



## Wirelife™ Monolec® Penetrating Lubricant

**NCI Building Systems – Mattoon, Illinois**

**Cranes & Wire Ropes**

- Penetrates into the core, lubricating wire strands as they move and flex
- Significantly increases wire rope life by preventing strand breakage
- Reduces costs associated with wire rope replacement, labor and downtime

### Customer Profile

NCI Building Systems manufactures steel building components for all types of buildings. NCI has been in business since April 1991.

### Application

NCI has eleven 5-ton overhead cranes, one 7½-ton crane and one 10-ton crane. These cranes have 3/8-and 5/8-inch diameter wire ropes, which lift and move coils of prefinished sheet steel and other steel components.

### Challenge

NCI was not using any lubrication on its wire rope because it was factory-lubricated. However, the strands were breaking and the wire ropes had to be replaced prematurely for safety reasons.

### Solution

Berle Hartman, LE lubrication consultant, recommended LE's Wirelife Monolec Penetrating Lubricant (2001), which penetrates into the core of the wire rope to provide excellent corrosion resistance. It lubricates the wire strands as they move and flex, which keeps the strands from breaking and the wire rope from weakening. It also provides superior load-carrying capacity.

### Results

Using Wirelife Monolec Penetrating Lubricant has significantly increased the wire rope life. Ropes are lasting more than twice as long as they were before the lubricant switch. Inspection shows no broken strands. It is sometimes still necessary to replace a wire rope because of misuse, which results in kinking, but not because of the rope wearing out prematurely.

Dale Thornton, NCI's maintenance supervisor, says, "LE's 2001 saves on the cost of the wire rope, downtime, possible loss of production, and for the labor for wire rope replacement."

### Other LE Products Used

- Monolec® Gear Lubricant (704)
- Almasol® Worm Gear Lubricant (680)
- Almaplex® Industrial Lubricant (1275)
- Monolec Ultra® Engine Oil (8800)
- Monolec® Power Fluid (7500)
- Multilec® Industrial Oil (6802)
- Monolex® Penetrating Oil & Lubricant (2059)
- Pyroshield® Aerosol (5100)

*Thank you to NCI's Dale Thornton, maintenance supervisor, and Denny Maas, plant manager, and to Berle Hartman, LE lubrication consultant (pictured), for providing the information used in this report.*



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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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