

WILLIAMS PATENT CRUSHER & PULVERIZER CO  
MILL INSTALLATIONS

12/15/2010

15:20:47

CLASS=COAL

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AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

1203 3 NW HAMMER MILL 38 0 0.00 0.00 0 4/43  
STATE= TEXAS AGENT= C FRED SAMP  
LOCATION= S W PORTLAND CEMENT PRODUCT= COAL  
EL PASO TX

3/32" OPENINGS

3500 6 JUMBO 48 0 0.00 0.00 0 6/16  
STATE= OHIO AGENT= BILL SIGWARD  
LOCATION= NEW BOSTON COKE CO PRODUCT= COAL  
600 RIVER AVE  
NEW BOSTON OH 45662

NEW OWNER 2/91; NEW BOSTON COKE CO. FORMERLY; EMPIRE DETROIT STEEL CORP.

3633 6 JUMBO 48 0 0.00 150.00 0 8/17  
STATE= OHIO AGENT= BILL SIGWARD  
LOCATION= IRONTON COKE CORP PRODUCT= COAL  
IRONTON OH 45638

REPLACED BY #6 JUMBO S/N 15195 SHIPPED 2/70.

4501 8 JUMBO 48 0 300.00 0.00 0 10/18  
STATE= MICHIGAN AGENT= ENGINEERED SYSTEMS INC  
LOCATION= ROUGE STEEL CO PRODUCT= COAL  
88 HI LINE  
DEARBORN WI 48121

WITH 3/4" OPENINGS, FLYWHEEL, COUPLING

5331 9 JUMBO 48 0 0.00 0.00 0 4/20  
STATE= ILLINOIS AGENT= OPEN  
LOCATION= GRANITE CITY STEEL PRODUCT= COAL  
19TH & EDWARDSVILLE RD  
GRANITE CITY IL 62040

GRIND TO 1/8", 7/16" OPENINGS, FLYWHEEL, COUPLING

5357 9 JUMBO 48 0 0.00 0.00 0 5/20  
STATE= ILLINOIS AGENT= OPEN  
LOCATION= GRANITE CITY STEEL PRODUCT= COAL  
19TH & EDWARDSVILLE RD  
GRANITE CITY IL 62040

GRIND TO 1/8", 7/16" OPENINGS, COUPLING, FLYWHEEL

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5618 NO. 2 DROP BOTTOM COAL CRUSHER 0 0 0.00 0.00 0 12/80  
STATE= ILLINOIS AGENT= OPEN  
LOCATION= AZCON CORP PRODUCT= COAL  
E BROADWAY & HULL LANE  
ALTON IL 62002

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6477 5 JUMBO 48 0 150.00 100.00 900 12/23  
STATE= OHIO AGENT= ROBERTSON EQUIPMENT  
LOCATION= MILL STATUS UNKNOWN PRODUCT= COAL  
9/91 LAST KNOWN OWNER - DIAMOND SHAMROCK.

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9076 8 JUMBO 48 0 275.00 240.00 900 4/34  
STATE= ALABAMA AGENT= CAHABA EQUIPMENT CO  
LOCATION= REPUBLIC STEEL CORP PRODUCT= COAL  
BIRMINGHAM AL 35214

TO REDUCE; CAMEL BACK, 3/4" 14% MOISTURE TO 95% TO PASS 1/8" MESH AT 240 TPH.

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9345 2 HAMMER MILL 30 0 0.00 150.00 900 10/36  
STATE= NEBRASKA AGENT= OPEN  
LOCATION= NEBRASKA POWER CO PRODUCT= COAL  
OMAHA NB

TO REDUCE; COAL TO 1 1/4" AT 150 TPH.

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9681 5 JUMBO 48 0 150.00 80.00 900 12/38  
STATE= OHIO AGENT= ROBERTSON EQUIPMENT  
LOCATION= ERIE COKE & CHEMICAL PRODUCT= COAL  
FAIRPORT HARBOR OH 44077

GRIND 1 1/2"X0 TO -1/8"(90-95%), DIFFICULTY WITH PRODUCT SIZE-RATE

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9733 30 SLUGGER 30 30 0.00 50.00 900 6/39  
STATE= PENNSYLVANIA AGENT= MERDON VENTURES  
LOCATION= HERSHEY FOODS CORP PRODUCT= COAL  
HERSHEY PA

TO REDUCE; BITUMINOUS COAL CRUSHINGS 8" AND SMALLER TO 1/8" DOWN AT 50 TPH.

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10299 20 SLUGGER 30 20 0.00 0.00 0 9/42  
STATE= CALIFORNIA AGENT= WILLIAM POULSEN CO  
LOCATION= H C MUDDOX COMPANY PRODUCT= COAL BITUMINOUS  
SACRAMENTO CA

TO REDUCE; BITUMINOUS COAL 7" FEED SIZE TO A PRODUCT 90% 5/16" MESH AT 50 TPH.

10335 30 SLUGGER 30 30 60.00 40.00 1100 12/42  
STATE= CANADA AGENT= A & M PROCESS EQUIPMENT LTD  
LOCATION= NATIONAL SLAG CO PRODUCT= COAL  
HAMILTON ONTARIO CANADA

TO REDUCE; COAL 1" FEED SIZE TO 90% THRU 5/16" SQ OPENING AT 40 TPH.

10336 30 SLUGGER 30 30 60.00 40.00 1100 12/42  
STATE= CANADA AGENT= OPEN  
LOCATION= NATIONAL SLAG CO PRODUCT= COAL  
HAMILTON ONTARIO CANADA

TO REDUCE; COAL 1" FEED SIZE TO 90% THRU 5/16" SQ OPENING AT 40 TPH.

10380 40 SLUGGER 30 40 100.00 200.00 690 2/43  
STATE= WEST VIRGINIA AGENT= NELSON ENGINEERING  
LOCATION= P P G INDUSTRIES PRODUCT= COAL  
STATE RT 2 MARSHALL COUNTY  
NATRIUM WV 26055

TO REDUCE; MINE RUN COAL TO 2" AND UNDER AT 200 TPH.

10614 2 SLUGGER 24 0 40.00 25.00 1200 11/43  
STATE= CANADA AGENT= OPEN  
LOCATION= DEPT MUNITIONS SUPPLY PRODUCT= COAL  
DEEP BROOK  
CANADA

TO GRIND; COAL TO ABOUT 3/16" AVERAGE SIZE.

10638 20 NF 30 20 60.00 10.00 1800 1/44  
STATE= OKLAHOMA AGENT= RAN LE ASSOCIATES  
LOCATION= EAGLE PICHER CO PRODUCT= COAL ANTHRACITE  
HENRYETTA OK 74437

TO GRIND; COAL, SEMI-ANTHRACITE 1 1/2" FEED SIZE TO 10 MESH.

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10715 30 SLUGGER 30 30 75.00 75.00 1150 9/44  
STATE= CANADA AGENT= OPEN  
LOCATION= ATMUS EQUIPMENT LTD PRODUCT= COAL BITUMINOUS  
TRURO NOVA SCOTIA CANADA  
TO REDUCE; BITUMINOUS COAL TO 90% 3/4" DOWN AT 75 TPH.

10783 1 HELIX SEAL 0 0 5.00 0.60 3600 10/44  
STATE= ILLINOIS AGENT= OPEN  
LOCATION= GRIFFIN WHEEL PRODUCT= COAL  
CHICAGO IL  
TO GRIND; SEA COAL FROM 3/4" FEED SIZE TO 60% 100 MESH.

10795 50GA HAMMER MILL 0 0 125.00 0.00 970 8/45  
STATE= RUSSIA AGENT= OPEN  
LOCATION= U S TREASURY FOR U.S.S.R. PRODUCT= COAL  
TO REDUCE; COAL, NO CAPACITY STATED.

10916 2 SLUGGER 24 0 25.00 30.00 1000 8/45  
STATE= TENNESSEE AGENT= LECORP  
LOCATION= UNION CARBIDE CORP PRODUCT= COAL BITUMINOUS  
OAK RIDGE TN  
TO GRIND; COAL BITUMINOUS, TO 3/4" DOWN.

10954 15 SLUGGER 30 15 0.00 0.00 1200 1/82  
STATE= WASHINGTON AGENT= WEBB PROCESS EQUIPMENT  
LOCATION= WSI PRODUCT= COAL BITUMINOUS  
EAST 6328 UTAH  
SPOKANE WA 99211  
TO REDUCE; COAL BITUMINOUS TO ABOUT 3/16" & FINER, NO CAPACITY STATED.  
NEW OWNER 9/88; WSI OF SPOKANE, WASHINGTON. FORMERLY;  
CASH INDUSTRIES OF IDAHO.

11338 2 SLUGGER 24 0 40.00 20.00 1200 8/47  
STATE= ILLINOIS AGENT= OPEN  
LOCATION= NEFF CONCRETE PRODUCT= COAL BITUMINOUS  
711 SECTION ST  
DANVILLE IL 61832

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11426 15 NF 30 15 0.00 15.00 0 12/47  
STATE= CALIFORNIA AGENT= WILLIAM POULSEN CO  
LOCATION= MILL STATUS UNKNOWN PRODUCT= COAL BITUMINOUS

TO REDUCE; BITUMINOUS COAL, ABOUT 15 TPH TO 8 MESH. 10/91; LAST KNOWN OWNER - AMERICAN INSUL-CHEM/BAKERSFIELD CA COMPANY OUT OF BUSINESS.

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11429 60GA HAMMER MILL 36 60 250.00 150.00 1200 12/47  
STATE= VIRGINIA AGENT= DOMINION-CAROLINA SALES  
LOCATION= WISE COAL & COKE PRODUCT= COAL BITUMINOUS  
NORTON VA

TO REDUCE; BITUMINOUS COAL, AT APPROX. 125 TO 150 TPH.

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11498 106 GP 10 6 3.00 0.20 1800 2/48  
STATE= CANADA AGENT= INPROHEAT  
LOCATION= UNIVERSITY OF ALBERTA PRODUCT= COAL  
EDMONTON CANADA

TO REDUCE; COAL, APPROX 500 LBS/HR TO ABOUT 8 MESH & COARSER.

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11547 1518 GP 15 18 25.00 3.00 1800 2/48  
STATE= TEXAS AGENT= C FRED SAMP  
LOCATION= NATIONAL LEAD PRODUCT= COAL LIGNITE  
BUCHANAN RD  
TEXARKANA TX 75501

TO GRIND; COAL LIGNITE TO 35 MESH. SEE S/N 12218 FOR W13 FAN SHIPPED 6/52. THIS MILL REPLACED BY S/N 17075.

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11580 15 SLUGGER 30 15 0.00 6.00 0 9/48  
STATE= TEXAS AGENT= C FRED SAMP  
LOCATION= WONDERLIFE ENTERPRISES PRODUCT= COAL LIGNITE  
BRYAN TX

TO REDUCE; LIGNITE FROM 10" FEED SIZE TO ABOUT 1" OR SMALLER AHEAD OF DRYER AT 6 OR MORE TPH. COLLECTOR TO HANDLE LIGNITE & QUEBRACHO EXTRACT DUST.

