

APPROVAL AND CERTIFICATION CENTER
 INTRINSICALLY SAFE EVALUATIONS
 1980 - PRESENT

<u>I.S. NUMBER</u>	<u>COMPANY</u>	<u>DATE</u>	<u>DESCRIPTION</u>
IA250	GRAD-LINE INC. TRANSFERRED TO EIMCO-CMD	06/02/80	MDLS. 648, 648A, 648B RADIO REMOTE CTRL SYSTEM
IA276	LEE NORSE CO. TRANS- FERRED TO LONG-AIRDOX	01/14/80	REMOTE CONTROL PANELS
IA279	HAUHINCO TRADING LTD.	03/09/82	MDL. EHP-3K R, SERVO- AMPLIFIER CONTROL ASSY.
IA282	MOOG INC.	01/31/80	MDL. 130 RADIO CONTROL SYSTEM
IA287	LEE NORSE CO. TRANS- FERRED TO LONG-AIRDOX	01/21/80	REMOTE CONTROL CIRCUIT
IA291	BRITISH JEFFREY DIAMOND	06/04/80	MDL. CH17 CONTROL SYSTEM
IA293	COMTROL CORP.	10/23/80	MOTOR MOUTH CARRIER UNIT
IA294	COMTROL CORP.	06/04/80	MDL. FD1501 FIRE DETECTION SYSTEM
IA301	GENERAL ENERGY DEVELOPMENT CORP.	05/27/8	MDL. GBS 5600 ELECTRONIC PHOTOGRAPHIC FLASH UNIT
IA306	DOWTY CORP. TRANS- FERRED TO MECO INTL. TRANSFERRED TO JOY	05/29/80	LONGWALL CHOCK CONTROL SYSTEM, TYPE 07

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IA309	DOWTY CORP. TRANS- FERRED TO MECO INTL. TRANSFERRED TO JOY	06/24/80	LONGWALL CHOCK CONTROL SYSTEM, TYPE 06
IA311	LINE POWER MFG. CORP.	10/06/80	PART # 17-0076 PWR SUPPLY
IA315	GRAD-LINE INC. TRANS- FERRED TO EIMCO CMD	08/29/80	MDL. 650 RADIO REMOTE CONTROL SYSTEM
IA316	GRAD-LINE INC. TRANS- FERRED TO EIMCO CMD	05/28/81	MDL. 631A AND MDL. 631B REMOTE CONTROL SYSTEMS
IA318	FMC CORP.	10/06/80	CONTROL SYSTEM
IA320	MATRIC LIMITED	10/06/80	POWER SUPPLY
IA327	MATRIC LIMITED	05/07/81	ROOF BOLTER CONTROL SYSTEM
IA328	TURNER-KENTON INC.	03/19/81	MDL. 101-MC REMOTE CONTROL UNIT
IA330	FOSTER-MILLER ASCS.	06/08/81	IS INSTRUMENTATION SUBSYSTEM
IA332	MATRIC LIMITED	07/30/81	TRACTION/MINER CONTROL SYSTEM
IA335	ANDERSON STRATH- CLYDE TRANSFERRED TO ANDERSON MINING SERVICES, INC. TRANS TO LONG AIRDOX LTD.	10/01/81	MDL. CS.12RA RADIO RECEIVER

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IA336	VICTOR PRODUCTS LTD.	11/30/81	MDL. ISL-3 LIGHTING SYSTEM
IA340	GRAD-LINE INC. TRANS-FERRED TO EIMCO CMD	12/09/81	MDL. RC640 RADIO REMOTE CONTROL SYSTEM
IA342	MATRIC LIMITED	03/31/82	MDL. 500-98, 12V, DC, ELECTRONIC AUDIO ALARM
IA343	MATRIC LIMITED	04/23/82	MD. 500-104 POWER SUPPLY AND DATA COUPLER
IA346	PYOTT-BOONE ELECTRONICS	04/15/82	MDLS. 240, 244, 251, HEAT DETECTION SYSTEMS
IA353	MATRIC LIMITED	05/10/82	MDL. 500-103 SERIAL REMOTE STATION
IA355	ANERSON STRATH-CLYDE TRANSFERRED TO ANDERSON MINING SERVICES LIMITED TRANS TO LONG AIRDOX LTD.	07/30/82	MDL. CS-15 PRE-START WARNING SYSTEM
IA358	MATRIC LIMITED	09/13/82	MDL. 205-104 POWER SUPPLY
IA359	MATRIC LIMITED	12/03/82	MDL. 204-102 S.D.R.C. MULTIPLEXER
IA360	P-Q CONTROLS INC.	09/18/85	VALVE CONTROL UNITS
IA364	U.S. BUREAU OF MINES	09/27/82	MDL. 7960 ROOF BOLTER INSTRUMENTATION

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IA365	SMC ELECTRICAL PRODUCTS	09/30/82	SERV-IS-LITE MACHINE MOUNTED FLUORESCENT LIGHTING SYS
IA366	SMC ELECTRICAL PRODUCTS	02/17/83	REMOTE IS CONTROL SYSTEM
IA367	U.S. BUREAU OF MINES	10/08/82	MDL. VF TRAPPED MINER TRANSMITTER RECEIVER
IA368	MITSUI MIIKE	10/15/82	MRE11-X1 TYPE RECEIVER EQUIP
IA369	COMTROL CORP.	11/24/82	MDL. PS106 (P/N PS 1510) POWER SUPPLY WITH BATTERY BACKUP (13.7 TO 12.0 VDC)
IA371	SALFORD ELEC. INST. LTD.	11/03/82	TYPE MRD 78000 COAL THICKNESS INDICATOR
IA372	SMC ELECTRICAL PRODUCTS	11/12/82	MDL. C1570 RELAY ASSY
IA373	SIEMENS CORP. INC.	12/14/82	COAL PLOW CTRL SYS
IA374	GRAD-LINE INC. TRANS-FERRED TO EIMCO CMD	12/20/82	MDL 651 RADIO REMOTE CTRL SYS
IA375	B & B ELECTRICL MFG.	02/16/83	MDL. DFA9 DIGITAL FIRE ALARM SYSTEM
IA383	EICKHOFF AMERICA CORP.	06/02/83	NM-51 INTRINSICALLY SAFE POWER SUPPLY

