



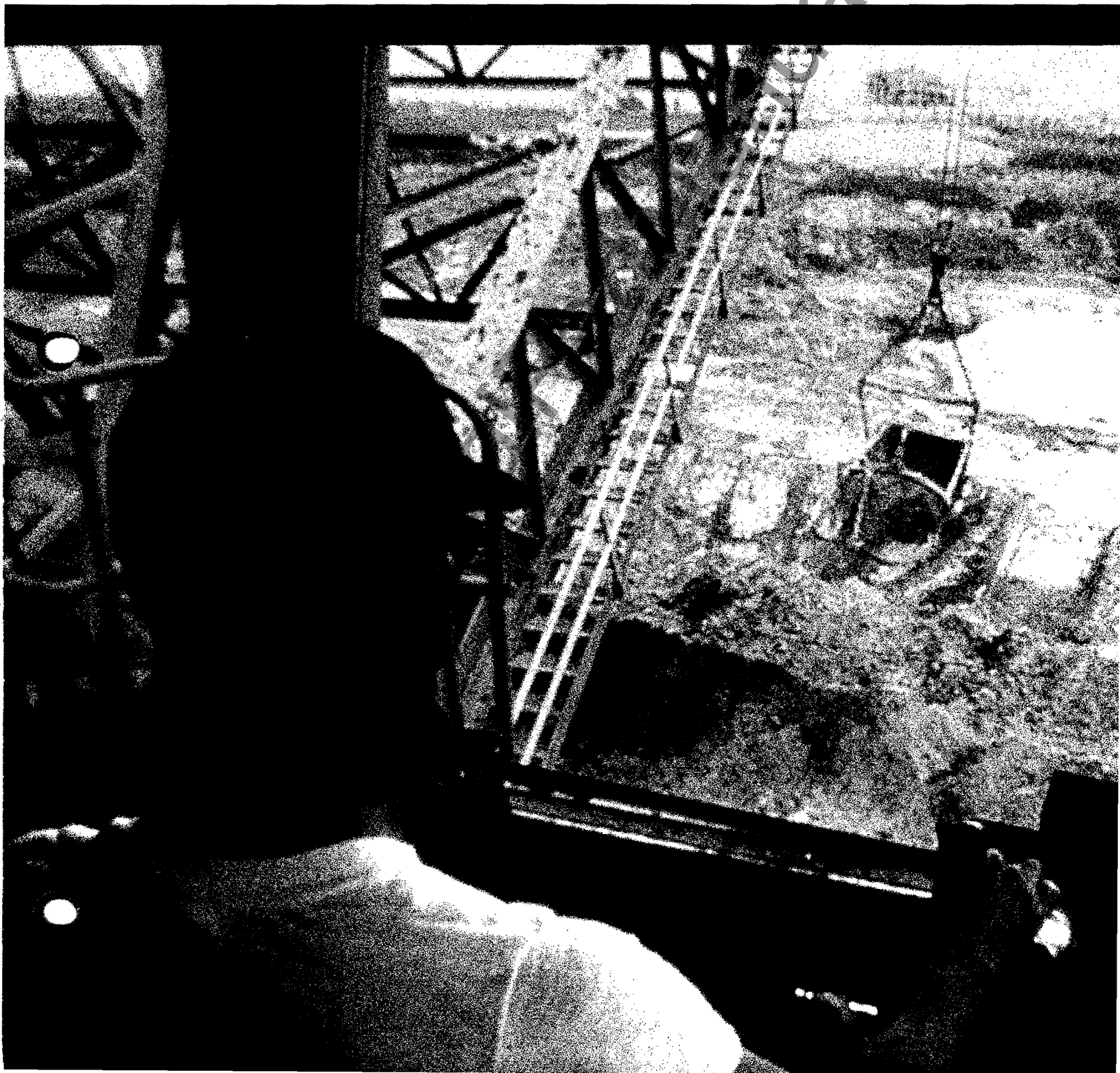
Westinghouse Electric Corporation
Engineering and Instrumentation
Services Division
875 Greentree Road, Bldg. No. 8
Pittsburgh, Pennsylvania 15220

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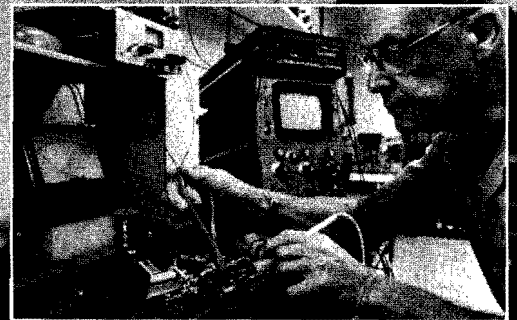
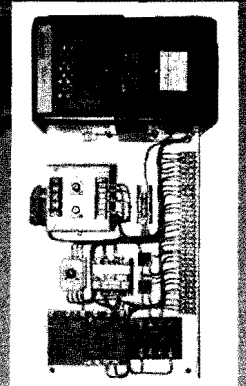
Dragline/Shovel Control Revamp