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12040 220 SLUGGER 24 20 0.00 0.00 1150 7/51  
STATE= CANADA AGENT= A & M PROCESS EQUIPMENT LTD  
LOCATION= NORTHERN LIME PRODUCT= COAL  
HWY 17 EAST

BLIND RIVER ONTARIO, CANADA P0R 1B0  
TO GRIND; COAL TO ABOUT 1/8" DOWN. NO CAPACITY STATED.  
7/92 NAME CHG; KOCH MINERALS. FORMERLY; REISS LIME, SAME LOCATION.

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12241 106 GP 10 6 5.00 0.50 1800 8/52  
STATE= KANSAS AGENT= OPEN  
LOCATION= HERCULES AEROSPACE CO PRODUCT= COAL  
35425 WEST 103 ST  
DESOTO KS 66018

TO GRIND; COAL FROM 2 1/2" AND SMALLER FEED SIZE TO ABOUT A 10 MESH PRODUCT.

12393 1512 GP 15 12 25.00 30.00 3600 8/53  
STATE= TENNESSEE AGENT= LECORP  
LOCATION= LAVINO DIVISION PRODUCT= COAL  
CONVINGTON TN

TO GRIND; COAL CINDERS TO 40 MESH IN CLOSED CIRCUIT.

12543 HAMMER MILL LAB 9 2 0.70 0.00 3450 10/54  
STATE= PENNSYLVANIA AGENT= ROBERTSON EQUIPMENT  
LOCATION= PHILADELPHIA ELECTRIC PRODUCT= COAL BITUMINOUS  
PHILADELPHIA PA

TO GRIND; BITUMINOUS COAL, 200 TO 500 LBS/HR TO 1/8".

12998 1512 GP 15 12 25.00 12.00 1800 3/57  
STATE= PENNSYLVANIA AGENT= OPEN  
LOCATION= CONSOLIDATION COAL PRODUCT= COAL  
WASHINGTON PA 15301

TO REDUCE; COAL, 12 TPH 1 1/4" PITTSBURGH #8 TO 1/4" DOWN.

13099 40 SLUGGER 30 40 250.00 0.00 900 5/57  
STATE= KENTUCKY AGENT= LECORP  
LOCATION= AUGSPURGER CONSTRN PRODUCT= COAL BITUMINOUS  
LEXINGTON KY

TO REDUCE; COAL FROM 6" TO 8" TO A NOMINAL 1 1/4" PRODUCT.

13256 230 NF 24 30 60.00 30.00 1800 9/58  
STATE= KENTUCKY AGENT= LECORP  
LOCATION= WISCONSIN STL COAL MINES PRODUCT= COAL  
BENHAM KY

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AA  
TO REDUCE; COAL FROM MINUS 5" FEED TO MINUS 1/4" PRODUCT AT 30 TPH.

13292 220 IMPACTOR 24 20 20.00 10.00 2100 11/58  
STATE= PENNSYLVANIA AGENT= NELSON ENGINEERING  
LOCATION= U S STEEL CORP PRODUCT= COAL  
MONROEVILLE PA  
  
TO REDUCE; COAL FROM 3" TO 90% 1/8" AT 10 TPH.

13469 475C HAMMER MILL REVERSIBLE 44 75 400.00 225.00 720 2/60  
STATE= PENNSYLVANIA AGENT= MERDON VENTURES  
LOCATION= KEYSTONE COKE CO PRODUCT= COAL  
RIVER ROAD  
CONSHOHOCKEN PA 19428  
  
TO REDUCE; COKING COAL FROM -3" FEED TO 80% -1/8" AT 250 TPH.

13619 230 NF 24 30 50.00 40.00 1200 9/60  
STATE= ALABAMA AGENT= CAHABA EQUIPMENT CO  
LOCATION= KOPPERS INDUSTRIES INC PRODUCT= COAL BITUMINOUS  
WOODWARD IRON DIV  
2134 KOPPERS DR  
DOLOMITE AL 35061  
  
TO REDUCE; BITUMINOUS COAL FROM -2 1/2" FEED TO 1/8" AT 40 TPH.

13622 220 RING CRUSHER 24 20 30.00 60.00 800 10/60  
STATE= WEST VIRGINIA AGENT= NELSON ENGINEERING  
LOCATION= MILL STATUS UNKNOWN PRODUCT= COAL  
  
TO REDUCE; 6" COAL TO 2" AT 60 TPH.  
10/91; LAST KNOWN OWNER - BADGER COAL / PHILIPPI, WV.

13625 445W HAMMER MILL REVERSIBLE 44 45 250.00 200.00 720 2/61  
STATE= KENTUCKY AGENT= LECORP  
LOCATION= AK STEEL CORPORATION PRODUCT= COAL BITUMINOUS  
40TH & WINCHESTER AVE  
ASHLAND KY 41105  
  
TO REDUCE; BITUMINOUS COAL, MINUS 2" FEED TO 90% -1/8" AT 200 TPH.

13650 1518 GP 15 18 0.00 4.00 3600 12/60  
STATE= ITALY AGENT= OPEN  
LOCATION= BAROID OF ITALY PRODUCT= COAL LIGNITE  
MILANO ITALY  
  
TO REDUCE; LIGNITE & QUEBRACHO EXTRACT TO 20 MESH AT 4 TPH. SEE S/N 13651.

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AA

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13671 1518 GP 15 18 25.00 1.20 2000 5/61  
STATE= TEXAS AGENT= C FRED SAMP  
LOCATION= C A MCKINLEY & SONS PRODUCT= COAL  
BEAUMONT TX

TO REDUCE; DRY SUB-BITUMINOUS COAL FROM -1/2" FEED TO -40 MESH W/MIN FINES  
AT 1600 TO 2400 LBS/HR. SEE S/N 13672 & 13673.

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13678 240 SLUGGER 24 40 60.00 28.00 1100 4/61  
STATE= KENTUCKY AGENT= LECORP  
LOCATION= STONEGA COKE & COAL PRODUCT= COAL  
GLENBROOK KY

TO REDUCE; COAL & SLATE FROM 6" TO 1" PRODUCT AT 28 TPH WITH TEMPORARY  
SURGES OF 80 TPH.

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13753 220 IMPACT DRYER 24 20 50.00 3.00 1800 1/62  
STATE= WYOMING AGENT= ACRODYNE CORP  
LOCATION= TIM INC PRODUCT= COAL LIGNITE  
GLENROCK WY

TO REDUCE; LIGNITE 24% FREE MOISTURE, FEED SIZE -2" TO 95% MINUS 100 MESH  
WITHOUT HEATING MILL AT 3 TPH. SEE S/N 13754 THRU 13757.

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13785 475 IMPACTOR 44 75 650.00 375.00 1000 8/62  
STATE= PENNSYLVANIA AGENT= NELSON ENGINEERING  
LOCATION= KOPPERS CO INC PRODUCT= COAL BITUMINOUS  
PITTSBURGH PA

TO REDUCE; BITUMINOUS COAL, 340 METRIC (375 SHORT) TONS PER HOUR 10 MESH,  
3/8" HAVING 17% MAX MOISTURE. REDUCE TO 90% -3MM (1/8").

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13823 106 GP 10 6 5.00 0.60 1800 4/62  
STATE= WYOMING AGENT= ACRODYNE CORP  
LOCATION= MURBACK AWARD COMPANY PRODUCT= COAL  
778 C Y AVENUE  
CASPER WY 82601

LAB CRUSHER USED INFREQUENTLY, FEED 5" GRIND TO 1/4", 1/2" OPENINGS.

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13840 475 RIGID ARM 44 75 250.00 800.00 370 8/62  
STATE= CALIFORNIA AGENT= WILLIAM POULSEN CO  
LOCATION= A M KING INDUSTRIES INC PRODUCT= COAL LIGNITE  
2875 FEATHER RIVER BLVD  
OROVILLE CA 95965

TO REDUCE; SUB-BITUMINOUS COAL FROM 3' X 3' X 6" FEED TO A PRODUCT ADJUSTABLE  
BETWEEN 4" AND MINUS 8" AT 800 TPH.  
NEW OWNER 6/98; A M KING IND. FORMERLY; GLENROCK COAL / SHERIDAN, WY.



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13843 360 IMPACTOR 36 60 250.00 450.00 800 7/62  
STATE= WYOMING AGENT= ACRODYNE CORP  
LOCATION= WYODAK RES DEVEL CORP PRODUCT= COAL  
GARNER LAKE RD  
GILLETTE WY 82716

TO REDUCE; SUB-BITUMINOUS COAL FROM 165 TPH OF 8" X 1 1/2" TO -1 1/2" OR 450 TPH OF 8" X 0" FEED TO -1 1/2" PRODUCT.

13884 460 RIGID ARM 44 60 150.00 350.00 400 12/62  
STATE= CANADA AGENT= OPEN  
LOCATION= NEW BRUNSWICK ELECTRIC PRODUCT= COAL BITUMINOUS  
GRAND LAKE GENERATING  
MINTO NB CANADA

TO REDUCE; R.O.M. BITUMINOUS COAL, MAX FEED SIZE 3' X 3' X 4' LG TO 6" AT A FEED RATE OF 350 TPH.

13885 350 IMPACTOR 36 50 200.00 350.00 800 12/62  
STATE= CANADA AGENT= OPEN  
LOCATION= NEW BRUNSWICK ELECTRIC PRODUCT= COAL BITUMINOUS  
GRAND LAKE GENERATING  
MINTO NB CANADA

TO REDUCE; BITUMINOUS COAL SIZE 6" X 0 TO PRODUCT 3/4" X 0 AT 350 TPH.

13886 1518 GP 15 18 15.00 3.00 1800 12/62  
STATE= CANADA AGENT= OPEN  
LOCATION= NEW BRUNSWICK ELECTRIC PRODUCT= COAL BITUMINOUS  
GRAND LAKE GENERATING  
MINTO NB CANADA

TO REDUCE; BITUMINOUS COAL FROM 3/4" TO A NOMINAL PRODUCT 1/8" & FINER AT FEED RATE APPROX 150 LBS/HR IN 1 1/2 MIN.

13983 1518 GP 15 18 30.00 8.00 3600 10/63  
STATE= ILLINOIS AGENT= OPEN  
LOCATION= TRUAX TRAER COAL PRODUCT= COAL  
COFFEEN IL

TO REDUCE; COAL AT 8 TPH.

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14201 240 SLUGGER 24 40 100.00 90.00 1800 11/64  
STATE= WEST VIRGINIA AGENT= NELSON ENGINEERING  
LOCATION= MILL STATUS UNKNOWN PRODUCT= COAL MIDDLINGS SINK

TO REDUCE; COAL, MIDDLINGS OR SINKS -6" FEED TO -2" AT 90 TPH.  
10/91; LAST KNOWN OWNER - BADGER COAL / PHILIPPI, WV.

