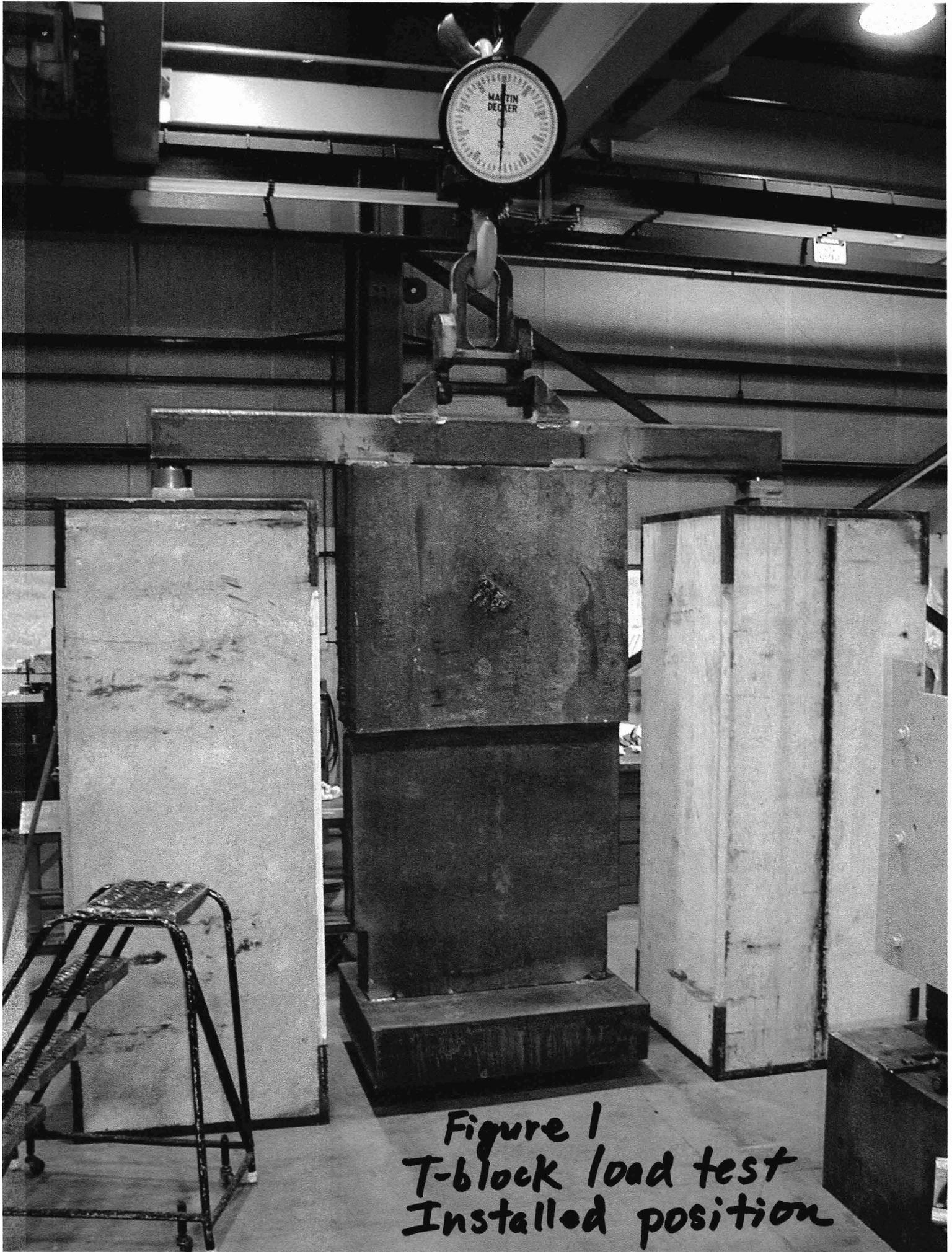


Figure 1
T-block load test
Installed position