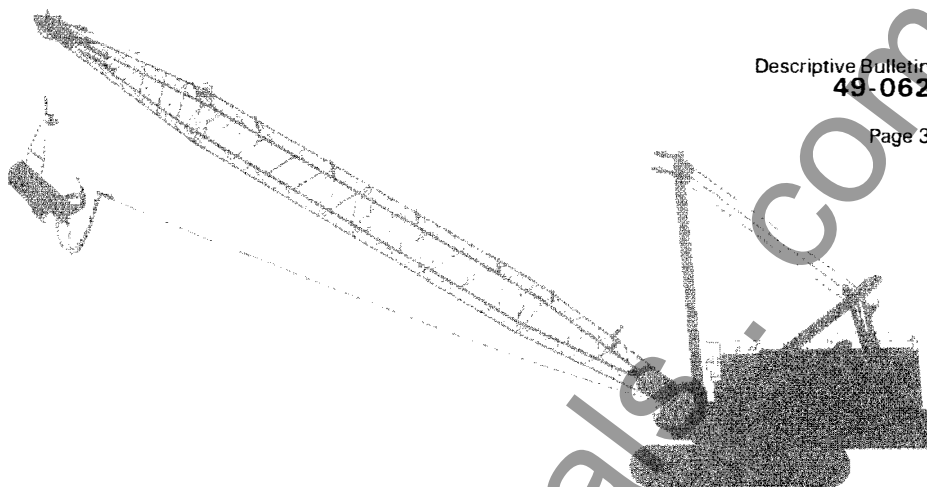
Dragline/Shovel Control Revamp

1. Westinghouse improves control regulators with state-of-the-art components.
2. New components are skillfully assembled in modular configurations.
3. Westinghouse engineers work on-site to assure accurate, timely conversion.



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Innovative Modernization Techniques from Westinghouse Engineering & Instrumentation Services

The Westinghouse Engineering & Instrumentation Services Division (E&ISD) is one of the largest and most experienced industrial service organizations in the nation. With more than 80 fully-staffed Engineering Service Offices throughout the continental U.S., E&ISD has complete local capabilities to provide a wide range of electrical and mechanical equipment services in three broad categories: installation, physical maintenance, and engineering advisory services.

At E&ISD, we have established an ongoing program to identify emerging customer needs, and evolve effective service technologies and procedures to meet them. The Dragline/Shovel Control Revamp is just one of many capabilities we have developed in order to enhance both the quality and scope of service options available to our customers.

Dragline/Shovel Control Revamp by Westinghouse quickly replaces existing regulators with new and more efficient regulators to optimize power output, minimize instability and improve the productivity of your dragline/shovel operations.

Control Revamps for Improved Stability and Added Responsiveness

Original control equipment on vintage draglines and shovels are subject to operating instabilities which can contribute to machine downtime.

Revamping by Westinghouse is achieved through replacement of existing regulators, including Westinghouse M-2 and M3 magnetic amplifiers, F-56 and F-100 pulse position modulators and equivalent General Electric components. Replacement regulators are current production, high-efficiency components in modular configurations with easy plug-in circuit board installation. A complete revamp includes installation of regulators, power supplies, TPM and isolation transformer. In some cases Westinghouse can perform partial revamps, or perform a complete revamp in phases.

If required, Westinghouse can prove the revamped system prior to permanent installation. This is accomplished by leaving the existing control functioning in parallel operation with the new controls. When the operation of the new system has met or exceeded design requirements, one additional shutdown is scheduled to permanently install the new controls. At that time the old control is decommissioned.

Features

Replace vintage regulators with current-production, state-of-the-art components—improves regulator efficiency and response time, and optimizes power output without corresponding overshoot. Minimizes instability and drift. In addition, ready availability of renewal parts reduces maintenance and inventory costs.

Retain existing generators and operator interface—promotes quick installation for faster conversion turnaround.

Uniform replacement configurations—permits standardization of several generations of control components while reducing parts inventory requirements.

Simplified troubleshooting—new control components permit faster identification of problems or malfunctions in control systems. In addition, the problems associated with complex set-up and re-tuning can be eliminated when you revamp with current-production control components.