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14342 1518 GP 15 18 30.00 3.00 3600 5/65  
STATE= TEXAS AGENT= C FRED SAMP  
LOCATION= NATIONAL LEAD PRODUCT= COAL LIGNITE  
BUCHANAN RD  
TEXARKANA TX 75501

PERF 3/16", 72 HAM, 72 HAM, TO -35M BASE, COUP, PAN, #3 SPLIT VALVE

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14364 1512 GP 15 12 15.00 6.00 1800 3/66  
STATE= NORTH CAROLINA AGENT= DOMINION-CAROLINA SALES  
LOCATION= JUNALUSKA MICA CO PRODUCT= COAL BITUMINOUS  
8 JUNALUSKA RD  
ANDREWS NC 28901

2" TO -3/8", 8 HAM, 10 BAR@1/2", 7@1", BASE, COUP

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14546 C 32 RING CRUSHER 24 32 75.00 35.00 900 6/66  
STATE= PERU AGENT= OPEN  
LOCATION= CERRO DE PASCO CORP PRODUCT= COAL  
LIMA PERU

80%COAL 20%COKE 2" TO 90%, 1/8", 22 HAM, 6 BARS @ 1", 4 @  
2",  
2 @ 3", VB DR, GARDS

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14602 215 IMPACTOR 24 15 25.00 0.50 1750 8/66  
STATE= MASSACHUSETTS AGENT= BILL SIGWARD  
LOCATION= AVCO CORPORATION PRODUCT= COAL BITUMINOUS  
LOWELL INDUSTRIAL PARK  
LOWELL MA 01851

1/4" X 10M TO -60M IN C/C, 9 HAM, BASE, VB DR  
NEW OWNER 12/69; AVCO CORP. FORMERLY; RAND DEVELOPMENT.

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15242 111 IMPACTOR 15 11 10.00 1.00 3600 9/70  
STATE= CANADA AGENT= OPEN  
LOCATION= HYDRO ELECTRIC POWER PRODUCT= COAL  
WILLOWDALE ONTATRIO CANADA

TO REDUCE; COAL FROM 1" FEED TO 95% -8 MESH AT 2340 LBS/HR.

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15243 111 IMPACTOR 15 11 10.00 1.00 3600 9/70  
STATE= CANADA AGENT= OPEN  
LOCATION= HYDRO ELECTRIC POWER PRODUCT= COAL  
WILLOWDALE ONTATRIO CANADA

TO REDUCE; COAL FROM 1" FEED TO 95% -8 MESH AT 2340 LBS/HR.

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15416 580 RING CRUSHER 52 80 400.00 2.00 600 12/70  
STATE= WEST VIRGINIA AGENT= NELSON ENGINEERING  
LOCATION= SPROUSE CREEK PROCESSING PRODUCT= COAL BITUMINOUS  
RT 49  
LOBATA WV 25677

TO REDUCE; BITUMINOUS COAL, 59 HARDGROVE UP TO 10% MOISTURE,  
1200 TPH FROM MINUS 12" FEED TO 95% MINUS 1 1/2" PRODUCT.  
NEW OWNER 2/88; SPROUSE CREEK PROCESSING. NOTE; US EQUIPMENT  
BUYS PARTS FOR THEM.

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15575 111 IMPACTOR 17 11 10.00 0.28 3600 2/72  
STATE= CANADA AGENT= OPEN  
LOCATION= HYDRO ELECTRIC POWER PRODUCT= COAL BITUMINOUS  
WILLOWDALE ONTATRIO CANADA

TO REDUCE; BITUMINOUS COAL FROM MINUS 1" FEED TO 95% 8 MESH  
AT 560 LBS/HR.

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15576 111 IMPACTOR 17 11 10.00 0.28 3600 2/72  
STATE= CANADA AGENT= OPEN  
LOCATION= HYDRO ELECTRIC POWER PRODUCT= COAL BITUMINOUS  
WILLOWDALE ONTATRIO CANADA

TO REDUCE; BITUMINOUS COAL FROM MINUS 1" FEED TO 95% 8 MESH  
AT 560 LBS/HR.

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15755 DICR IMPACT DRYER 0 0 0.00 100.00 200 8/73  
STATE= INDIANA AGENT= Q STAR ENTERPRISES LLC  
LOCATION= INLAND STEEL PRODUCT= COAL  
3210 WATLING ST  
EAST CHICAGO IN 46312

SOUTH SYSTEM TO DRY & REDUCE COAL, PREHEAT TO 500F INERT  
ATMOSPHERE

15756 DICR IMPACT DRYER 0 0 0.00 100.00 200 8/73  
STATE= INDIANA AGENT= Q STAR ENTERPRISES LLC  
LOCATION= INLAND STEEL PRODUCT= COAL  
3210 WATLING ST  
EAST CHICAGO IN 46312

NORTH SYSTEM TO DRY & REDUCE COAL, PREHEAT TO 500F INERT  
ATMOSPHERE

15823 30KS RIGID ARM 24 30 75.00 75.00 1200 2/73  
STATE= TEXAS AGENT= RAN LE ASSOCIATES  
LOCATION= NORIT AMERICAS INC PRODUCT= COAL LIGNITE  
3200 UNIVERSITY AVE  
MARSHALL TX 75670

TO REDUCE; LIGNITE LUMPS UP TO 18" TO NOMINAL MINUS 1/2" MIN  
BELOW 4 MESH AT 75 TPH.

15832 1512 GP 15 12 15.00 3.00 1800 1/73  
STATE= NORTH DAKOTA AGENT= OPEN  
LOCATION= UNIVERSITY OF NORTH DAKOTA PRODUCT= COAL LIGNITE  
ENERGY RESEARCH CENTER  
15 N 23RD STREET  
GRAND FORKS ND 58201

TO CRUSH; COAL LIGNITE, MINUS 3" FEED TO MINUS 1/4" AT  
3 TPH. MILL TO OPERATE AT 1800 RPM.

15853 106 GP 10 6 5.00 0.00 4000 4/76  
STATE= TEXAS AGENT= RAN LE ASSOCIATES  
LOCATION= NORIT AMERICAS INC PRODUCT= COAL LIGNITE  
3200 UNIVERSITY AVE  
MARSHALL TX 75670

TO REDUCE; LIGNITE AND CHAR SAMPLES. NO CAPACITY STATED.

WILLIAMS PATENT CRUSHER & PULVERIZER CO  
MILL INSTALLATIONS

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CLASS=COAL

AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

15919 220 NF 24 20 40.00 16.00 1800 8/73  
STATE= MARYLAND AGENT= MERDON VENTURES  
LOCATION= DRAVO CORPORATION PRODUCT= COAL BITUMINOUS  
SPARROWS POINT MD

TO REDUCE; BITUMINOUS COAL -3/4" FEED SIZE TO 90-95% MINUS 8 MESH AT 16 TPH.

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16062 580K2 IMPACTOR 52 80 700.00 1200.0 500 11/73  
STATE= WASHINGTON AGENT= WEBB PROCESS EQUIPMENT  
LOCATION= PACIFIC POWER & LIGHT PRODUCT= COAL BITUMINOUS  
CENTRALIA WA

TO REDUCE; SUB BITUMINOUS, 6" X 0 SIZE TO NOMINAL 1 1/2" AT A RATE OF 1200 TPH.

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16138 30 NF 30 30 125.00 10.00 1800 3/74  
STATE= TEXAS AGENT= RAN LE ASSOCIATES  
LOCATION= TEMPLE IRON & METAL PRODUCT= COAL LIGNITE  
BOX 363 TX  
TEMPLE TX 76501

TO REDUCE; LIGNITE, -1/8" FEED TO 99.7% -20 MESH AT 10 TPH.

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16185 DISPERSER IMPACT DRYER 0 0 200.00 100.00 260 5/74  
STATE= PENNSYLVANIA AGENT= NELSON ENGINEERING  
LOCATION= JONES & LAUGHLIN PRODUCT= COAL  
ALIQUIPPA PA 15001

TO DRY & REDUCE COAL & TO PREHEAT TO 570 DEG F IN INERT ATMOSPHERE; RATED AT 100 TPH. SEE S/N 16186 THRU 16188 FOR ADDITIONAL EQUIPMENT.

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16189 DISPERSER IMPACT DRYER 0 0 200.00 100.00 260 5/74  
STATE= PENNSYLVANIA AGENT= NELSON ENGINEERING  
LOCATION= JONES & LAUGHLIN PRODUCT= COAL  
ALIQUIPPA PA 15001

TO DRY & REDUCE COAL & TO PREHEAT TO 570 DEG F IN INERT ATMOSPHERE; RATED AT 100 TPH. SEE S/N 16190 THRU 16192 FOR ADDITIONAL EQUIPMENT.

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16286 C17 RIGID ARM 24 17 30.00 0.00 750 4/74  
STATE= TEXAS AGENT= RAN LE ASSOCIATES  
LOCATION= NORIT AMERICAS INC PRODUCT= COAL LIGNITE  
3200 UNIVERSITY AVE  
MARSHALL TX 75670

TO REDUCE; LIGNITE, CHARCOAL & BITUMINOUS CHARCOAL. PILOT PLANT; CAPACITY 1/3 OF 30KS AT PLANT.

WILLIAMS PATENT CRUSHER & PULVERIZER CO  
MILL INSTALLATIONS

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CLASS=COAL

AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

16366 40KS RING CRUSHER 30 40 100.00 200.00 900 7/74  
STATE= CALIFORNIA AGENT= WILLIAM POULSEN CO  
LOCATION= RIVERSIDE CEMENT CO PRODUCT= COAL  
19409 NATIONAL TRAILS HWY  
ORO GRANDE CA 92368

TO REDUCE; COAL FROM 2" FEED TO 3/4" PRODUCT AT 200 TPH.

16367 40KS RING CRUSHER 30 40 100.00 200.00 900 7/74  
STATE= CALIFORNIA AGENT= WILLIAM POULSEN CO  
LOCATION= RIVERSIDE CEMENT CO PRODUCT= COAL  
19409 NATIONAL TRAILS HWY  
ORO GRANDE CA 92368

TO REDUCE; COAL FROM 2" FEED TO 3/4" PRODUCT AT 200 TPH.

16368 460 COAL RING CRUSHER 44 60 150.00 600.00 650 5/74  
STATE= KENTUCKY AGENT= LECORP  
LOCATION= TODD COUNTY SALVAGE INC PRODUCT= COAL BITUMINOUS  
2189 W JEFFERSON DAVIS  
ELKTON KY 42220

TO REDUCE: BITUMINOUS COAL 36" & SMALLER FEED SIZE TO NOMINAL MINUS 2" AT 600 TPH. 3/1992 NEW OWNER: TODD CO SALVAGE (ELKTON KY) \* FORMERLY BROWN-BADGETT (ISLAND KY)

16380 490K2 IMPACTOR 44 90 800.00 500.00 900 9/77  
STATE= CANADA AGENT= OPEN  
LOCATION= VANCOUVER FIBER FUELS PRODUCT= COAL  
3 BENTALL CENTER SUITE 1763  
VANCOUVER BC CANADA V7X 1G4

TO REDUCE; COAL (HIGH VOLATILE) 500 TPH, 1 1/2" X 0 FEED, 90% -1/8" PRODUCT. FROZEN COAL 500 TPH, 4" X 0, 90% -1/8".  
NEW OWNER 1/90; VANCOUVER FIBER FUELS. FORMERLY; YOUNGSTOWN SHEET & TUBE. VANCOUVER FIBER WILL USE THIS MILL AND S/N 16381 TO RE GRIND HOG FUEL TO -6" IN C/C WITH 6" SCREEN.