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IA391	ENERGETICS SCIENCE	10/31/83	MDL. 5001-PGF CO GAS MONITOR HEAD
IA392	KLOECKNER-BECORIT NORTH AMERICA	11/21/83	MDL. P8023 SOLENOID VALVE CTRL
IA395	SMC ELECTRICAL	11/23/83	LIFEGUARD REMOTE RELAY
IA400	MINE SAFETY APPLIANCES CO.	02/13/84	MDL. 3 CARBON MONOXIDE SENSOR ASSY.
IA404	MITSUI MIIKE	03/12/84	MDL. MCUX-01-US CONTROL CIRCUIT
IA407	WORMALD INTL ELECTRONICS	03/29/84	BECON C12B ANALOGUE IONISATION SMOKE DETECTOR
IA408	MECO INTL TRANSFERRED TO JOY	04/06/84	CHOCK CTRL SYS TYPE MS2
IA411	HEMSCHEIDT AMERICA CORP. TRANSFERRED TO MTA	06/08/84	HETRONIC 200 HYDRAULIC VALVE CTRL SYS
IA416	ABEX CORP TRANSFERRED TO DENISON HYDRAULICS	08/03/84	MDL. 1900 AB TRAM CTRL
IA418	SMC ELECTRICAL PRODUCTS	08/23/84	MDL. DC-2 POWER SUPPLY
IA420	ANDERSON MAVOR TRANS TO LONG AIRDOX LONGWALL	08/29/84	MDL. DB1 SHUNT DIODE PROTECTIVE BARRIER ASY.

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IA421	ANDERSON STRATH- CLYDE TRANSFERRED TO ANDERSON MINING SERVICES TRANS TO LONG AIRDOX LTD.	09/07/84	MDL. IPS-1 ISOLATED POWER SUPPLY
IA423	MOOG INC.	09/27/84	RADIO/TETHER CTRL SYS
IA424	ANDERSON STRATH- CLYDE TRANSFERRED TO ANDERSON MINING SERVICES TRANS TO LONG AIRDOX LTD.	10/01/84	MDL. DTX-1 DATA TRANSMITTER ASY.
IA425	TRANSAMERICA DELAVAL, INC. TRANSFERRED TO IMO INDUSTRIES INC.	11/02/84	MDL. 74612 PROTECTIVE BARRIER
IA426	MATRIC LTD.	11/02/84	MDL. 500-180 DATA RECORDER
IA427	GULLICK DOBSON, INC. TRANSFERRED TO JOY	11/30/84	TYPE 360101 ROOF SUPPORT CTRL SYS
IA429	WESTFALIA MINING PROGRESS TRANS. TO MTA	04/16/85	PANZERMATIC E ROOF SUPPORT CTRL SYS
IA430	OCENCO INC. PEP97A-LC, PEP02A-CM, PEP 5/6A-CM POWER SUPPLIES	01/03/85	MDLS. PEP07A-CM, PEP02A-CM, PEP 5/6A-CM POWER SUPPLIES
IA431	EICKHOFF	01/09/84	MDL. iSW96/US & iS06B/US CTRL SYS

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IA434	MOOG	02/07/85	RADIO CTRL SYS
IA435	MATRIC LTD.	03/06/85	MD. 500-143 DATA LOGGER REMOTE STATION
IA437	ANDER STRATH- CLYDE TRANSFERRED TO ANDERSON MINING SERVICES TRANS TO LONG AIRDOX LTD.	03/14/85	MDL. PSW 1 PRE-START WARNING SYSTEM
IA438	DOWTY HYDRAULIC UNITS LTD	04/11/85	MDL. 1481.000.00 VALVE CTRL SYS
IA439	MINE SAFETY APPLIANCES CO.	04/03/85	MDL. DAN 6000 ALARM UNIT
IA440	REXROTH WORLDWIDE HYDRAULICS	04/18/85	12 V, PROPORTIONAL SOLENOID AND CRL CIRCUIT
IA441	ANDERSON ELECTRIC CONTROLS, INC.	05/07/85	MDL. 3492 BARRIER WITH RESOLVER POSITION DISPLAY
IA444	BWI EAGLE	08/28/85	MDL. 10-7034 PROXIMITY MOTION SENSOR
IA445	MATRIC LTD.	07/17/85	MDL. 500-174 R.F. RECEIVER
IA446	BWI EAGLE	08/28/85	MDL. 10-7072 IS ZENER BARRIER
IA447	GEOPHYSICS UNIT NALT. COAL BOARD	08/14/85	MDL. MRD 96700 SHOT SIGNAL COUPLER

