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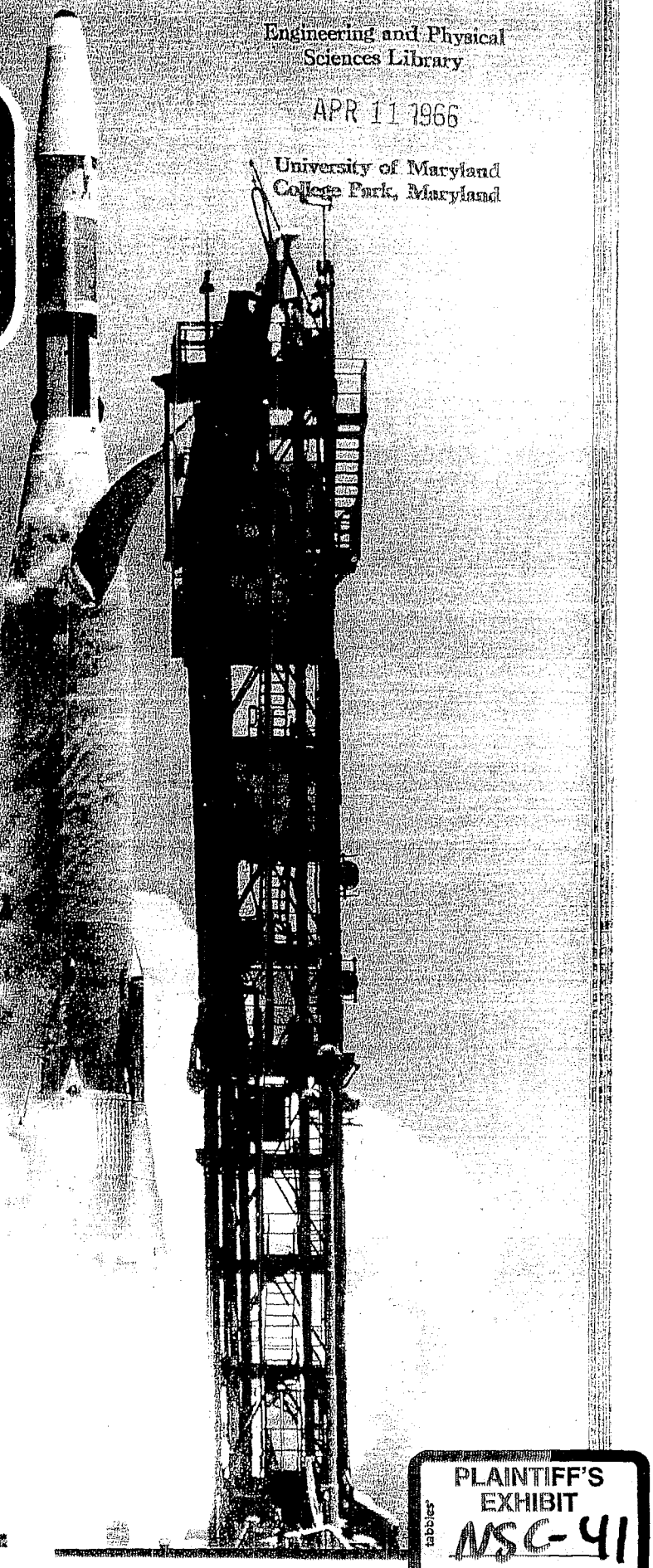
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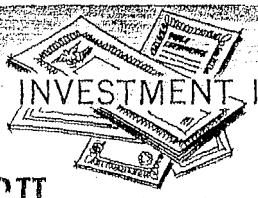
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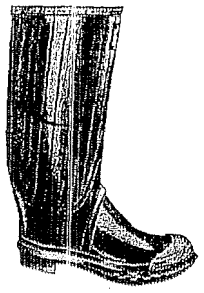


PLAINTIFF'S EXHIBIT
NSC-41



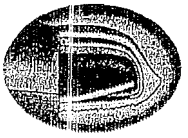
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CIRCLE 15 ON READER CARD

in old National Safety Council *Safe Practices Pamphlet Number* [illegible] "Fiber Rope." Even here no mechanical testing as such is recommended except that "scaffolds or other rigging involving human safety should be tested with a load at least three times that which it will carry in service. However, this load should not be more than three feet off the ground when the test is made."

Your opinion of the above procedure, especially on the rope stretching aspect, would be sincerely appreciated.

Answer: We are assuming that you are referring to manila rope. The 5th edition of our *Accident Prevention Manual* gives the following breaking strengths and safe loads for manila rope:

Diameter	Average Breaking Strength (lbs.)	Safe Working Load (20 Per Cent of Minimum Breaking Strength)
½"	2,650 lbs.	530 lbs.
¾"	5,400 lbs.	1,080 lbs.
1"	10,500 lbs.	2,100 lbs.

The manual does not recommend strain testing of fiber rope, for the reason that such testing may itself damage the rope and weaken it further. However, if it were feasible to cut off a short section at the end of the suspected rope and test it to destruction, it would then be feasible to apply the usual safety factor of five to the strain at which the rope broke.

The manual recommends visual inspection every 30 days under ordinary conditions, and daily inspection if exposed to acids or caustics. To quote:

"Inspection should mean examination of the entire length of the rope for wear, abrasions, broken or cut fibers, displacement of yarns or strands, variation in size or roundness of strands, discoloration, and rotting. To inspect the inner fibers, the rope should be untwisted in several places to see whether the inner yarns are bright, clear, and unspotted . . . A rope that has lost its feel of pliability or stretch, or in which the fibers have lost their luster and appear dry and brittle, should be replaced by new rope."

So far as our old, discontinued *Safe Practices Pamphlets* are concerned, we prefer that they not be used for reference purposes.