16381 490K2 IMPACTOR 44 90 800.00 500.00 720 9/77  
STATE= CANADA AGENT= OPEN  
LOCATION= VANCOUVER FIBER FUELS PRODUCT= COAL  
3 BENTALL CENTER SUITE 1763  
VANCOUVER BC CANADA V7X 1G4

TO REDUCE; COAL (LOW VOLATILE) 500 TPH, 1 1/2" X 0 FEED, 90% -1/8" PRODUCT. SAME AS S/N 16380.  
NEW OWNER 1/90; VANCOUVER FIBER FUELS. FORMERLY; YOUNGSTOWN SHEET & TUBE. VANCOUVER FIBER WILL USE THIS MILL AND S/N 16380 TO RE GRIND HOG FUEL TO -6" IN C/C WITH 6" SCREEN.

WILLIAMS PATENT CRUSHER & PULVERIZER CO  
MILL INSTALLATIONS

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CLASS=COAL

AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

16454 GP1512 IMPACT DRYER 15 12 20.00 1.00 2160 12/76  
STATE= NEW JERSEY AGENT= OPEN  
LOCATION= MILL STATUS UNKNOWN PRODUCT= COAL BITUMINOUS

TO REDUCE; BITUMINOUS COAL FROM 1 1/2" TO 1/8" X 0, 15% H2O  
TO 3% AT 1 TPH. SEE S/N 16455 THRU 16459 FOR OTHER EQUIP.  
9/91 LAST KNOWN OWNER - CURTISS WRIGHT.

16457 17 BUFFALO EXHAUSTER 17 0 10.00 1.00 3600 12/76  
STATE= NEW JERSEY AGENT= OPEN  
LOCATION= MILL STATUS UNKNOWN PRODUCT= COAL BITUMINOUS

FOR USE WITH GP1512 IMPACT DRYER MILL S/N 16454.  
9/91 LAST KNOWN OWNER - CURTISS WRIGHT.

16731 C12 RING CRUSHER 24 12 20.00 3.70 1800 10/76  
STATE= KENTUCKY AGENT= LECORP  
LOCATION= OLIN CORPORATION PRODUCT= COAL  
DOE RUN KY

TO REDUCE; COMBINED COAL, BOTTOM & FLYASH TO 99% -1/8", 3.75  
TPH. FEED 95% -1/4", MAX 4".

16753 30GA HOG 36 30 100.00 24.00 1200 3/78  
STATE= TEXAS AGENT= C FRED SAMP  
LOCATION= DRESSER MAGCOBAR PRODUCT= COAL TAR  
HOUSTON TX

TO REDUCE COAL TAR PITCH MAX FEED SIZE 15" X 28" AT APPROX  
100# TO NOMINAL 3/4" PRODUCT AT 24 TPH

16822 DICR IMPACT DRYER 0 0 200.00 100.00 260 4/76  
STATE= INDIANA AGENT= Q STAR ENTERPRISES LLC  
LOCATION= KOPPERS COMPANY PRODUCT= COAL  
EAST CHICAGO IN

TO DRY & REDUCE COAL PREHEAT 570 F IN INERT ATMOSPHERE.







WILLIAMS PATENT CRUSHER & PULVERIZER CO  
MILL INSTALLATIONS

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CLASS=COAL

AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

17631 240K2 IMPACTOR 24 40 100.00 60.00 1800 4/81  
STATE= FLORIDA AGENT= PETE LAIDLAW  
LOCATION= FLORIDA POWER CORP PRODUCT= COAL  
15760 WEST POWER LINE ROAD  
WAREHOUSE 295  
CRYSTAL RIVER FL 34428

TO REDUCE; 2" X 0 COAL (VARIOUS TYPES) TO 80% - 90% MINUS  
1/8" AT 60 TPH (PREPARED FEED FOR ROLLER MILLS).

17660 156 GP 15 6 7.50 2.50 2000 6/81  
STATE= OREGON AGENT= WEBB PROCESS EQUIPMENT  
LOCATION= HILDEBRAND MACHINE PRODUCT= COAL ANTHRACITE  
10404 NORTHEAST BARX  
PORTLAND OR

TO REDUCE; 3/4" X 3/16" ANTHRACITY COAL, HARGR #50, 6%  
MOISTURE, TO 90% MINUS 3/16 AT 2.5 STPH.

17680 156 GP 15 6 10.00 1.20 2400 6/81  
STATE= JAPAN AGENT= OPEN  
LOCATION= NISSHO IWAI AMERICAN PRODUCT= COAL  
YOKOHAMA JAPAN

TO REDUCE 2" X 2" X 4" MAX FEED SIZE COAL TO -10MM OR -5MM  
AT 2.4 OR 1.2 TPH  
NAME CHG 7/91; NIHON WILLIAMS CRUSHER. FORMERLY; TAISEI  
KANKYO GIKEN. SAME LOCATION.

17759 1512 GP 15 12 10.00 3.00 1500 4/82  
STATE= UTAH AGENT= ACRODYNE CORP  
LOCATION= UTELITE CORP PRODUCT= COAL  
HWY 32  
COALVILLE UT 84017

TO REDUCE; 1 1/2" X 0 COAL TO -3/8" X 0 AT 6000 LBS/HR FEED  
RATE. MILL TO OPERATE AT 1500 RPM.  
NEW OWNER; UTELITE CORP. FORMERLY; MOUNTAIN FUEL RESOURCES.

17780 230K2 IMPACTOR 24 30 100.00 64.00 1800 4/82  
STATE= CANADA AGENT= OPEN  
LOCATION= WESTAR MINING PRODUCT= COAL  
GREEN HILLS WAREHOUSE  
ELFORD BC CANADA V0B 1H0

TO REDUCE; 1 1/2" COAL TAILINGS WITH 15% MOISTURE MAX, TO  
95% -1.4" IN ONE PASS AT 64 TPH. SEE S/N 17781 FOR LUBE SYS

WILLIAMS PATENT CRUSHER & PULVERIZER CO  
MILL INSTALLATIONS

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CLASS=COAL

AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

17887 GP1512 GP 15 12 20.00 6.00 3600 8/82  
STATE= MISSISSIPPI AGENT= RAN LE ASSOCIATES  
LOCATION= MILL STATUS UNKNOWN PRODUCT= COAL ANTHRACITE

TO REDUCE ANTHRACITE COAL HARDGROVE 45 OR MORE MINUS 1 IN  
FEED SIZE TO 85% MINUS 1/8" AT RATE OF 12000 LBS/HR  
10/91; LAST KNOWN OWNER - CASE MACHINERY SUPPLY / VICKSBERG,  
MS. OUT OF BUSINESS.

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17904 156 GP 15 6 10.00 1.50 3260 11/82  
STATE= OHIO AGENT= OPEN  
LOCATION= ALLIED CHEMICAL CO PRODUCT= COAL  
3330 S 3RD STREET  
IRONTON OH 45638

TO REDUCE MINUS 2" AVG. COAL TO MINUS 1/8" AT 3000 LBS/HR  
FEED IS 50-60 HG, UP TO 12% MOISTURE

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17939 C32 RING CRUSHER 24 32 75.00 140.00 900 6/83  
STATE= IOWA AGENT= OPEN  
LOCATION= BECHTEL CONSTRUCTORS PRODUCT= COAL  
POWERHOUSE GATE 3  
IAAP MIDDLETOWN IA 52638

TO REDUCE 8" COAL WITH 15.5% H2O MAX TO 97% MINUS 1 1/4"  
X 0 AT 140 TPH

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18076 111 IMPACTOR 15 11 15.00 20.00 2500 4/84  
STATE= SOUTH KOREA AGENT= OPEN  
LOCATION= COALQUID INC PRODUCT= COAL  
C/O ANRICO ENGINEERING  
SEOUL KOREA

TO REDUCE; 2 X 0 COAL TO 12% H2O TO 3/8 X 0, 20 TPH FOR  
FEED TO COMET ROLLER MILL.

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18287 30NF IMPACT DRYER 30 30 75.00 10.00 700 2/86  
STATE= TEXAS AGENT= RAN LE ASSOCIATES  
LOCATION= SOUTHWESTERN PUBLIC SERVICE PRODUCT= COAL BITUMINOUS  
AMARILLO TX 79108

TO REDUCE; MINUS 2" WESTERN SUB-BITUMINOUS COAL, 5% SURFACE  
MOISTURE, 50-55 HARDGROVE, TO 99% MINUS 6 MESH, WITH LESS  
THAN 1% MOISTURE, AT A PRODUCT RATE OF 10 TPH. SEE S/N  
18288 THRU 18293 FOR OTHER EQUIPMENT.

WILLIAMS PATENT CRUSHER & PULVERIZER CO  
MILL INSTALLATIONS

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CLASS=COAL

AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

18324 220K2 IMPACTOR 24 20 0.00 40.00 1200 2/87  
STATE= SOUTH KOREA AGENT= CHUNG KI  
LOCATION= SAMSUNG COMPANY LTD PRODUCT= COAL BITUMINOUS  
CHANG WON CITY SOUTH KOREA

TO REDUCE; 40 METRIC TPH, BITUMINOUS COAL, 47-50 HARDGROVE, 10% MAX MOISTURE,  
50MM X 10MM PRESCREENED FEED TO 97% MINUS 10MM PRODU. MILL TO OPERATE @ 1200RPM

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18348 340K2 REV IMPACTOR 36 40 150.00 71.00 1200 10/86  
STATE= PENNSYLVANIA AGENT= MERDON VENTURES  
LOCATION= WPS WESTWOOD GENERATION LLC PRODUCT= COAL ANTHRACITE  
RT 209 SOUTH I-81 EXIT 33  
JOLIETT PA 17981

TO REDUCE; ANTHRACITE REJECT (CLUM) 6" X 0" FEED TO NOMINAL 1" X 0" PRODUCT AT  
71 TPH. SEE S/N 18349 FOR LUBE SYSTEM. 7/93 THIS MILL REPLACED BY 340K2 REV  
IMPACTOR S/N 19333.

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18350 340K2 IMPACTOR 36 40 150.00 71.00 1200 10/86  
STATE= PENNSYLVANIA AGENT= MERDON VENTURES  
LOCATION= WPS WESTWOOD GENERATION LLC PRODUCT= COAL ANTHRACITE  
RT 209 SOUTH I-81 EXIT 33, JOLIETT PA 17981

TO REDUCE; ANTHRACITE REJECT (CLUM) 6" X 0" FEED TO NOMINAL 1" X 0" PRODUCT AT  
71 TPH. SEE S/N 18351 FOR LUBE SYSTEM. 7/93 THIS MILL REPLACED BY S/N 19339.