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IA448	KLOECKNER-BECORIT NORTH AMERICA, INC. TRANSFERRED TO MTA	07/03/86	MDL. KB-MPS4 LONGWALL SHIELD CTRL SYS
IA449	JEFFREY MINING MACHINERY DIV	09/09/85	MDL. TR-1000 TORQUE READ-OUT SYSTEM
IA454	DOWTY CORP. TRANSFERRED TO JOY	07/18/86	MDL. RS2M41 INSITE MONITORING SYS
IA455	SCOTT AVIATION	02/24/86	MDL 4000 METHANE SENSOR
IA457	MATRIC LTD.	09/25/85	MDLS. 500-200 AND 500- 201 S.D.R.C. DEMULPLEXER PANELS
IA458	ULTRA HYDRAULICS LT.	10/17/86	MDL. 4311.000/999.05 VALVE CTRL SYS
IA460	MATRIC LTD.	09/30/85	MDL. 205-376 CTRL MULTIPLEXER
IA461	MATRIC LTD.	11/01/85	MD.S 500-194 AND 500- 203 RECEIVER SYSTEMS
IA462	GENERAL ENERGY DEVELOPMENT CORP TRANSFERRED TO KOEHLER MFG. CORP.	11/07/85	MDL. LX1200BM ELECTRONIC BARRIER
IA466	SMC ELECTRICAL PRODUCTS	03/06/86	I.S. CONTROL SYSTEM
IA471	BRITISH JEFFREY DIAMOND, LTD.	12/24/86	MDL. CH21/1 CTRL AND MONITORING SYSTEM

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IA477	MATRIC LTD.	04/23/86	MDL. 500-198 CURRENT LOOP ISOLATOR
IA481	MATRIC LTD.	06/06/86	MDL. 500-199 SENSOR ISOLATOR
IA482	MATRIC LTD.	03/06/86	MDL. 205-375 PROXIMITY SENSOR, HALL EFFECT
IA484	PYOTT-BOONE ELECTRONICS	02/14/86	FIRE DETECTION SYSTEM INTERFACE UNIT
IA485	AMERICAN MINING ELECTRONICS	02/28/86	MDL. 8000 ROBOTIC LONGWALL CTRL SYS
IA487	REXROTH WORLDWIDE HYDRAULICS	04/08/86	MDL. E-3SE4 SOLENOID CTRL CIRCUIT
IA497	PINE INSTRUMENT CO.	08/13/86	MDL. AG02ISPS, 12VDC, POWER SUPPLY WITH CTRL RELAY
IA503	PYOTT-BOONE ELECTRONICIS CO.	10/27/86	MDL 915 CABLE LENGTH MONITOR
IA508	JEFFREY MINING MACHINERY DIV.	12/07/87	MDL. DM-1000 DATA MONITOR SYS.
IA510	INDUSTRIAL SCIENTIFIC CORP.	11/26/86	MDL. CO SENTINEL CARBON MONOXIDE MONITOR
IA512	ANDERSON MAVOR TRANS TO LONG AIRDOX LONGWALL	12/31/86	MDL. EST-2 ENDSTATION CTRL UNIT

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IA513	ANDERSON MAVOR TRANS TO LONG AIRDOX	09/02/86	MDL. EST-3 ENDSTATION
CTRL UNIT	LONGWALL		
IA517	MATRIC LTD.	10/07/86	MDL. 500-235 POWER SUPPLY/INTERFACE MODULE
IA518	MATRIC LTD.	10/17/86	MODL 500-236 CURRENT LOOP MODULATOR MODULE
IA519	MATRIC LTD.	10/17/86	MDL. 500-214 HAND HELD REMOTE STATION
IA520	MATRIC LTD.	05/19/87	MDL. 500-213 SPEAKER INTERFACE MODULE
IA521	JEFFREY MINING MACHINERY DIV.	07/21/87	MDL. DRC-4000 SAFETY SYS
IA522	KLOECKNER-BECORIT NORTH AMERICA, INC. TRANSFERRED TO MTA	12/30/86	MDL. KB-MPS4A LONGWALL SHELD CTRL SYS
IA523	MITSUI MIIKE MACHINERY CO., LTD.	03/09/87	MDL. MCU 1734-X1 SPEED CTRL INPUT SYS
IA524	MITSUI MIIKE MACHINERY CO., LTD.	01/23/87	MDL. MRE14-X1-CP RADIO REMOTE CTRL SYS
IA525	PRECISION DESIGN, INC.	06/08/87	MDLS. IS.R.-01 AND I.S.R.-01-A, INTRINSICALLY SAFE RELAY ASY.

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IA526	LINE POWER MFG. CORP.	10/17/86	MDL. C-16556-S PLOW INDICATOR/CTRL SYS
IA530	RUDOLF HAUSHERR & SOHNE GMBH & CO. KG	05/14/87	MDL. H-3K-EVS PUMP CTRL UNIT
IA532	REL-TEK CORP.	03/09/87	MDL. GASBOSS METHANE SENSOR
IA536	CONOCO, INC. TRANS- FERRED TO CONSOLIDATION COAL	05/22/87	MDL. UHHC1 UNIVERSAL HAND HELD CONTROLLER
IA547	ANDERSON MAVOR TRANS TO LONG AIRDOX LONGWALL	09/30/87	MDL. SCU3 SPEED CTRL SYS
IA549	INFERSOLL RAND TRANSFERRED TO LONG-AIRDOX	02/10/88	CM-3042 RADIO REMOTE CTRL.
IA552	KLOECKNER-BECORIT NORTH AMERICA TRANSFERRED TO MTA	01/07/88	CCM MOBILE CONVEYOR CTRL SYS
IA554	D. M. ENTERPRISES, INC. TRANSFERRED TO WESTFALIA MINING PROGRESS TRANSFERRED TO MTA	12/17/87	MDL. DME 1987 MACHINE CONTROL
IA557	MITSUI MIIKE MACHINERY CO., LTD.	03/22/88	MDL Z1080-197-11 SHEARER CTRL UNIT