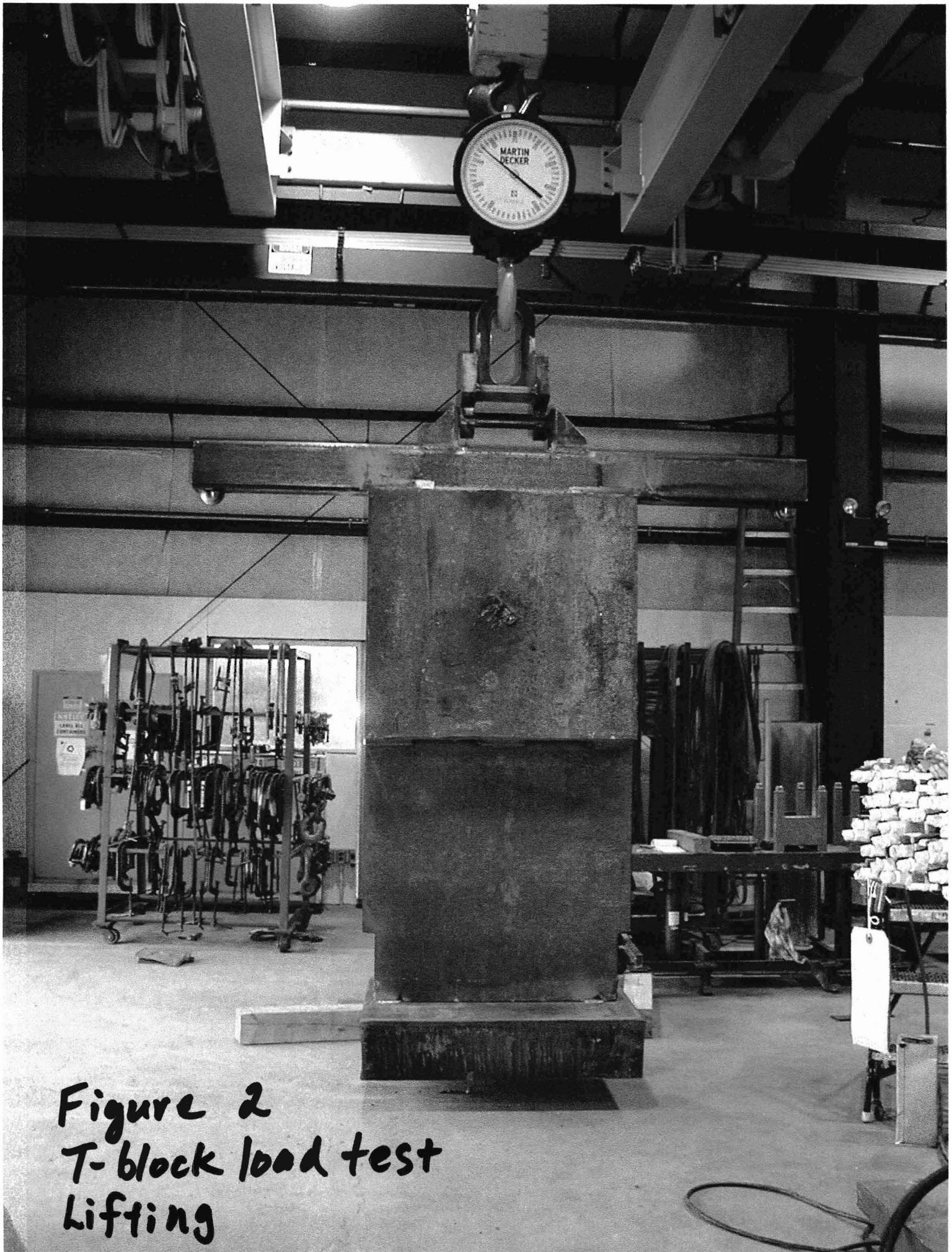
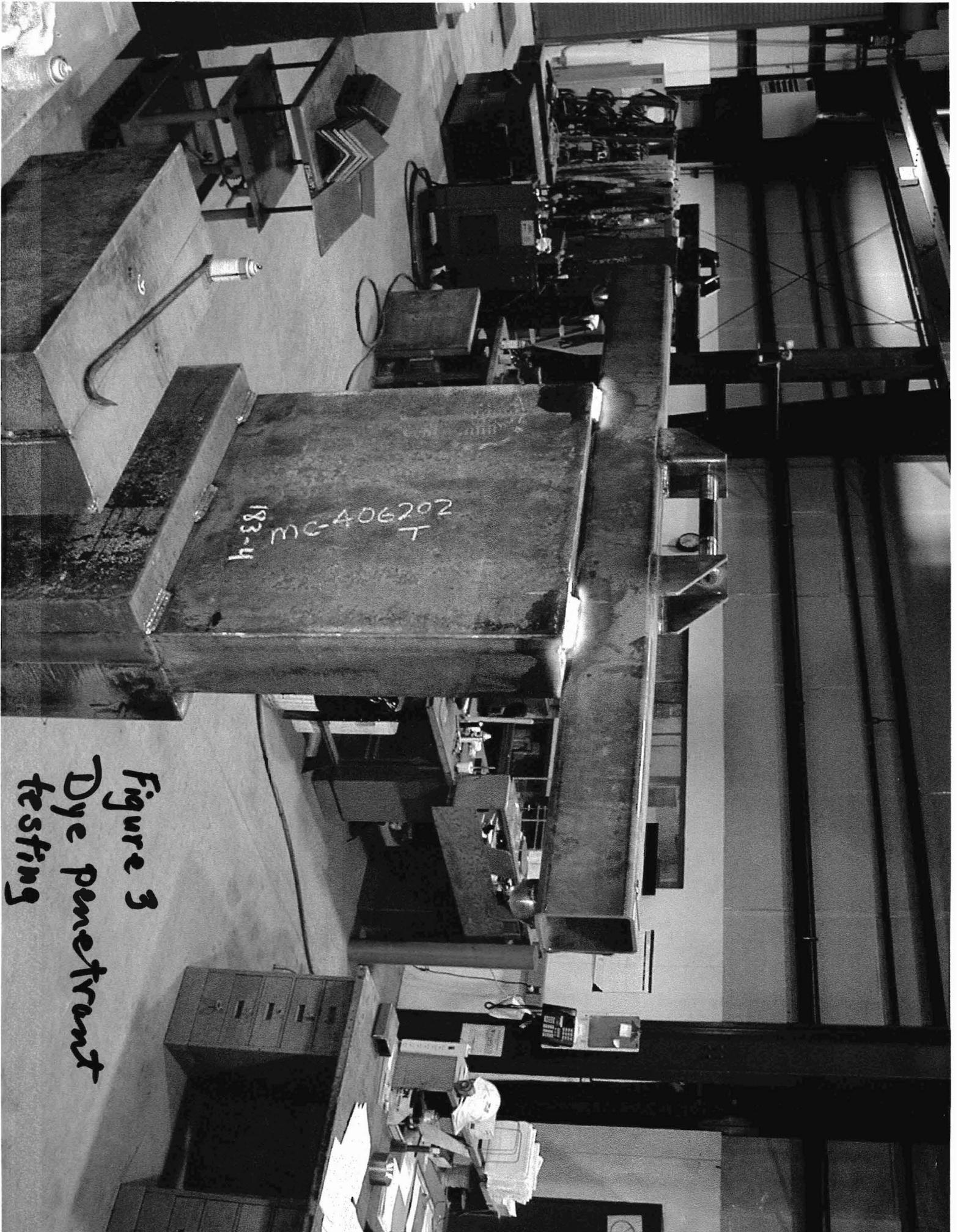


Figure 2
T-block load test
Lifting



*Figure 3
Dye penetrant
testing*