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18360 340K2 IMPACTOR 36 40 150.00 71.00 1200 9/86  
STATE= PENNSYLVANIA AGENT= MERDON VENTURES  
LOCATION= WPS WESTWOOD GENERATION LLC PRODUCT= COAL ANTHRACITE  
RT 209 SOUTH I-81 EXIT 33  
JOLIETT PA 17981

TO REDUCE; ANTHRACITTE REJECT (CULM) 1" X 0" FEED (AS PREPARED BY S/N 18348 &  
18350) TO 98% MINUS 5000 MICRONS 90% MINUS 2800 MICRONS, 50% MINUS 800 MICRONS  
AND 95% PLUS 30 MICRONS AT 71 TPH EACH. MILL TO OPERATE AT 1200 RPM.  
SEE S/N 18365 FOR LUBE SYSTEM.

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18361 340K2 IMPACTOR 36 40 150.00 71.00 1200 9/86  
STATE= PENNSYLVANIA AGENT= OPEN  
LOCATION= WPS WESTWOOD GENERATION LLC PRODUCT= COAL ANTHRACITE  
RT 209 SOUTH I-81 EXIT 33  
JOLIETT PA 17981

TO REDUCE; ANTHRACITE REJECT (CULM) 1" X 0" FEED (AS PREPARED BY S/N 18348 &  
18350) TO 90% MINUS 5000 MICRONS, 90% MINUS 2800 MICRONS, 50% MINUS 800 MICRONS  
AND 95% PLUS 30 MICRONS AT 71 TPH EACH. MILL TO OPERATE AT 1200 RPM.  
SEE S/N 18366 FOR LUBE SYSTEM.

WILLIAMS PATENT CRUSHER & PULVERIZER CO  
MILL INSTALLATIONS

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CLASS=COAL

AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

18441 GP1512 TURBO-DRYER 15 12 25.00 0.70 3200 10/86  
STATE= CANADA AGENT= OPEN  
LOCATION= NORTHERN LIME PRODUCT= COAL  
HWY 17 EAST  
BLIND RIVER ONTARIO  
CANADA P0R 1B0

TO REDUCE; 1 1/4" X 0" COAL, 5% MOISTURE, 55 HARDGROVE TO 80% MINUS 200 MESH AT 1407 LBS/HR AT 1% MOISTURE. MILL TO OPERATE AT 3200 RPM. SEE S/N 18442 & 18443 FOR OTHER EQUIP.

18447 340K2 IMPACTOR 36 40 250.00 180.00 1200 9/86  
STATE= SOUTH KOREA AGENT= CHUNG KI  
LOCATION= SAMSUNG COMPANY LTD PRODUCT= COAL  
CHANG WON CITY SOUTH KOREA

TO REDUCE; MINUS 50MM (2") COAL, 50 HGI, 10% H2O, TO 95 TO 100% MINUS 15MM (0.6") AT 180 MTPH. MILL TO OPERATE AT 1200 RPM. NOTE; METRIC TPH.

18686 240 NF 24 40 75.00 25.00 1800 7/88  
STATE= CALIFORNIA AGENT= LINK ASSOCIATES INC  
LOCATION= RIO BRAVO JASMIN PRODUCT= COAL BITUMINOUS  
ULTRASYSTEMS WESTERN CONSTR  
11258 PORTERVILLE HWY  
BAKERSFIELD CA 93308

TO REDUCE; 2" X 0" SUB-BITUMINOUS COAL WITH 11% MOISTURE TO 99% MINUS 6350 MICRON, 80% MINUS 1500-2000 MICRON D50 OF 550 TO 800 MICRON AND 10% MINUS 100 TO 180 MICRON AT 25 TPH. RIO BRAVO JASMIN & ULTRASYSTEMS, SAME COMPANY.

18687 240 NF 24 40 75.00 25.00 1800 7/88  
STATE= CALIFORNIA AGENT= ACRODYNE CORP  
LOCATION= RIO BRAVO JASMIN PRODUCT= COAL BITUMINOUS  
ULTRASYSTEMS WESTERN CONSTR  
11258 PORTERVILLE HWY  
BAKERSFIELD CA 93308

TO REDUCE; 2" X 0" SUB-BITUMINOUS COAL WITH 11% MOSITURE TO 99% MINUS 6350 MICRON, 80% MINUS 1500-2000 MICRON D50 OF 550 TO 800 MICRON AND 10% MINUS 100 TO 180 MICRON AT 25 TPH. RIO BRAVO JASMIN & ULTRASYSTEMS, SAME COMPANY.

WILLIAMS PATENT CRUSHER & PULVERIZER CO  
MILL INSTALLATIONS

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CLASS=COAL

AA  
S/N      SIZE/TYPE    DIA WIDTH    HP    TPH    RPM    SHPD  
AA

18688    240 NF    24    40    75.00    25.00    1800    7/88  
STATE= CALIFORNIA    AGENT= LINK ASSOCIATES INC  
LOCATION= RIO BRAVO JASMIN    PRODUCT= COAL BITUMINOUS  
                ULTRASYSTEMS WESTERN CONSTR  
                11258 PORTERVILLE HWY  
                BAKERSFIELD CA 93308

TO REDUCE; 2" X 0" SUB-BITUMINOUS COAL WITH 11% MOISTURE TO  
99% MINUS 6350 MICRON, 80% MINUS 1500-2000 MICRON D50 OF  
550 TO 800 MICRON AND 10% MINUS 100 TO 180 MICRON AT 25 TPH.  
RIO BRAVO POSO & ULTRASYSTEMS, SAME COMPANY.

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18689    240 NF    24    40    75.00    25.00    1800    7/88  
STATE= CALIFORNIA    AGENT= ACRODYNE CORP  
LOCATION= RIO BRAVO JASMIN    PRODUCT= COAL BITUMINOUS  
                ULTRASYSTEMS WESTERN CONSTR  
                11258 PORTERVILLE HWY  
                BAKERSFIELD CA 93308

TO REDUCE; 2" X 0" SUB-BITUMINOUS COAL WITH 11% MOISTURE TO  
99% MINUS 6350 MICRON, 80% MINUS 1500-2000 MICRON D50 OF  
550 TO 800 MICRON AND 10% MINUS 100 TO 180 MICRON AT 25 TPH.  
RIO BRAVO JASMIN & ULTRASYSTEMS, SAME COMPANY.

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18691    C17 RING CRUSHER    24    17    40.00    50.00    900    6/88  
STATE= NEBRASKA    AGENT= PATHFINDERS SYSTEMS INC  
LOCATION= A D C - I LTD    PRODUCT= COAL  
                HWY 6  
                HASTINGS NE 68901

TO REDUCE; 3" TO 5" X 0 COAL WITH A MAXIMUM OF 10% MOISTURE  
AND A HARDGROVE OF 40 OR MORE WILL PRODUCE A NOMINAL MINUS  
1" X 0 PRODUCT AT 50 TPH. MILL TO OPERATE AT 900 RPM.

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18703    240K2 REV IMPACTOR    24    40    150.00    80.00    1800    9/88  
STATE= SOUTH KOREA    AGENT= CHUNG KI  
LOCATION= KANGWON INDUSTRIES LTD    PRODUCT= COAL  
                SEOUL KOREA

TO REDUCE; MINUS 50MM (2") COAL, PRE-SCREENED AT 10MM (0.4")  
40 TO 80 HGI, 8 TO 15% TOTAL WATER, TO 95% OR MORE MINUS  
10MM (0.4"), AT 80 MTPH. MILL TO OPERATE AT 1800 RPM.

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WILLIAMS PATENT CRUSHER & PULVERIZER CO  
MILL INSTALLATIONS

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CLASS=COAL

AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

18747 C17 NO-NIFE HOG 24 17 60.00 20.00 1800 10/88  
STATE= NEVADA AGENT= WILLIAM POULSEN CO  
LOCATION= QUEENSTAKE RESOURCES USA INC PRODUCT= COAL  
JERRITT CANYON PROJECT  
MOUNTAIN CITY STAR ROUTE  
ELKO NV 89801

TO REDUCE: MINUS 2" X 0 COAL WITH A MAXIMUM MOISTURE CONTENT OF 10% AND A  
HARDGROVE OF 45 OR MORE, WILL PRODUCE A -90% TO 95% PROD, 1/8" X 0 AT 20 TPH.  
09/1990 NAME CHG: INDEPENDENCE MINING \* FORMERLY: FREEPORT MC MORAN \* SAME LOC  
04/1999 NAME CHG: ANGLGOLD NORTH AMERICA \* SAME LOC  
09/2003 NAME CHG: QUEENSTAKE RESOURCES USA INC \* SAME LOC

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18840 C32 SLUGGER 24 32 75.00 200.00 1200 6/89  
STATE= PENNSYLVANIA AGENT= NELSON ENGINEERING  
LOCATION= MC GREW WELDING COMPANY PRODUCT= COAL  
OLD MONESSEN HWY  
PRICEDALE PA 15072

TO REDUCE; FEED 6" X 0" CLEAN, DRY COAL APPROX. 60 HGI;  
WILL PRODUCE NOMINAL MINUS 1" PRODUCT AT 150 TO 200 TPH.  
MILL TO OPERATE AT APPROX. 1200 RPM.

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18866 340K2 IMPACTOR 36 40 125.00 0.00 1200 9/89  
STATE= SOUTH KOREA AGENT= CHUNG KI  
LOCATION= SAMSUNG COMPANY LTD PRODUCT= COAL  
CHANG WON CITY SOUTH KOREA

TO REDUCE; 2" X 0" (50MM X 0) COAL, 8% TO 10% H2O, 65 HGI OR  
SOFTER, PRESCREENED AT 10MM TO 95% OR MORE MINUS 8MM (0.31")  
AT 75 MPHT, EST. 99% MINUS 10MM (0.39"), FOR FEED TO CFB  
COMBUSTOR. MILL TO OPERATE AT 1200 RPM.

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18929 240 REV IMPACTOR 24 40 150.00 100.00 1800 2/90  
STATE= SOUTH KOREA AGENT= CHUNG KI  
LOCATION= ULSAN PETROCHEMICAL PRODUCT= COAL  
INDUSTRIAL ZONE  
SOUTH KOREA

TO REDUCE; 2" X 0 (50MM) COAL, 50 HGI, 12% H2O TO 98% MINUS  
1/2" (12MM), 100 MTPH. SOLD WITH S/N 18930.

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WILLIAMS PATENT CRUSHER & PULVERIZER CO  
MILL INSTALLATIONS

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AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

18930 240 REV IMPACTOR 24 40 150.00 100.00 1800 2/90  
STATE= SOUTH KOREA AGENT= CHUNG KI  
LOCATION= ULSAN PETROCHEMICAL PRODUCT= COAL  
INDUSTRIAL ZONE  
SOUTH KOREA

TO REDUCE; 2" X 0 (50MM) COAL, 50 HGI, 12% H2O TO 98% MINUS  
1/2" (12MM), 100 MTPH. SOLD WITH S/N 18929.

18942 230 NF 30 30 50.00 5.00 2000 5/90  
STATE= CHINA AGENT= OPEN  
LOCATION= JACOBS INTERNATIONAL PRODUCT= COAL  
JILIN PROVINCE  
PEOPLES REPUBLIC OF CHINA

TO REDUCE; DRY (LESS THAN 5%) COAL FROM 95% 2" X 20 MM  
(4" MAX) TO NOMINAL 80% MINUS 20 MESH AT 5 TPH.