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IA561	KOEHLER MFG. CO.	12/21/87	MDLS. RD-315-1, RD-315-2, RD-315-3 LEAD-ACID MINE LAMP BATTERIES
IA563	SIEMENS CORP.	11/23/87	MDL. B2555 RADIO REMOTE CTRL RECEIVER SYS
IA566	REL TEK	01/04/89	SX BARRIER SG, SH, SL
IA569	CONSOLIDATION COAL	11/25/88	MDL. BAM LONGWALL PRE-START ALARM
IA572	PINE INSTRUMENT CO.	11/24/89	MDL. 00571390-3632 JOY DIAGNOSTIC SYS
IA573	COMTROL CORP.	02/24/88	MDL. CU106 TELEPHONE COUPLER
IA574	REXROTH CORP.	04/26/89	MDL. GE35-2-A SOLENOID VALVE CTRL CIRCUIT
IA575	REXROTH CORP.	04/26/89	MDL. GE45-2-1 SOLENOID VALVE CTRL CIRCUIT
IA576	AMERICAN BARMAG TRANSFERRED TO TIEFENBACH GMBH	01/03/89	TIEFENBACH COMPEX MDL 1 CTRL CIRCUIT
IA577	LINE POWER MFG. CORP.	04/27/88	MDL. RM-102 REMOTE RELAY
IA579	NEI MINING	03/03/89	MDL. MPU100 FACE SIGNALING SYS

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IA581	EIMCO CMD	05/27/88	MDL. 1610009 I.S. SOLENOID SYS
IA583	GULLICK DOBSON INC. TRANSFERRED TO JOY	08/18/88	TYPE 360110 ELECTROFLEX ROOF SUPPORT CTRL SYS
IA585	MINING PROGRESS, INC. TRANSFERRED TO MARCO, NORTH AMERICA, INC.	01/20/89	PANZERMATIC-M2 ROOF SUPPORT CTRL SYS
IA586	AMERICAN BARMAG TRANSFERRED TO TIEFENBACH	09/26/89	MDL. iS106 SHIELD SUPPORT CTRL SYS
IA588	EIMCO CMD	01/06/89	MDL. 1610056 SOLENOID CTRL SYS.
IA600	HEINTZMANN CORP. TRANSFERRED TO STREBTECHNIK BOCHUM GMBH	08/30/90	MDL. BESY E-N ROOF SUPPORT CTRL SYS
IA601	SIMMONS-RAND CO. TRANSFERRED TO LONG-AIRDOX	02/10/89	MDL. 011454 VALVE CTRL CIRCUIT
IA603	STOALR INC., TRANS- FERRED TO CONSPEC CTRLS	06/23/89	FAR-1 ANTENNA AND CAPACITOR BARRIER
IA606	MOOG	08/29/89	MDL. B44479 RADIO RECEIVER
IA607	EIMCO CMD	12/01/89	MDL. 1610091 TRAM SWITCH CTRL CIRCUIT
IA608	EIMCO CMD	05/29/90	MDL. 1210157 PANIC BAR INTERLOCK

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IA615	WESTFALIA MINING PROGRESS TRASNFERRED TO MTA	10/20/89	GEARBOX OVERLOAD SAFETY SYS
IA616	EIMCO CMD	12/01/89	MDL. 1490027 OR ALT. MDL. 1490058 RADIO CTRL SYS
IA618	CATTRON, INC.	09/19/89	MDL. CPA-0204 ANTENNA BARRIER
IA619	MATRIC LTD.	08/23/90	MDL. 500-352 BATTERY BACK-UP FIRE SUPPRESSION UNIT
IA621	SENTRY MINE SERVICE	10/03/89	MDL. SB-12 SAFETY BARRIER
IA623	SENSE TECHNOLOGY	11/02/89	MDL. 10-7072 ZENER BARRIER WITH MDL. 10- 7073 OR MDL. 10-7078 MAGNETIC MOTION SENSOR
IA624	AMERICAN MINING ELECTRONICS, INC.	01/30/90	MDL. 1008 COAL THICKNESS MEASURING SYS
IA625	KLOECKNER-BECORIT NORTH AMERICAN, INC. TRANSFERRED TO MTA	05/11/90	MD. KB-MC10 MICRO- PROCESSOR CTRL SYS
IA627	APITECH DIV. OF APPLIED POWER, INC.	03/30/90	12V, SOLENOID VALVE SYS
IA630	STOLAR INC. TRANS- FERRED TO CONSPEC CTRLS	03/06/90	PS-1, 24VDC POWER SUPPLY

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IA631	MINING PROGRESS, INC. TRANSFERRED TO MARCO NORTH AMERICA	03/02/90	MDL. PM2/WM INFRARED TRANSMITTER
IA632	DRESSER INDUSTRIES, INC. JEFFREY DIV.	01/28/91	MDL. DRC 4100 DIESEL SAFETY SYS
IA636	EIMCO CMD	11/16/90	MDL 1490065 FIBER OPTIC CTRL SYS
IA638	SIEMENS ENERGY AND AUTOMATION INC.	12/18/90	SIMDAS S5-115E AUTOMATION SET
IA639	DM ENTERPRISES, INC. TRANSFERRED TO WESTFALIA MINING PROGRESS TRANSFERRED TO MTA	03/08/91	DME 1990 MACHINE CTRL CIRCUIT
IA644	PYOTT-BOONE ELECTRONICS	12/20/90	MDL. 236IA PHOT SWITCH
IA645	MOOG CTRLS LTD. 1	2/28/90	MDL. E140K901 REMOTE CTRL SYS
IA646	ANDERSON MAVOR TRANS TO LONG AIRDOX LONGWALL	01/29/91	MDL. DBSI-1 DIODE BARRIER SWITCH INTERFACE ASSY
IA647	HEMSCHEIDT TRANSFERRED TO MTA	03/01/91	HECTRONIC 100 ELECTRO-HYDRAULIC VALVE CTRL SYS
IA649	TRANSMITTON, INC. TRANSFERRED TO TRANSMITTON UK	04/22/91	TROLEX MDL. 3240 SERIES GAS SENSOR

