

THE PROFESSIONAL RIGGER®

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WASHINGTON GOVERNOR'S INDUSTRIAL SAFETY & HEALTH CONFERENCE

Wire Rope & Rigging Consultants, Inc. was asked to make a technical presentation geared to the electrical utility group for the 36th annual conference held October 22 & 23, 1987 at the Seattle Center. Organizers estimated the attendance to be over 2,000 people. Besides the Electrical Panel, 15 other panel groups such as Agriculture, Food & Beverage and Aerospace held a variety of short informative seminars on many subjects. For more information concerning the 1988 conference and programs, contact the **Safety Program Coordinator, Dept. of Labor & Industries, 1011 Plum St., PO Box 207, Olympia, WA 98504 (206)753-9648.**

CERTIFIED INSPECTOR PROGRAM

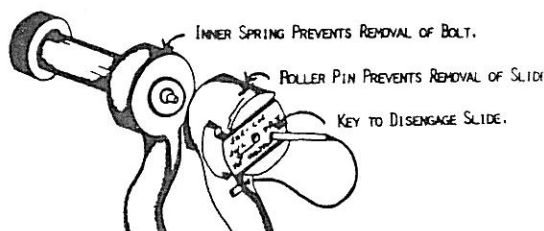
WRRC's latest addition to its training division is the **Certified Inspector Program**. Participants may receive certification in five sections over a three-day program of intense instruction, written exams and the successful completion of a series of field inspections. The course sections are: (1) **Wire Rope** (2) **Wire Rope Slings** (3) **Synthetic Web Slings** (4) **Alloy Chain Slings** (5) **Rigging Hardware / Proof Testing**. Instructional format is based on OSHA CFR 29 1910, ANSI B30 series, ASTM A-391, ASTM E-4, RR-W-410D, NUREG 0612(applicable), plus NDT, proof & destructive testing.

The Certified Inspector Program may be of particular interest to those in the nuclear industry and to government agency groups. If your company would like to sponsor a CIP course for your employees or those from a number of local companies, please contact WRRC. The next scheduled CIP course will be held in Portland, OR on April 19, 20 & 21, 1988. For more information concerning this program, please contact: **Director of Training, WRRC, PO Box 728, Vancouver, WA 98666 or call (206)693-6030.**

NEW PRODUCTS

• SUR-LOC Shackles

A recent addition to the shackle market is the SUR-LOC shackle. It has an inner spring which prevents removal of the bolt. There is a locking slide mechanism which engages the pin, where we normally find the threads of a screw pin shackle. Currently manufactured in 316 stainless steel, SUR-LOC intends to manufacture these in hot dip galvanized. Their shackles meet Federal Spec. RR-C-271B. For more information contact SUR-LOC Inc., PO Box 750, Fremont, IN 46737 or call 1-800-495-4065.



SHACKLE USE & INSPECTION

THESE ARE SOME OF THE KEY SAFETY HIGHLIGHTS WE RECOMMEND THAT OUR CLIENTS KEEP IN MIND DURING THEIR DAY-TO-DAY RIGGING OPERATIONS.

- 1) When attaching a shackle to a load or slings as a lifting member, tighten the pin securely in place and employ any means necessary to "mouse" the pin to prevent it from backing out.
- 2) Check the shackle pin (nut / cotter pin if that style), ears and bail for deformation, cracks or metal loss prior to each lift.
- 3) Avoid sudden acceleration, deceleration or shock loading to any rigging equipment.
- 4) Never weld onto a shackle body or pin.
- 5) Never substitute a shackle pin with anything other than the exact replacement pin from the manufacturer.
- 6) Always position the shackle in such a manner so it is being pulled bail to pin, not side-to-side.
- 7) Never force too small a shackle onto a hook.
- 8) Never allow the pin to be in contact with a "running" portion of a sling body, as the pin may be unscrewed.
- 9) Never load shackles beyond their Safe Work Load Limit.
- 10) Check with the manufacturer as to chemical affects on shackles when using in caustic or acidic environments. Remove shackle from service for chemical pitting on pin or body.
- 11) Check with the manufacturer as to top-end heat range and subsequent loss of rated capacity if involved in high temperature work environment of 600+ degrees F.
- 12) Remove any shackle from service if SWL marking is not legible.

PACIFIC POWER STEAM PLANT

Mr. Jim Smith, Training Supervisor for Pacific Power's Steam Generating Plant in Centralia, WA selected WRRC to conduct a series of classroom and field hands-on rigging courses for 75 millwrights, mechanics and maintenance employees. A highlight of discussions centered around rigging from overhead beams inside the plant which is a typical method for moving pipes and other types of loads. Many illustrations were presented to help the crews understand the proper techniques for safe rigging, as well as some of the consequences of improper rigging. The hands-on portion included the use of Pacific Power's 30 ton Drott with a variety of loads between 2,300 to 14,500 lbs. We wish to thank Mr. Smith along with **Bob Sowers** and **Mike Yates** for their assistance in making this course such a success.