Westinghouse Engineering Service Locations*

Alabama

Birmingham 35209
133 West Oxmoor Road
Suite 205 205-942-7432

Mobile 36607
3400 Meador Drive 205-473-8642

Arizona

Phoenix 85034
1825 E. Jefferson Street 602-271-9237
Tucson
Refer calls to Phoenix Office

California

Los Angeles (Compton) 90221
18020 S. Santa Fe Ave. 213-537-9250

Colorado

Denver (Englewood) 80110
Unit 3-C
1500 W. Hampden St 303-987-4269

Florida

Tampa 33619
8507 Adamo Drive 813-837-7537

Georgia

Atlanta 30302
1299 Northside Drive, NW
P.O. Box 4808 404-885-5483
Savannah 31402
1899 Louisville Road
P.O. Box 2783 912-236-3066

Idaho

Boise
Refer calls to Salt Lake City Office
Pocatello 83201
2651 Garrett Way 208-234-0110

Illinois

Lansing 60438 (Chicago)
16750 Chicago Avenue 312-895-7721
Peoria 61602
915 North Adams 309-673-0754

Indiana

Evansville
Refer calls to Owensboro Office
Indianapolis 46225
551 West Merrill Street 317-266-1659

Kansas

Overland Park 66210 (Kansas City)
8900 Indian Creek Parkway
Building 6, Suite 200 913-383-6538

Kentucky

Louisville 40208
2605 South Fourth St. 502-636-3736
Owensboro 42301
2900 Kentronics Drive
P.O. Box 887 502-684-0657

Louisiana

Baton Rouge 70821
555 Choctaw Road
P.O. Box 2973 504-343-6631
Lake Charles
Refer calls to New Orleans Office

Monroe 71202
506 South Third Street 313-388-3131

New Orleans (Metairie) 70011
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Suite 118 504-832-9340

Minnesota

Duluth 55802
330 S. First Avenue East 218-727-1541
Minneapolis 55416
3501 S. Highway 100 612-927-2254

Missouri

Kansas City
Refer calls to Overland Park, Kansas Office
St. Louis 63146
2060 Craigshire Road 314-851-9534

Montana

Butte 59701
100 North Parkmont 406-494-3454

Billings

Refer calls to Butte Office

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5301 Central Avenue 505-265-6647

North Carolina

Charlotte 28232
2001 W. Morehead St 704-377-7710
Wilmington
Refer calls to Charlotte Office

North Dakota

Bismarck 58501
1911 Revere Drive 701-258-1097

Ohio

Cincinnati 45237
7710 Reading Road 513-948-7277

Cleveland 44135
4590 West 160th Street 216-267-6405

Marietta 45750
116 Industry Road 614-374-9440

Oklahoma

Tulsa
Refer calls to Kansas City Office

Oregon

Portland 97203
9442 N. Ramsey Blvd 503-221-4479

Pennsylvania

Allentown 18105
540 N. 16th Street 215-437-4255

Johnstown 15905
107 Station Street 814-288-1597

Pittsburgh 15230-1017
One Chatham Center
P.O. Box 1017 412-255-1689

Wilkes-Barre 18702
267 N. Pennsylvania Ave. 717-825-7341

Tennessee

Knoxville/Memphis
Refer calls to Atlanta Office

Texas

Amarillo
Refer calls to Dallas Office

Beaumont
Refer calls to Houston Office

Dallas 75247
8400 John W. Carpenter
Fwy. 214-631-1800

El Paso
Refer calls to Phoenix Office

Houston 77020
5722 Clinton Drive 713-675-9667

San Antonio
Refer calls to Houston Office

Utah

Salt Lake City 84104-5198
1680 S. Redwood Road 801-973-4100

Virginia

Richmond 23224
1001 East Fourth Street 804-232-8949
Roanoke 34016
5 Madison Avenue, NE 703-343-9240

Washington

Seattle 98168
10831 E. Marginal Way,
South 206-292-4047
Spokane 99216
North 3712 Flora Road 509-456-7520

West Virginia

Beckley 25909
Route 21 North
P.O. Box 8 304-255-4121

Fairmont 26554
Route #1
P.O. Box 346B 304-534-5511

Huntington 25701
1029 Seventh Avenue 304-529-3264

Wisconsin

Appleton 54952
1487 Kenwood Center 414-725-8099
Elm Grove 53122 (Milwaukee)
205 Bishops Way
P.O. Box 1000 414-786-0260

Wyoming

Casper 82601
1850 East F Street 307-266-3260
Green River 82935
P.O. Box 462 307-875-4910

*The offices which appear above represent a partial listing of Westinghouse Engineering Service offices located in the United States. For a complete list contact your closest office or call the Westinghouse Engineering Information Center at 800-441-3134. Outside of the continental U.S. call 412-928-2559.

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