18943 40NF IMPACT DRYER 30 40 150.00 25.00 1200 6/90  
STATE= PERU AGENT= OPEN  
LOCATION= CEMENTOS NORTE PACASMAYO PRODUCT= COAL  
PACASMAYO PERU S A

TO REDUCE; COAL HAVING A FEED SIZE OF 2" X 0 FREE MOISTURE,  
40 HGI, TO PRODUCE A 98% MINUS 1/8" PRODUCT DRIED TO 2% OR  
LESS FREE MOISTURE AT A FEED RATE OF 25 MTPH WITH APP. 70%  
OF PRODUCT DISCHARGING TO CYCLONE & 30% BOTTOM DISCHARGE.  
SEE S/N 18944 & 18945 FOR OTHER EQUIPMENT.

19080 240K2 REV IMPACTOR 24 40 150.00 80.00 1800 3/91  
STATE= SOUTH KOREA AGENT= CHUNG KI  
LOCATION= SUNKYUNG FIBERS PRODUCT= COAL  
SOUTH KOREA

TO REDUCE; MINUS 50 MM (2") COAL, PRE SCREENED AT 10 (0.4")  
40 TO 80 HGI, 8 TO 15% TOTAL H2O TO 95% OR MORE MINUS 10 MM  
(0.04") AT 80 MTPH. DUPLICATE OF S/N 18703.

19097 340K2 IMPACTOR 36 40 200.00 150.00 1215 5/91  
STATE= MEXICO AGENT= OPEN  
LOCATION= MECANICA DE LA PENA PRODUCT= COAL  
MEXICO

TO REDUCE; COAL, 5% MOISTURE, 53 HGI, 102MM X 40MM TO PRODUCE 97% MINUS  
40MM (1.6%) AT 140 TO 150 TPH. SEE S/N 19098 THRU 19100 FOR ADDITIONAL EQUIP.  
NEW OWNER; MECANIA DE LA PENA. FORMERLY; COMISION FEDERAL DE ELECTRICIDAD.

WILLIAMS PATENT CRUSHER & PULVERIZER CO  
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CLASS=COAL

AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

19098 340K2 IMPACTOR 36 40 200.00 150.00 1215 5/91  
STATE= MEXICO AGENT= OPEN  
LOCATION= MECANICA DE LA PENA PRODUCT= COAL  
MEXICO

TO REDUCE; COAL, 5% MOISTURE, 53 HGI, 102MM X 40MM TO  
PRODUCE 97% MINUS 40MM (1.6%) AT 140 TO 150 TPH. SOLD WITH  
S/N 19097, 19099 & 19100.

19099 340K2 IMPACTOR 36 40 200.00 150.00 1215 5/91  
STATE= MEXICO AGENT= OPEN  
LOCATION= MECANICA DE LA PENA PRODUCT= COAL  
MEXICO

TO REDUCE; COAL, 5% MOISTURE, 53 HGI, 102MM X 40MM TO  
PRODUCE 97% MINUS 40MM (1.6%) AT 140 TO 150 TPH. SOLD WITH  
S/N 19097, 19098 & 19100.

19100 340K2 IMPACTOR 36 40 200.00 150.00 1215 5/91  
STATE= MEXICO AGENT= OPEN  
LOCATION= MECANICA DE LA PENA PRODUCT= COAL  
MEXICO

TO REDUCE; COAL, 5% MOISTURE, 53 HGI, 102MM X 40MM TO  
PRODUCE 97% MINUS 40MM (1.6%) AT 140 TO 150 TPH. SOLD WITH  
S/N 19097, 19098 & 19099.

19117 50KS RING CRUSHER 30 50 250.00 360.00 1000 8/91  
STATE= THAILAND AGENT= OPEN  
LOCATION= ASIA CEMENT PRODUCT= COAL LIGNITE  
THAILAND

TO REDUCE; LIGNITE COAL FROM FEED SIZE MINUS 100 MM, 50 HGI,  
UP TO 12% FREE MOISTURE, TO 95% MINUS 1" PRODUCT AT A RATE  
OF 360 TPH.

19177 350K NO-NIFE HOG 36 50 350.00 250.00 1200 2/92  
STATE= WISCONSIN AGENT= Q STAR ENTERPRISES LLC  
LOCATION= GEORGIA PACIFIC CORP PRODUCT= COAL  
1919 S BROADWAY #10 BOILER  
GREEN BAY WI 54304  
CONSUMER PROD DIV #03-49500

TO REDUCE; 2" X 0 COAL TO 98% MINUS 1/2", 90% MINUS 3/8" AT 250 TPH.  
SOLD W/40KS RIGID ARM ROLL CRUSHER S/N 19178.  
NAME CHG 3/98; FORT JAMES CORP. FORMERLY; FORT HOWARD PAPER / SAME LOC.

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CLASS=COAL

AA  
S/N      SIZE/TYPE    DIA    WIDTH    HP      TPH      RPM    SHPD  
AA

19178   40KS SLUGGER RIGID ARM    30      40      150.00    250.00    350    2/92  
STATE= WISCONSIN    AGENT= Q STAR ENTERPRISES LLC  
LOCATION= GEORGIA PACIFIC CORP    PRODUCT= COAL  
                1919 S BROADWAY #10 BOILER  
                GREEN BAY WI 54304  
                CONSUMER PROD DIV #03-49500

TO REDUCE; NOMINAL MINUS 6" COAL TO 90% TO 95% MINUS 2" PRODUCT AT 250 TPH.  
SOLD WITH 350 SLUGGER S/N 19177.  
NAME CHG 3/98; FORT JAMES CORP. FORMERLY; FORT HOWARD PAPER / SAME LOC.

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19210   215K2 IMPACTOR    24      15      50.00    16.00    1800    8/92  
STATE= JAPAN    AGENT= TECHNIS COMPANY LTD  
LOCATION= MITSUI ENGINEERING AND    PRODUCT= COAL  
                SHIPBUILDING CO LTD  
                6-4 TSUKIJI 5 CHOME  
                CHUO-KU TOKYO 104 JAPAN

TO REDUCE; COAL 8.5 TO 13.5% H2O, MINUS 50MM (2") FEED, 50 HGI, TO  
80% MINUS 5MM (1/4") 15,000 KG/HR (16 STPH) OR PETROLEUM COKE 88.6%  
MINUS 6MM (1/4"), 10.7% TO 11% H2O, 69 TO 96 HGI, TO 80% MINUS 5MM  
IN 1 PASS AT 11,000 KG/HR (12.1 STPH) FOR C.F.B.

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19211   350K2 REV IMPACTOR    36      50      250.00    225.00    1200    2/93  
STATE= MEXICO    AGENT= OPEN  
LOCATION= C. F. E. PETACALLO POWER STA    PRODUCT= COAL  
                MEXICO

TO REDUCE; MOSTLY PLUS 1.6" (40MM) FROM SCREEN AT 225 MTPH MINUS 4" (100MM)  
COAL, TO 10% H2O, 40-50 HGI, TO 97 TO 100% MINUS 1.6" (40MM). SOLD WITH S/N  
19212 350K2 REV. IMPACTOR.

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19212   350K2 REV IMPACTOR    36      50      250.00    225.00    1200    2/93  
STATE= MEXICO    AGENT= OPEN  
LOCATION= C. F. E. PETACALLO POWER STA    PRODUCT= COAL  
                MEXICO

TO REDUCE; MOSTLY PLUS 1.6" (40MM) FROM SCREEN AT 225 MTPH MINUS 4" (100MM)  
COAL, TO 10% H2O, 40-50 HGI, TO 97 TO 100% MINUS 1.6" (40MM). SOLD WITH S/N  
19211 350K2 REV IMPACTOR.

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CLASS=COAL

AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

19216 30 ROCKET 20 30 75.00 11.00 3600 10/92  
STATE= SOUTH DAKOTA AGENT= ACRODYNE CORP  
LOCATION= BENTONITE PERFORMANCE MINERALS  
PRODUCT= COAL  
HWY 212 WEST  
BELLE FOURCHE SD 57717

TO REDUCE; 10 TPH OF COAL (MINUS 6 MESH) AND 1 TPH OF BENTONITE (MINUS 200 MESH)  
BLENDED TOGETHER TO MINUS 40 MESH PRODUCT. 10-98 NAME CHG; BENTONITE PERFORMANCE  
MINERALS. FORMERLY; BENTONITE CORP / SAME LOCATION.

19237 360K2 REV IMPACTOR 36 60 350.00 200.00 1200 12/92  
STATE= SOUTH KOREA AGENT= CHUNG KI  
LOCATION= ULSAN PETROCHEMICAL PRODUCT= COAL  
INDUSTRIAL ZONE  
SOUTH KOREA

TO REDUCE; 2" (50MM) COAL TO 20% H2O, TO 95% TO 98% - 1/2" (12MM) AT  
200 MTPH. ULSAN PETROCHEMICAL ALSO KNOWN AS UPC.

19238 360K2 REV IMPACTOR 36 60 350.00 200.00 1200 12/92  
STATE= SOUTH KOREA AGENT= CHUNG KI  
LOCATION= ULSAN PETROCHEMICAL PRODUCT= COAL  
INDUSTRIAL ZONE  
SOUTH KOREA

TO REDUCE; 2" (50MM) COAL TO 20% H2O, TO 95% TO 98% - 1/2" (12MM) AT  
200 MTPH. ULSAN PETROCHEMICAL ALSO KNOWN AS UPC.

19239 475 IMPACT DRYER 44 75 150.00 0.00 450 8/93  
STATE= CHINA AGENT= OPEN  
LOCATION= SHANGHAI SITCO INTERNATIONAL PRODUCT= COAL  
33 E.1 ZHONG SHAN ROAD  
SHANGHAI CHINA

TO REDUCE; MINUS 4" COAL, 55 HGI OR SOFTER, WITH 55% PASSING 1.12", 10% MAX  
FEED MOISTURE, TO 98% OR MORE PASSING 6MM, 99% OR MORE PASSING 10MM WITH NO  
MORE THAN 10% GENERATED PASSING 100 MESH, WITH PRODUCT DRIED TO 3.5% MOISTURE  
AT TEMPERATURE TO BE 140 DEG F. SEE S/N 19241, 19243, 19245, 19247, 19249 AND  
S/N 19251 FOR ADDITIONAL EQUIPMENT.

19240 475 IMPACT DRYER 44 75 150.00 0.00 450 8/93  
STATE= CHINA AGENT= OPEN  
LOCATION= SHANGHAI SITCO INTERNATIONAL PRODUCT= COAL  
33 E.1 ZHONG SHAN ROAD  
SHANGHAI CHINA

TO REDUCE; MINUS 4" COAL, 55 HGI OR SOFTER, WITH 55% PASSING 1.12", 10% MAX  
FEED MOISTURE, TO 98% OR MORE PASSING 6MM, 99% OR MORE PASSING 10MM, WITH NO  
MORE THAN 10% GENERATED PASSING 100 MESH, WITH PRODUCT DRIED TO 3.5% MOISTURE  
AT TEMPERATURE TO BE 140 DEG F. SEE S/N 19242, 19244, 19246, 19248, 19250 AND  
S/N 19252 FOR ADDITIONAL EQUIPMENT.