BONNEVILLE POWER ADMINISTRATION

In September, WRRC completed three 8-hour instructional rigging courses for substation maintenance crews in Wenatchee, WA, Spokane, WA and Kalispell, MT. Some of the items covered were a rigger's checklist, affects of shock loads and rigging applications which offer minimum headroom clearance. We appreciate BPA's **Mr. Jim Williams**, Assistant Substation Maintenance Superintendent, for coordinating these programs.

APWA & OTTC

The American Public Works Association and the Oregon Technology Transfer Center will be holding a workshop entitled, **Safety in Public Works, Street and Highway Maintenance**. WRRRC has been invited to deliver a presentation addressing rigging activities, affects of shock loads, rigging geometry and a rigging case study session. Safety harness care, use and inspection will complete WRRRC's program. For more information on this November 12th and 13th conference, please contact: **Ms. Judy Arasmith at (503) 369-2797**.

WEYERHAEUSER PAPER CO.

Mr. John Remmers, Training Coordinator for **Weyerhaeuser Paper Co. in Longview, WA** has asked WRRRC to present a series of courses for pipe fitters, painters and many other trade groups. Some of the programs will address knot tying and splicing, block & tackle rigging and rigging geometry. Also a series of case studies will be analyzed at the conclusion of the all-day program, followed by a hands-on course the next day. Depending on job descriptions, Weyerhaeuser employees will receive 4-10 hours of rigging instruction.

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SHACKLE TIPS

MINING ROPES MANAGEMENT DIVISION

Wire Rope & Rigging Consultants, Inc. President **R. Michael Parnell** announced the establishment of a new company division during the summer stockholders meeting. The development of the company's new **Mining Ropes Management Division** has been a slow but methodical process. The new division began marketing its services September 15, 1987, on a select basis to companies in the strip mining industry.

Some of the MRMD services include warranty claims representation, contracts consultation, machine inspections, rope/yardage analysis, rope disposal and a computerized rope wear tracking system.

Mr. Parnell indicated the division should be able to achieve a significant reduction in the client's annual rope expense as relates to cost per yard of overburden moved. **Inquiries about the availability of the MRMD Program should be directed to: V.P. - MRMD, WRRRC, PO Box 728, Vancouver, WA 98666**

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COMPANIES USING WRRRC TRAINING PROGRAMS (partial list)

Anchorage, Municipality of	Nat. Oceanic & Atmos. Ad.
Assoc. Concrete Products	Oregon-Accident Prev. Div.
Boise Cascade Corp.	Pacific Gas Transmission Co.
Bonneville Power Admin.	Pacific Power & Light
Bridger Coal Company	Pan Am Services- Sub Base
Clackamas County D.O.D.T.	Port of Portland
Crown Zellerbach Corp.	Reynolds Aluminum
E G & G of Idaho	Reynolds Elec. & Eng. Co.
General Electric	Rhone-Poulenc, Inc.
Hercules Aerospace, Inc.	Rockwell Hanford
Hewlett - Packard	Ruralite Services
Homestake Mining Co.	Seattle City Light Co.
Johnson Bros. Const.	Smurfit Newsprint
Jorgensen Steel Co.	S.W.Portland Cement Co.
Kaiser Alum. & Chem. Corp.	Trojan Nuclear
Kansas City Power & Light	U. S. Army
Kenworth Truck Mfg.	U. S. Ecology, Inc.
Kiewit Pacific	Union Carbide Corp.
Lac Minerals, Ltd.	Utah International, Inc.
Lockport Marine	Washington Mechanical Contr.
Longview Fibre Co.	Washington Water Power
Martin Marietta Aerospace	Willamette Industries

Thank You

WRRRC offers a special "thank you" to **Gene and Barbara Marcotte of River Rigging & Supply, Inc.**, and **Andy Ulven of Ulven Forging, Inc. and RopeMaster/SKOOKUM**, for allowing WRRRC to video tape their manufacturing and fabrication procedures. These tapes have been included in our library for general reference.

CIP COURSE - PORTLAND, OR

WRRRC held its **Certified Inspector Program** during October in Portland, OR. Some of the companies who sent participants to the course were **Hercules Aerospace, P & M Coal Co., Colorado-Ute Electric Assn., Omaha Public Power District, Trojan Nuclear, Western Transportation, U. S. Army and E.G.&G. of Idaho**. We wish to thank those who attended and offer our congratulations to those participants who successfully completed all five sections. We extend a special thanks to **Mr. DeVon Beasley**, guest instructor from the **Idaho National Engineering Laboratory**, who presented a special nuclear section which pertained to the D.O.E. inspection standards of wire rope & rigging equipment, crane certification and man-lifts