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IA651	TRANSMITTON, INC. TRANSFERRED TO TRANSMITTON UK	04/01/91	TROLEX MDL. 3266 METHANE & EXPLOSION GAS SENSOR
IA652	CSE CORPORATION	02/07/91	MDL. 140B METHANE MONITOR FOR HIGH CONCENTRATION SAMPLING
IA656	JEFFREY MINING MACHINERY DIV.	03/26/91	MDL. CAT 864-M1 TETHER OPERATED CIRCUIT
IA657	AMERICAN LONGWALL MINING CORP.	08/05/91	MDL. ACTS-100 AUTOMATIC CHAIN TENSIONING SYS
IA659	PRAIRIE MACHINE AND PARTS MFG. LTD.	07/24/91	MDL. PMP 1991 MACHINE CTRL CIRCUIT
IA660	AMERICAN MINE ELECTRONICS, INC.	10/18/91	MDL. 985 DATA COMMUNICATION SAFETY BARRIER
IA662	ANDERSON MAVOR TRANS TO LONG AIRDOX LONGWALL	08/05/91	MDL. AT1 EXTERNAL TACHOMETER
IA663	MICROPROCESSOR TECHNOLOGY TRANSFER GMBH TRANSFERRED TO WESTFALIA MINING PROGRESS TRANSFERRED TO MTA	04/08/92	MDL. TECH TRANS-4 ROOF SUPPORT CTRL SYS
IA665	JIM WALTER RESOURCES	08/26/91	MDL. JWR-S005-1B
IA668	SIMMONS RAND TRANS-	11/01/91	MDL. CM-3252 PQ CTRLS

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IA669	VICTOR PRODUCTS USA	04/03/92	MDL. ISL5 LIGHTING SYS
IA670	HAUHINCO	09/03/91	MDL ADM2 ELECTRO CTRL SYS
IA671	MITSUI MIIKE MACHINERY CO. LTD.	05/05/92	MDL. E3896813 ELECTRO- HYDRAULIC CTRL SYS
IA674	SMC ELECTRICAL PRODUCTS	10/18/91	MDL. C2930 SERV-IS-LITE II LIGHTING SYS
IA677	WESTFALIA DME, INC. TRANSFERRED TO WESTFALIA MINING PROGRESS TRANSFERRED TO MTA	10/30/91	MDL. 550-027-00A TACHOMETER PICKUP CIRCUIT
IA678	SIMMONS-RAND CO. TRANSFERRED TO LONG-AIRDOX	12/04/91	MDL. 2000 INTERFACE MODULE
IA9824	SMC ELECTRICAL PRODUCTS	01/28/92	MDL. WC399 SOLENOID CTRL SYS FOR TENSIONABLE TAIL DRIVE
IA9825	WESTFALIA MINING PROGRESS TRANSFERRED TO MARCO NORTH AMERICA TRANSFERRED TO MTA	02/04/92	TYPE DTP/C2 MONITORING AND CTRL SYS
IA9834	SMC ELECTRICAL PRODUCTS	01/28/92	MDL. C2930 POWER SUPPLY

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IA9846	ANDERSON MAVOR TRANS TO LONG AIRDOX LONGWALL	07/09/92	MDL. HDU1HEALTH MONITORING SYS
IA9969	JIM WALTER RESOURCES, INC.	03/16/92	MDL. JWR-S014-01 HIGH VOLTAGE BARRIER
IA9997	WESTFALIA MINING PROGRESS TRANSFERRED TO MTA	07/06/92	TYPE LCU/AUR CHAIN TENSION CTRL SYS
IA10094	LINE POWER MFG. CORP.	11/03/92	MONITORING/CONTROL CIRCUIT
IA10095	CONSOLIDATION COAL	01/15/93	ACCUSTAR I CLINOMETER
IA11688	EIMCO CMI	01/27/93	MDL. 1610342 INDUCTIVE PICKUP CIRCUIT
IA11724	CONSOLIDATION COAL	01/29/93	MDL. RT/2000-A HAND- HELD CONTROLLER SYS
IA11858	CONSOL, INC.	10/08/93	RPI-001 ROTARY POSITION INDICATOR CIRCUIT
IA11902	CONSOL, INC.	10/08/93	RPI-420 ROTARY POSITION INDICATOR CIRCUIT
IA11955	RAD ENGINEERING, INC.	11/19/93	MDL. FCS-100 FACE COMMUNICATION SYS
IA12718	ANDERSON MAVOR, INC. TRANS TO LONG AIRDOX LONGWALL	08/05/93	MDL. ACS 1 AUTO CTRL SYS

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IA12726	STRUCTURED MINING SYSTEMS, INC.	10/27/93	MDL. EST-100 ENDSTATION ASSY
IA12782	VOEST ALPINE BERGTECHNIK	02/04/94	MDL. ABM20 I.S. CTRL SYS
IA12925	ANDERSONMAVOR TRANS TO LONG AIRDOX LONGWALL	07/30/93	MDL. PSW 2 PRE-START WARNING SYS
IA13138	JEFFREY DIVISION, INDRESCO, INC.	11/15/93	MDL. 5016 IS-2 OIL LEVEL MONITOR
IA13139	JEFFREY DIVISION INDRESCO, INC.	11/15/93	MDL. 5016 IS-1 SYSTEM AND SEQUENCE CTRL
IA13428	SMC ELECTRICAL PRODUCTS	09/03/93	DAVIS OF DERBY TYPE FACE COMM 1 COMMUNICATION SYS
IA13480	POWERTEC INDUSTRIAL CORPORATION	05/31/94	MDL. KT1570011 BRUSHLESS DC MOTOR CTRL
IA13612	DOSCO CORP.	12/29/93	BENDICAR MDL. 1200 LINEAR TRANSDUCER SYS
IA13613	DOSCO CORP.	12/29/93	BENDICAR MDL. 1200 PRESSURE TRANSDUCER SYS
IA13614	JOY TECHNOLOGIES	11/18/93	MDL. 500878-10 FAN BEARING MONITORING SYS
IA13619	SMC ELECTRICAL	10/13/93	MDL. B/TD-001 I.S. CTRL

