



# San Diego Public Works Center Ergonomics Case Study

## CASE STUDY NINE

### JOB

Crane Cable Lubrication

### WORK SITUATION

Workers apply grease to crane cables

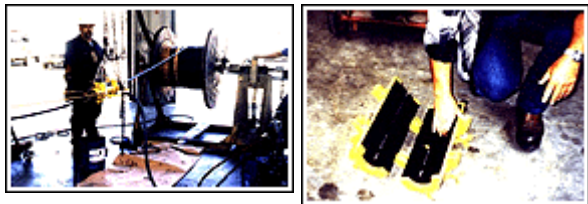
### PROBLEMS

1. Risk of back and extremity injuries
2. Risk of falling
3. Inside of the cable is not cleaned
4. Outside of the cable is not thoroughly cleaned
5. This process wastes grease

NOTE: 38 cranes have to be routinely serviced every one to two years. The routine crane cable greasing process takes two full days to complete using one additional crane and six total workers. This is usually done on the weekend with workers collecting overtime to keep crane down time to a minimum.

### INTERVENTION

Kirkpatrick Wire Rope  
Lubrication System



### SOLUTIONS

1. Minimal risk of musculoskeletal injury
2. Reduced risk of fall injury
3. Inside and outside of the cable are cleaned
4. Reduced time of completion
5. System uses 10% to 50% less grease

NOTE: This system can be used to grease cables as they are being put into place after a breakage. This limits crane down time from the job. Cranes are PWC's biggest source of income. It is important to keep them in good working order and on the job. Well maintained cables are a major safety concern as well.

### OTHER NAVY APPLICATIONS

The Kirkpatrick System can be used on almost all sizes and types of cable in nearly every environment, including ships.

### AVAILABILITY

The Kirkpatrick Group, Model JU 120, \$8200.00, 800-466-4414 \*

### COMMENTS

This unit can be used on cable ranging in size from 3/8 4 inches in diameter. It has been tested and approved for Naval use. \*SEE THE NAVY'S [PRODUCT DISCLAIMER](#)