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AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

19318 215K2 IMPACTOR 24 15 30.00 10.00 830 6/93  
STATE= NORTH CAROLINA AGENT= DOMINION-CAROLINA SALES  
LOCATION= ALUMINUM CO OF AMERICA PRODUCT= COAL ANTHRACITE  
HWY 740  
BADIN NC 28009

TO REDUCE; CALCINATED ANTHRACITE COAL, 1/2" X 0 FEED SIZE, TO 65 TO 70% MINUS 1/4", 10% MAX MINUS 50 MESH PRODUCT (LAB NO. 9270) AT 10 TPH.

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19333 340K2 IMPACTOR 36 40 150.00 71.00 1200 7/93  
STATE= PENNSYLVANIA AGENT= MERDON VENTURES  
LOCATION= WPS WESTWOOD GENERATION LLC PRODUCT= COAL ANTHRACITE  
RT 209 SOUTH I-81 EXIT 33  
JOLIETT PA 17981

TO REDUCE; 6" X 0 ANTHRACITE CULM TO MINUS 1" X 0 AT 71 TPH. SEE S/N 19334 FOR SPECIAL MODEL E-1 LUBE UNIT. THIS MILL REPLACES S/N 18348.  
NAME CHG 2/01; WPS WESTWOOD GENERATION LLC / SAME LOCATION.

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19339 340 IMPACTOR 36 40 150.00 71.00 1200 7/93  
STATE= PENNSYLVANIA AGENT= MERDON VENTURES  
LOCATION= WPS WESTWOOD GENERATION LLC PRODUCT= COAL ANTHRACITE  
RT 209 SOUTH I-81 EXIT 33  
JOLIETT PA 17981

THIS MILL REPLACES 340K2 REV IMPACTOR S/N 18350.

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19344 1512 GP 15 12 15.00 5.00 1800 8/93  
STATE= KENTUCKY AGENT= LECORP  
LOCATION= CARBIDE INDUSTRIES LLC PRODUCT= COAL  
3204 INDUSTRIAL PARKWAY  
CALVERT CITY KY 42029

TO REDUCE: CALCINATED COAL, 90% MINUS 1/2" FEED (90% PLUS 3/8") TO 100% MINUS 3/8" PRODUCT (MINUS FINES) AT 5 TPH.  
01/2003 NAME CHANGE: CARBIDE INDUSTRIES LLC \* FORMERLY: CARBIDE/GRAPHITE CORP

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19529 40NF SLUGGER 24 40 150.00 25.00 1800 6/95  
STATE= KENTUCKY AGENT= NELSON ENGINEERING  
LOCATION= CQ ENERGY PARTNERS PRODUCT= COAL  
EAST BEND GENERATING STATION  
6293 BEAVER RD RTE 338  
RABBIT HASH KY 41091

TO REDUCE; MINUS 1 1/2" COAL, TO 4% MAX SURFACE H2O, 50 HGI OR SOFTER, TO 90% OR MORE MINUS 20 MESH AT 25 TPH.

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AA  
S/N     SIZE/TYPE                                     DIA WIDTH                     HP     TPH     RPM     SHPD  
AA

19606   C17 RING HAMMER MILL                             24     17     30.00   50.00   600 11/95  
STATE= MICHIGAN                                     AGENT= ENGINEERED SYSTEMS INC  
LOCATION= DOMTAR INDUSTRIES INC                     PRODUCT= COAL  
          1705 WASHINGTON AVE  
          PORT HURON MI 48060

TO REDUCE: 4" X 0 SUB-BITUMINOUS COAL TO MINUS 1 1/2" X 0 AT 50 TPH.  
ORIGINALLY SOLD TO: NORTHERN BOILER \* RETURNED TO WMS FOR S/N 19629.  
09/1996 NEW OWNER: E B EDDY PAPER CO \* SAME LOCATION  
01/2003 NAME CHG: DOMTAR IND INC \* FORMERLY: DOMTAR PAPER \* SAME LOCATION

19608   580 IMPACT DRYER                                     52     80     150.00   50.00   519 6/96  
STATE= MEXICO   AGENT= OPEN  
LOCATION= ALTOS HORNOS DE MEXICO SA                 PRODUCT= COAL  
          PROLONGACION JUAREZ COL LOMA  
          25770 MONCLOVA  
          COAHUILA MEXICO

TO REDUCE; 83% -6 MESH COAL, 10% H2O, 50 HGI OR SOFTER TO 99-100% -5MM (4 MESH)  
& 2% OR LESS H2O, 50 MTPH PRODUCT RATE WITH MAX 30% PASSING 200 MESH, 2:1 TURN  
DOWN FOR B.F. COAL INJECTION. SEE S/N 19609 THRU 19611 FOR ADDITIONAL EQUIP.

19618   60KS SLUGGER   30     60     200.00   150.00   1200 9/96  
STATE= TAIWAN   AGENT= TECHNIS COMPANY LTD  
LOCATION= BAN YU PAPER MILL CO LTD                 PRODUCT= COAL  
          265 MIN LO ROAD  
          PEIKANG YULIN  
          TAIWAN ROC

TO REDUCE; MINUS 2" (50 MM) COAL, 12% MAX H2O, 50 HGI OR SOFTER TO 95%  
MINUS .4" (10 MM) AND EST 99% OR MORE MINUS .6" (15 MM) AT 150 TPH.

19629   C32 RING HAMMER MILL                             24     32     30.00   50.00   600 3/96  
STATE= MICHIGAN                                     AGENT= ENGINEERED SYSTEMS INC  
LOCATION= WESTERN MICHIGAN UNIVERSITY             PRODUCT= COAL  
          1201 STADIUM BLVD  
          KALAMAZOO MI 49008

TO REDUCE; FROZEN COAL FROM 12" LUMPS TO NOMINAL 97% MINUS 1 1/4" X 0  
AT 50 TPH. CUSTOMER RETURNING C17 HOG S/N 19606.  
NEW OWNER 1/01; E B EDDY PAPER INC / PORT HUDSON, MI. FORMERLY; NORTHERN  
BOILER - MICHIGAN UNIVERSITY. 3/02 MILL OWNER UNKNOWN



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AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

19987 230NF IMPACT DRYER 24 30 100.00 6.00 1200 1/ 0  
STATE= TEXAS AGENT= RAN LE ASSOCIATES  
LOCATION= AMERICAN COLLOID CO PRODUCT= COAL  
401 SOUTH PARK DRIVE  
LUFKIN TX 75915

TO REDUCE: 1 1/2" X 1/4" SEA COAL WITH 15% FREE MOISTURE TO 95% MINUS 40 MESH  
DRYED TO APPROX. 5% MOISTURE AT A PRODUCT DISCHARGE RATE OF 6 TPH.  
SEE S/N 19988 THRU 19990 & 19996 THRU 19999 FOR ADDITIONAL EQUIPMENT.

20016 30KS SLUGGER 24 30 55.00 165.00 982 6/ 0  
STATE= HONG KONG AGENT= MHS ENGINEERING (MALAYSIA)  
LOCATION= BRIDGESTONE INC PRODUCT= COAL  
HONG KONG

TO REDUCE; COAL FROM MINUS 75MM (3") FEED SIZE, HAVING A CRUSHER WORK INDEX OF  
12 OR SOFTER, WILL PRODUCE A 90% MINUS 50MM (2") AT 165 MTPH.

20073 40NF IMPACT DRYER 30 40 150.00 10.00 1500 9/ 0  
STATE= GEORGIA AGENT= CAHABA EQUIPMENT CO  
LOCATION= AMERICAN COLLOID CO PRODUCT= COAL  
HWY 96 WEST  
TAYLOR COUNTY INDUSTRIAL PARK  
BUTLER GA 31006

TO REDUCE: 1 1/2" X 1/4" SEA COAL WITH UP TO 15% FREE MOISTURE TO 95% MINUS  
40 MESH DRYED TO APPROXIMATELY 5% FREE MOISTURE AT 10 TPH.  
SEE S/N 20074 THRU 20077 FOR ADDITIONAL EQUIPMENT.

20193 30NF IMPACT DRYER 30 30 100.00 7.50 1200 12/ 1  
STATE= TEXAS AGENT= RAN LE ASSOCIATES  
LOCATION= BAROID DRILLING FLUIDS INC PRODUCT= COAL LIGNITE  
BUCHANAN ROAD  
TEXARKANA TX 75501

TO REDUCE: LIGNITE 1" X 0 FEED SIZE CONTAINING 15% TO 18% MOISTURE (FREE  
FLOWING, NOT STICKY) TO 99% MINUS 30 MESH, 70% MINUS 140 MESH  
PRODUCT OR 99% MINUS 30 MESH, 90% MINUS 200 MESH PRODUCT AT A  
RATE OF 6 1/2 TO 7 1/2 TPH. SEE S/N 20194 & 20195.

11/20/2002 NOTE: NEW MERGER BETWEEN BAROID DRILLING FLUIDS AND USING NAME  
HALLIBURTON ENERGY SERVICES.



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CLASS=COAL  
AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA  
20213 340K W/SLGR HMR HOG 36 40 250.00 75.00 1200 1/ 2  
STATE= WISCONSIN AGENT= Q STAR ENTERPRISES LLC  
LOCATION= FOX VALLEY ENERGY CENTER LLC PRODUCT= COAL  
231 MILLVIEW DRIVE  
NEENAH WI 54956

TO REDUCE: WHEN CONTINUOUSLY & UNIFORMLY FED 2" X 0 UTAH OR P.R.B. COAL AT  
50 P.C.F. WILL PRODUCE A 99% MINUS 1/4" PRODUCT AT 10 TO 75 TPH.  
10/2006 NAME CHG: FOX VALLEY ENERGY - FORMERLY: MINERGY NEENAH - SAME LOCATION

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20272 7120 IMPACT DRYER 72 120 600.00 80.00 1000 5/ 3  
STATE= AUSTRALIA AGENT= OPEN  
LOCATION= HISMELT (OPERATIONS) PTY LTD PRODUCT= COAL  
ABN73 008751317  
LEATH ROAD KWINNANA 6167  
WESTERN AUSTRALIA

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20501 370 SLUGGER 36 70 500.00 164.00 1000 11/ 5  
STATE= INDONESIA AGENT= STIRLING EQUIPMENT & SYSTEMS  
LOCATION= ALSTON POWER INC%KOG TRANSPORT PRODUCT= COAL  
%MULTIMODAL SERV-LOGISTIC PARK  
27711 SOUTH FRONTAGE RD, CHANNAHON IL 60410

CAPACITY & DUTY: WHEN CONTINUOUSLY AND UNIFORMLY FED WITH AVERAGE FREE FLOWING  
SUB-BITUMINOUS COAL, 31 HGI OR SOFTER, OF A MOISTURE CONTENT THAT WILL NOT CAUSE  
PLUGGING IN THE CAGE BARS, NOMINAL FEED SIZE 99% OR MORE PASSING A 50MM (2")  
SQUARE HOLE TEST SIEVE, AT A FEED RATE OF 164 METRIC TONS AN HOUR, WILL PRODUCE  
A NOMINAL PRODUCT 97% OR MORE PASSING A 10MM (3/8") SQUARE HOLE TEST SIEVE.