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	PRODUCTS		CIRCUIT
IA13620	SMC ELECTRICAL PRODUCTS	10/13/93	MDL. PS/SOL-001 I.S. CTRL CIRCUIT
IA13633	IMO INDUSTRIES	01/20/95	MDLS P/N 144600 & P/N 144800 SAFE PAK RELAYS
IA13799	PEMPEK SYSTEMS PTY LTD. NME CHNGED TO FORCED POTATO	08/09/94	MDL. ABM 20 I.S. CTRL SYS
IA13800	PEMPEK SYS PTY LTD NME CHNGED TO FORCED POTATO	08/17/94	MDL. MRS-RC002/R RADIO REMOTE CTRL SYS
IA13803	LONG-AIRDOX CO. 01/04/94		MDL. 016966MSHA ISOLATOR RELAY SYS
IA13807	BAY INDUSTRIAL & MINE TECH, INC.	03/20/96	MDL. RL-7000 BAYTECH SAFETY LIGHT
IA13827	KH CONTROLS	06/17/94	MDL. ISSI PWR SUPPLY
IA13939	RIMTECH INC. TRANS-FERRED TO CONSPEC CTRLS	07/15/94	MDL. VR-3 RADIO TRANSCEIVER
IA13945	MOOG	10/18/94	TORQUE MOTORS TYPE X.X
IA14147	MATRIC LTD	10/12/94	MDL 500-428 MBS1SC REMOTE PACK
IA14238	APITECH DIVISION OF APPLIED POWER	04/19/94	MDL. PULSAR SOLENOID VALVE CTRL
CIRCUIT			

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IA14573	MATRIC LTD.	12/02/94	MDLS 500-424 & 500-486 GLOBAL UHF RECEIVER
IA14650	LONGWALL ROOF SUPPORTS, LTD. TRANSFERRED TO JOY	08/18/94	TYPE SM902000 ROOF SUPPORT CTRL SYS
IA14837	MOOG	04/24/95	MDL. 142-1XX MACHINE UNIT
IA14864	PYOTT-BOONE ELECTRONICS	12/02/94	MDLS. 405IA & 405IA/5 SPEED GUARD II
IA15002	SMC ELECTROCAL PRODUCTS	06/07/95	MDL. GIA-000 CTRL CIRCUIT
IA15081	STRUCTURED MINING SYSTEMS, INC.	12/20/94	MDL PCS-100 PROPORTIONAL CTRL SYS
IA15247	SMC ELECTRICAL PRODUCTS	04/17/95	MDL. PIA-000 I.S. CTRL CIRCUIT
IA15788	WESTFALIA MINING PROGRESS, INC. TRANSFERRED TO MTA	07/27/95	MDL. WBCST CTROLLED START TRANSMISSION SYS
IA16354	JOY TECHNOLOGIES	04/04/96	MDL. MA001017-0001 I.S.C. TRAM SWITCH SYS.
IA16401	PRECISION DESIGN	10/09/96	MDL. PCOMM-1 FACE COMM. SYS.
IA16453	KH CONTROLS	07/17/96	MODEL LX1 LUMINAIRE BALLAST

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IA16655	ANDERSON MAVOR	08/21/96	TYPE SPMC1 SHEARER PROTECTION MONITORING AND CONTROL SYSTEM
IA16704	STRUCTURED MINING SYSTEMS, INC.	09/06/96	MDL. AI100 AERIAL ISOLATOR ASSY
IA16826	OILDYNE	08/13/96	MDL. LRT LINEAR DISPLACEMENT TRANSDUCER SYSTEM
IA17288	FORCED POTATO INC.	11/15/96	TYPE ABM 14 RECEIVER/ CONTROL SYSTEM
IA17059	TIEFENBACH BERGBAUTECHNIK GmbH	12/19/96	MDL. IS418 ELECTROHYDRAULIC SHIELD CTRL SYS
IA17095	CONTINENTAL CONVEYOR	12/27/96	MD. BCPV001 BRAKE CTRL PILOT VALVE
IA17904	CONTROL CHIEF NTR TECHNOLOGIES	02/19/97	MDL. AIM-1000 ANTENNA ISOLATOR
IA18171	JOY MINING MACH.	04/03/97	MDL. TTC TENSIONABLE TAILFRAME CONTROL
IA18031	JOY MINING MACH.	05/09/97	MDL. TTT COUPLING CONTROL CIRCUIT
IA18128	JOY MINING MACH.	09/10/97	MDL. MA001094-0003 ANTENNA BARRIER
IA18606	SCHROEDER IND.	02/19/98	MODELS MS10DC-M & MS12DC-M SOLID STATE

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			INDICATORS
IA18462	MATRIC LIMITED	04/08/98	MODEL 500-622 ENHANCED REMOTE PACK
IA18463	MATRIC LIMITED	04/10/98	MODEL 500-621 BI- DIRECTIONAL RADIO
IA17075	FORCED POTATO INC.	04/21/98	TYPE OGB CAPACITIVE BARRIER
IA18737	INDUSTRIAL SCIEN- TIFIC CORP.	07/14/98	MODEL CDU440 CARBON DIOXIDE MONITOR
IA20643	PYOTT-BOONE	08/26/98	MODEL 4P-200 COMBUSTIBLE GAS SENSOR
IA17501	VICTOR PRODUCTS	09/08/98	TROLEX MODEL TX9042 PROGRAMMABLE SENSOR CONTROLLER
IA20694	MINE TECHNIK AMERICA	10/09/98	MODEL IRT1 INFRARED TRANSMITTER
IA20659	PENNY & GILES CONTROLS, LTD.	10/26/98	MODEL VRVT-H SERIES INDUCTIVE DISPLACEMENT SENSOR
IA18528	JOY MINING MACH.	02/05/99	MODEL RX1 RECEIVER
IA18453	DAC LTD.	03/18/99	CLOIS 3000 CONVEYOR SIGNALING, ALARM, TRIP & COMMUNICATION SYSTEM

