

APPROVAL AND CERTIFICATION CENTER

9B APPROVALS

| <u>APPROVAL NO.</u> | <u>COMPANY</u>   | <u>ISSUE DATE</u> | <u>DESCRIPTION</u>  |
|---------------------|--|-------------------|---|
| 9B-31               | NORTH AMERICAN PHILIPS CORP                                | 01/22/73          | LFH/0085/54, 9 VDC, BATTERY-POWERED POCKET MEMO   |
| 9B-32               | U.S. BUREAU OF MINES                                       | 03/06/73          | 12 VDC, MINE COMMUNICATIONS SYSTEM CONTAINING A CARRIER TRANSCEIVER, RECEIVING COIL WITH PREAMPLIFIER, SPEAKER AND MICROPHONE, COUPLING BOX, BATTERY BOX, AND TRANSMITTING LOOP |
| 9B-33<br>WITHDRAWN  | MINE SAFETY APPLIANCES CO                                  | 01/26/73          | 12 VDC, BATTERY-POWERED WARNING DEVICE SYSTEM   |
| 9B-34               | GULTON IND.<br>(TRANSFERRED TO FEMCO, DIV. OF GAITRONICS ) | 04/11/75          | MODEL 741301, 12 VDC, LOUDSPEAKING MINE TELEPHONE   |
| 9B-35<br>RESCINDED  | RESEARCH ELEC-TRONICS, INC                                 | 03/26/73          | 2.7 VDC, BATTERY-POWERED VIP POCKET PAGER   |
| 9B-36               | PYOTT-BOONE  | 03/20/73          | 12 VDC, BATTERY-POWERED GK-SERIES LOCAL HEAT DETECTION SYSTEM   |
| 9B-37               | PYOTT-BOONE  | 07/18/73          | MODEL GK-10400-A, 24 VDC, BATTERY-POWERED MINE PAGE PHONE   |
| 9B-38               | GENERAL RADIO  | 06/27/73          | 7.5 VDC, BATTERY-POWERED 1935 CASSETTE DATA RECORDER  |
| 9B-39               | NORTH AMERICAN PHILIPS CORP                                | 01/16/74          | LFH0088/51, 9VDC, BATTERY-POWERED DICTATION MACHINE   |
| 9B-40               | NORTH AMERICAN PHILIPS CORP                                | 01/16/74          | LFH0095/54, 9 VDC, BATTERY-POWERED POCKET MEMO  |

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| 9B-41               | MOTOROLA, INC               | 03/25/74          | MH70, 15 VDC, BATTERY-POWERED TWO-WAY PORTABLE RADIO          |
| 9B-42               | MOTOROLA, INC               | 03/25/74          | 15 VDC, BATTERY-POWERED FM TWO-WAY PORTABLE RADIO             |
| 9B-43               | GAI-TRONICS                 | 08/21/74          | MODEL 491, 12 VDC, BATTERY-POWERED MINE DIAL/PAGE PHONE       |
| 9B-44<br>RESCINDED  | JABCO, INC                  | 05/30/74          | PP-103, PM-103, PP-105<br>BATTERY-POWERED PAGE PHONES         |
| 9B-45               | JABCO, INC                  | 06/03/74          | PT-101 BATTERY-POWERED PAGE PHONE TESTER                      |
| 9B-46               | RCA                         | 07/29/74          | TACTEC VHF, 12 VDC, BATTERY-POWERED PORTABLE TWO-WAY RADIO    |
| 9B-47               | RCA                         | 07/29/74          | TACTEC VHF, 12 VDC, BATTERY-POWERED PORTABLE TWO-WAY RADIO    |
| 9B-48               | JEFFREY MINING MACHINERY    | 08/20/74          | MODEL JMI-1, 6 VDC, BATTERY-POWERED TRANSMITTER AND RECEIVER  |
| 9B-49               | JABCO, INC                  | 08/20/74          | JG-107, 12 VDC, BATTERY-POWERED AUDIO ALARM FIRE SENSING UNIT |
| 9B-50               | CHEMICAL SERVICES ENGINEERS | 09/19/74          | MODEL 120, 12 VDC, BATTERY-POWERED PAGE PHONE                 |
| 9B-51               | TEL-E-LECT, INC             | 11/13/74          | TELE-TROLL, 6 VDC, BATTERY-POWERED TRANSMITTER AND RECEIVER   |
| 9B-52               | DICTAPHONE CORP             | 02/24/75          | DICTAPHONE 10, 9 VDC, BATTERY-POWERED CASSETTE RECORDER       |