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20502 370 SLUGGER 36 70 500.00 164.00 1000 11/ 5  
STATE= INDONESIA AGENT= STIRLING EQUIPMENT & SYSTEM  
LOCATION= ALSTON POWER INC%KOG TRANSPORT PRODUCT= COAL  
%MULTIMODAL SERV-LOGISTIC PARK, 7711 SOUTH FRONTAGE RD  
CHANNAHON IL 60410

CAPACITY & DUTY: SAME AS S/N 20501

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20511 5100 IMPACT DRYER 52 100 300.00 60.00 519 9/ 5  
STATE= ENGLAND AGENT= OPEN  
LOCATION= VAI INDUSTRIES UK LTD PRODUCT= COAL  
% PETRASCO SERVICES INC, 1010 GOODNIGHT TRAIL, HOUSTON TEXAS 77060

CAPACITY & DUTY: REDUCE MINUS 10MM (3/8") COAL, TO 10% SURFACE MOISTURE,  
HARDGROVE INDEX 45 OR SOFTER, TO A NOMINAL PRODUCT 99% OR MORE PASSING A 5MM (4  
MESH) SQUARE HOLE TEST SIEVE AT A PRODUCT RATE OF 60 METRIC TONS PER HOUR DRIED  
TO 1% OR LESS SURFACE MOISTURE WHEN OPERATED IN CLOSED CIRCUIT WITH A 5MM (4  
MESH) SCREEN SUPPLIED BY OTHERS. OVERSIZE FROM SCREEN IS ESTIMATED AT 2% TO 5%  
BUT DESIGNED FOR 10% - SEE PROPOSAL Q-040414, FLOW SCHEMATIC 01/25/05, CUSTOMER  
INQUIRY AND CUSTOMER MOTOR SPECIFICATIONS AND CUSTOMER PURCHASE ORDER FOR  
FURTHER. SEE S/N 20512 & 20513 FOR ADDITIONAL EQUIPMENT.

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AA

S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD

AA

20561 40NF IMPACT DRYER 30 40 125.00 10.00 1500 3/ 6  
STATE= CHINA AGENT= K & P SALES ENGINEERING  
LOCATION= VOLCAY INTERNATIONAL PRODUCT= COAL BITUMINOUS  
TIANJIN CHINA

CAPACITY & DUTY: 2" X 0 SUB-BITUMINOUS COAL AT 50 HGI OR SOFTER WITH A  
MAXIMUM MOISTURE CONTENT OF 13% TO 80% MINUS 40 MESH AT  
8% OR LESS MOISTURE AT A DISCHARGE RATE OF 10 TONS PER HOUR.  
SEE S/N 20562 - 20567 FOR ASSOCIATED EQUIPMENT.

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20623 480 IMPACT DRYER 44 80 250.00 20.00 800 9/ 6  
STATE= NORTH DAKOTA AGENT= OPEN  
LOCATION= AMERICAN COLLOID PRODUCT= COAL LIGNITE  
WEST HWY 12  
REEDER ND 58649

CAPACITY & DUTY: WHEN REGULARLY AND UNIFORMLY FED WITH NOMINAL MINUS 2"  
LEONARDITE COAL WITH A HARDGROVE INDEX OF 115 OR HIGHER  
AND UP TO 40% FREE MOISTURE, WILL PRODUCE A 35% MINUS 200 MESH PRODUCT  
DRIED TO 10% MOISTURE AT A DISCHARGE RATE OF 20 TONS PER HOUR.  
SEE S/N'S 20624-20629 FOR ASSOCIATED EQUIPMENT.

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20708 40NF IMPACT DRYER 30 40 0.00 25.00 1200 11/ 6  
STATE= PERU AGENT= OPEN  
LOCATION= CEMENTOS NORTE PACASMAYO PRODUCT= COAL  
PACASMAYO PERU S A

CAPACITY & DUTY: TO REDUCE COAL HAVING A FEED SIZE OF 2" X 0 FREE MOISTURE  
40 HGI TO PRODUCE A 98% MINUS 1/8" PRODUCT DRIED TO 2% OR LESS FREE MOISTURE AT  
A FEED RATE OF 25 MTPH WITH APPROXIMATEDLY 70% OF PRODUCT DISCHARGING TO CYCLONE  
AND 30% BOTTOM DISCHARGE. SEE S/N 20709 FOR LUBE UNIT

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20755 C32 RING CRUSHER 24 32 50.00 75.00 1200 4/ 7  
STATE= NEBRASKA AGENT= LECORP  
LOCATION= THE HASKELL CO PRODUCT= COAL  
% AG PROCESSING INC  
2801 EAST 7TH STREET  
HASTINGS NE 68901

CAPACITY & DUTY: WHEN REGULARLY AND UNIFORMLY FED DRY, FREE FLOWING  
3" X 0 PRB COAL, 50 HGI SOFTER, WILL PRODUCE A NOMINAL  
1" X 0 PRODUCT AT A RATE OF 75 TPH

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AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

20787 GP-1512 GP 15 12 10.00 2.00 2850 3/ 7  
STATE= COLORADO AGENT= K & P SALES ENGINEERING  
LOCATION= MONTGOMERY BUCHL IND INC (MBH) PRODUCT= COAL  
10100 EAST 102ND AVE  
HENDERSON CO 80640

CAPACITY & DUTY: TO REDUCE 2" X 0 DRY, FREE FLOWING COAL TO A 95% MINUS  
1/8" PRODUCT AT 1-1/2 TO 2 TPH.

20803 475 HAMMER MILL REVERSIBLE 44 75 500.00 150.00 1000 11/ 7  
STATE= BULGARIA AGENT= AZ PROCESSTEC  
LOCATION= UNKNOWN CUSTOMER PRODUCT= COAL ANTHRACITE

20805 475 HAMMER MILL REVERSIBLE 44 75 500.00 150.00 1000 11/ 7  
STATE= BULGARIA AGENT= AZ PROCESSTEC  
LOCATION= UNKNOWN CUSTOMER PRODUCT= COAL ANTHRACITE

20878 20NF IMPACT DRYER 30 20 75.00 4.00 1200 9/ 7  
STATE= THAILAND AGENT= OPEN  
LOCATION= VOLCLAY SIAM PRODUCT= COAL  
60/15 MOO3 MABYANGPORN  
PLUAKDAENG, RAYONG, 21140

CAPACITY & DUTY : WHEN REGULARLY AND UNIFORMLY FED WITH NOMINAL 1-1/2"TO 2"COAL  
WITH UP TO 15% MOISTURE WILL PRODUCE A 40% MINUS 200 MESH PRDUCT DRIED TO LESS  
THAN 8%MOISTURE AT A DISCHARGE RATE OF 4 MTRIC TONS PER HOUR  
S/N=20878-1 VBELT WITH GUARD S/N=20878-2 75HP MILL DRIVE MOTOR  
S/N=20878-3 42" CHEVRON S/N=20878-4 8'-0" CYCLONE SEPARATOR  
S/N=20878-5 CYCLONE ROTARY VAVE WITH MOTOR  
S/N=20878-6 EXPLOSION VENTS S/N=20878-7 BAGHOUSE W/EXPLOSION VENTS ROTARY VA  
S/N=20878-8 DUST SYSTEM W/EXPLOSION VENTS

20935 40 IMPACT DRYER 30 40 0.00 10.50 900 2/ 8  
STATE= INDIANA AGENT= DOMINION-CAROLINA SALES  
LOCATION= MESABI NUGGET PRODUCT= COAL  
HOYT LAKES, MN 55750

20985 30NF IMPACT DRYER 30 30 100.00 5.00 1200 11/ 8  
STATE= ARIZONA AGENT= BALL SALES & ENGINEERING  
LOCATION= FREEPORT-MCMORAN MIAMI INC PRODUCT= COAL  
HIGHWAY 60 AND NEW STREET  
CLAYPOOL AZ 85532

CAPACITY AND DUTY: WHEN REGULARLY AND UNIFORMLY FED WITH 1" COAL HAVE A  
HARGROVE INDEX OF 44 OR SOFTER WITH UP TO 7% FREE MOISTURE, WITH PRODUCE A  
99% MINUS 18 MESH PRODUCT DRIED TO LESS THAT 1/2% FREE MOISTURE.

WILLIAMS PATENT CRUSHER & PULVERIZER CO  
MILL INSTALLATIONS

12/15/2010

15:20:51

CLASS=COAL

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AA  
S/N SIZE/TYPE DIA WIDTH HP TPH RPM SHPD  
AA

21072 30KS SLUGGER 30 30 0.00 165.00 1000 0/ 0  
STATE= HONG KONG AGENT= C.A.I. ENGINEERING  
LOCATION= SEEK WAY LIMITED PRODUCT= COAL  
UNIT A 9/F, WORLD TECH CENTRE  
95 HOW MING STREET  
KWUN TONG, KOWLOON HONG KONG

TO REDUCE COAL, MINUS 75MM (3") FEEDSIZE, HAVING A CRUSHER WORK INDEX OF 12 OR  
SOFTER, WILL PRODUCE A 90% MINUS 50 MM (2") AT 165 MTPH.

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21076 360 RING CRUSHER 36 60 250.00 400.00 1180 4/ 9  
STATE= LOUISIANA AGENT= CAHABA EQUIPMENT CO  
LOCATION= B E & K CONSTRUCTION CO LLC PRODUCT= COAL LIGNITE  
201 RED RIVER MINE ROAD  
COUSHATTA LA 71019

THE 360 RING HAMMER MILL, WHEN REGULARLY AND UNIFORMLY FED WITH MINUS 6" LIGNITE  
45 HARDGROVE OR SOFTER, OF A MOISTURE LEVEL THAT WILL NOT CAUSE PLUGGING, WILL  
PRODUCE A NOMINAL PRODUCT PASSING A 2" SQUARE HOLE TEST SIEVE PRODUCT AT  
A RATE  
OF 400 SHORT TONS PER HOUR.

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21120 370 SLUGGER 36 70 500.00 164.00 1000 12/ 9  
STATE= SINGAPORE AGENT= OPEN  
LOCATION= SPARE IN TRANSIT SUMBER SETIAPRODUCT= COAL BITUMINOUS  
MAKMUR  
C/O SOON TAT EXPRESS PTE LTD  
37 TANNERY LANE #01-05  
TANNERY HOUSE 347790  
SINGAPORE

WHEN CONTINUOUSLY AND UNIFORMLY FED WITH AVERAGE FREE FLOWING SUB-BITUMINOUS  
COAL, 30 HGI OR SOFTER, OR A MOISTURE CONTENT THAT WILL NOT CAUSE PLUGGING IN  
THE CAGE BARS, NOMINAL FEED SIZE 99% OR MORE PASSING A 50 MM (2") SQUARE HOLE  
TEST SIEVE, AT A FEED RATE OF 164 MTPH, WILL PRODUCE A NOMINAL PRODUCT 97% OR  
MORE PASSING A 10 MM (3/8") SQUARE HOLE TEST SIEVE. (SAME AS 20501 & 20502).

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END OF REPORT