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IA20722	SMC ELECTRICAL	04/07/99	INTRINSICALLY SAFE RELAY PART NO. C4325- 001
IA20773	SMC ELECTRICAL	04/13/99	INTRINSICALLY SAFE RELAY PART NO. C4325- 005
IA20851	FORCED POTATO	06/03/99	TYPE HZ CAPACITIVE BARRIER
IA20913	MARCO NORTH AMERICA	06/07/99	MODEL FEP/M8 FLASH MEMORY DEVICE
IA18734	ELEKTRO-ELECTRONIK	07/08/99	MODEL PR116-010.A.X & PR116-010.B.X PRESSURE SENSORS
IA20837	STRUCTURED MINING SYSTEMS	07/26/99	MODEL DCU-1XXX DRILL CONTROL
IA18753	TEXAS INDUSTRIAL PERIPHERALS	08/05/99	MODEL HP-DT-MSH POINTING INDUSTRIAL COMPUTER DEVICE
IA20967	STAMLER CORP.	07/14/99	GENERATION II CONTROL CIRCUIT
IA21034	MTL INC.	11/17/99	7000 SERIES SHUNT DIODE SAFETY BARRIERS 38 DIFFERENT MODEL NUMBERS
IA17174	FORCED POTATO INC.	12/10/99	TYPE OFS

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			RECEIVER/CONTROL SYSTEM
IA18753	TEXAS INDUSTRIAL (Name changed to iKey, Ltd.)	08/05/99	MODEL HP-DT-MSH
IA18756	TEXAS INDUSTRIAL PERIPHERALS (Name changed to iKey, Ltd.)	01/19/00	MODEL DT-5K-MSHA INDUSTRIALCOMPUTER KEYBOARD
IA21108	ANSUL INC.	05/02/02	CHECKFIRE MP-N VEHICLE FIRE DETECTION/SUPP. SYS.
IA21110	STOLAR/HORIZAN	01/31/00	MODEL ADCB-000 ANTENNA DC BLOCK & SENSOR HEAD ANTENNA
IA20826	ADVANCED MINING TECH.	02/25/00	CONTROL SYS. FOR THE SAFESYDOR SYSTEM USA
IA21142	TURCK INC.	03/22/00	MZ-SERIES INTRINSIC SAFETY BARRIERS, 36 DIFFERENT MODEL NUMBERS
IA21232	VOEST-ALPINE	04/04/00	MRS-RC002/R12 VOLT REMOTE CONTROL RECEIVER
IA21311	REL-TEK CORP.	09/13/00	HOTBOSS* SERIES TEMPERATURE SENSORS
IA21365	J. H. FLETCHER	09/28/00	MODEL AP-202, LOAD

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			RATE INDICATING SYS
IA21292	AMPCONTROL, INC.	04/18/01	INTRINISICALLY SAFE MODEL iMAC(INTEGRA- TED MONITORING AND CONTROL) SYSTEM
IA21552	FORCED POTATO, INC.	04/24/01	TYPE LR DATA LOGGING MACHINE INTERFACE UNIT
IA21575	LARSON-DAVIS	10/30/01	MODELS 703, 703+, 704, 705, 705+, AND 706RC PERMISSIBLE NOISE DOSIMETERS
IA21698	POWELL SALES	12/26/01	MODEL PE-IS300 CONTROL SYSTEM
IA21777	FORCED POTATO	07/19/02	TYPE L0KN REMOTE CONTROL TRANSMITTER
IA21884	BOSCH REXROTH	03/04/03	MODEL GE35-2-A SOLENOID VALVE
IA21931	DBT GB LIMITED	04/08/03	TYPE SP400 KEYPAD TRANSMITTER
IA22041	DBT GB LIMITED	09/18/03	MODEL SPMC2 SHEARER PROTECTION, MONITORING, AND CONTROL SYSTEM
18-ISA040001	J.H. FLETCHER	09/16/04	I.S. CONTROL VALVE ENABLE SYSTEM

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18-ISA050001	DBT AMERICA	04/07/05	AUDIBLE ALARM SYSTEM
18-ISA050002	DBT AMERICA	11/04/05	MODEL PMC-R CONTROL SYSTEM
18-ISA050003	INDUSTRIAL COMP.	12/09/05	MODELS B130-001 AND B210-400 RELAYS
18-ISA060001	KH CONTROLS	03/09/06	MODEL ILDS1 INCLINE DISCONNECT SWITCH
18-ISA060002	AUSTDAC PTY LTD.	04/10/06	COMMUNICATION AND SIGNALING SYSTEM
18-ISA060003	NAUTILUS INTER. CONTROL & ENG.	06/08/06	MODEL MF4 MAGNETIC FIELD ANTENNA/ARRAY TX
18-ISA060004	FORCED POTATO	04/04/06	JAGANNATH I.S. CONTROL SYSTEM
18-ISA060005	DBT AMERICA	05/02/06	MODEL PMC-D DRIVE CONTROL SYSTEM
18-ISA060006	UNITED MINING EQUIPMENT, INC.	06/08/06	MODEL US-31 ROOF SUPPORT CONTROL SYSTEM
18-ISA060007	KH CONTROLS	09/07/06	MODEL SS1 SOLENOID SUPPLY
18-ISA060008	SANDVIK MINING & CONSTRUCTION	12/22/06	MODEL EGPP01 FLAME PROOF DIESEL POWER PACK
18-ISA060009	STRUCTURED MINING	12/15/06	MODEL REM-100 FEED/ROTATION NEUTRAL MONITOR
18-ISA070001 102C-	SYMCOM INC.	01/24/07	MODELS ISS-102CA-M, ISS-

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			M, ISS-102CCI-M
18-ISA070004	KOEHLER-BRIGHT STAR	09/17/07	WHEAT L1-16 BATTERY FOR PTO USE (MODEL L1-5000-PTO, PTO BATTERY)
18-ISA070005	MATRIX DESIGN GROUP, LLC	09/11/07	MODEL B1000 BARRIER
18-ISA070006	H & P PROTOTYPING LLC (Transferred to NIOSH- National Institute for Occupational Safety and Health)	11/21/07	MODEL V503 COAL DUST EXPLOSIBILITY METER
18-ISA070007 400	INDUSTRIAL COMPONENTS	12/27/07	MODELS B130-001 AND B210-RELAYS
18-ISA080001	BUCYRUS AUSTRALIA UNDERGROUND PTY LTD	01/16/08	MODEL SEMS DIESEL SAFETY CONTROL AND SHUTDOWN SYSTEM
18-ISA080002	VENTEK, LLC TRANSFERRED TO SOLDO, USA LLC	02/08/08	MODEL AXFSS AND MODEL AXNSS BARRIERS
18-ISA080003	VOITH TURBO GMBH & CO.	03/12/08	MODEL V-I-M1 INTRINSICALLY SAFE SOLENOID
18-ISA080005	REL-TEK CORP.	08/15/08	MODEL MULTIBOSS/DP DIFFERENTIAL PRESSURE TRANSDUCER SYSTEM
18-ISA080006	TROLEX LIMITED	08/18/08	MODEL TX66636 ITRINSICALLY SAFE POWER SUPPLY

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18-ISA080007	PYOTT-BOONE ELECTRONICS	08/15/08	MODEL EX-IA, P/N 500-1939-003 BARRIER ASSEMBLY
18-ISA080008	COMTROL INTERNATIONAL	11/12/08	MODEL PS1558 POWER SUPPLY
18-ISA080009	REL-TEK CORPORATION	11/05/08	MODEL TOXIBOSS TOXIC GAS SENSOR SYSTEM
18-ISA080004	PEMPEK SYSTEMS	12/9/08	TYPE LORF 11V8-1.5A POWER SUPPLY
18-ISA090001	REL-TEK CORP.	02/09/09	MODEL SMOKEBOSS*100 SMOKE SENSOR SYSTEM
18-ISA090002	PILLAR INNOVATIONS	02/05/09	IS EVALUATION FOR THE PS- xx-XP -120-AC-xx.x-DC-x.x- A-L-N POWER SUPPLY
18-ISA090003	MATRIX DESIGN GROUP	02/23/09	MODEL M3-1000 PROXIMITY MONITORING SYSTEM
18-ISA090004	R. STAHL, INC.	03/30/09	TYPE 9170/12-12-13, 9170/22-12-13 AND 9170/22-12-23 SWITCHING REPEATERS
18-ISA090005	AMD-OTTO HENNLICH TECH GMBH	05/21/09	P/N 210350 SOLENOID VALVE
18-ISA090006	AMD-OTTO HENNLICH TECH GMBH	05/14/09	P/N 210351 SOLENOID VALVE

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18-ISA090007 SYSTEM	VICTOR PROD.	06/18/09	MODEL ISL8 LIGHTING
18-ISA090008	AMPCONTROL	12/22/09	VOICECOM LONGWALL COMMUNICATIONS SYSTEM
18-ISA100001	PILLAR INNO- VATIONS	01/14/10	MODEL DC BLOCK & RF FILTER
18-ISA100002	PILLER INNO- VATIONS	05/04/10	MODEL PS-3000 POWER SUPPLY
18-ISA100003	TIEFENBACH NORTH AMERICA	09/24/10	MODEL TIBATRON 200 ELECTRO HYDRAULIC SHIELD CONTROL SYSTEM
18-ISA100004	KH CONTROLS	08/09/10	MODEL LX2 LUMINAIRE DRIVER ASSEMBLY
18-ISA100005	PILLAR INNO- VATIONS	10/14/10	MODEL PS-3100 POWER SUPPLY
18-ISA110001	COMTROL INTERNATIONAL	02/15/11	PART NUMBER PS1571 POWER SUPPLY
18-ISA110002	CONSPEC CONTROLS	04/01/11	MODEL 911150 BLUE OUTSTATION BARRIER ASSEMBLY
18-ISA110003	MEASUREMENT TECHNOLOGY, LTD.	07/01/11	MTL 7700 SERIES SHUNT DIODE SAFETY BARRIER ASSYS
18-ISA110004	MARCO SYSTEMANALYSE UND ENTWICKLUNG GMBH	04/26/11	MARCO PM32 EH-SYSTEM

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18-ISA120001	NL TECH.	03/05/12	ECLIPSE POWER PACK
18-ISA120002	SYLATEC, LLC	09/28/12	SYL-RLY-002, SYL-RLY-003, SYL-ENC-001, SYL-ENC-002 RELAYS AND ENCODERS
18-ISA120003	CONSPEC CONTROLS, INC.	12/19/12	MODEL T1279 SMART HEAD BATTERY OPERATED TRANSMITTER
18-ISA120004	TROLEX, LTD	09/25/12	MODEL TX2121 RS485 SERIAL COMMUNICATIONS LINE ISOLATOR