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| 9B-53               | DENVER MINING RESEARCH CENTER                                   | 03/10/75          | 6 VDC, BATTERY-POWERED DATA ACQUISITION AND TELEMTRY UNIT FOR MICROSEISMIC ROOF FALL WARNING SYSTEM |
| 9B-54<br>RESCINDED  | CSE CORPORATION   | 02/27/75          | MODEL 12, 12 VDC, BATTERY-POWERED PAGER EXTENDER  |
| 9B-55               | STANDARD COMMUNICATIONS CORP                                    | 04/18/75          | MODEL SR-C 730L50, 12 VDC, HAND-HELD TRANSCEIVERS   |
| 9B-56               | STANDARD COMMUNICATIONS CORP                                    | 04/25/75          | MODEL SR-C 830L30, 12 VDC, HAND-HELD TRANSCEIVERS   |
| 9B-57               | STANDARD COMMUNICATIONS CORP                                    | 04/25/75          | MODEL SR-C 830S50, 12 VDC, HAND-HELD TRANSCEIVERS   |
| 9B-58               | GULTON INDUSTRIES<br>(TRANSFERRED TO FEMCO, DIV OF GAITRONICS ) | 05/23/75          | MODEL 741901, 2.7 VDC, BATTERY-POWERED POCKET PAGER   |
| 9B-59               | MOTOROLA, INC   | 06/18/75          | "TRITON", 12.5 VDC, BATTERY-POWERED MARINE PORTABLE TWO-WAY RADIO                                   |
| 9B-60               | PYOTT-BOONE   | 07/07/75          | 9 VDC, BATTERY-POWERED PAGE PHONE ACTIVATOR   |
| 9B-61               | PYOTT-BOONE   | 02/06/76          | MODEL 304A, 24 VDC, BATTERY-POWERED MINE PAGE PHONE   |
| 9B-62               | LEE ENGINEERING DIVISION  | 09/24/75          | 4 VDC, BATTERY-POWERED LONGWALL RADIO REMOTE CONTROL TRANSMITTER                                    |
| 9B-63               | LANIER BUSINESS PRODUCTS  | 12/23/75          | LANIER MICROSETTE 60, 3 VDC, BATTERY-POWERED PORTABLE DICTATING MACHINE                             |
| 9B-64               | CRAIG CORP  | 02/18/76          | MODEL 2625, 5 VDC, BATTERY-POWERED CASSETTE RECORDER  |

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| 9B-65               | ROCKWELL INTERNATIONAL                       | 03/16/76          | 59D-1, 8 VDC, BATTERY-POWERED CALL ALERT TRANSMITTER AND RECEIVER   |
| 9B-66               | MOTOROLA COMMUNICATIONS DIV                  | 03/26/76          | MX300 SERIES, 8.4 VDC, BATTERY-POWERED "HANDIE-TALKIE" PORTABLE RADIO   |
| 9B-67               | DAVID CLARK CO                               | 06/10/76          | MODELS 800 SM-A, 800SB-A AND 900 SB-A, SOUND POWERED HEADSETS   |
| 9B-68               | MOTOROLA COMMUNICATIONS AND ELECTRONICS, INC | 07/02/76          | MODEL SP820821, 12 VDC, BATTERY-POWERED PORTABLE DUPLEX REPEATER RADIO  |
| 9B-69               | MOTOROLA, INC                                | 10/15/76          | DIRECTOR (GBC), 2.4 VDC, BATTERY-POWERED DIRECTOR (GBC) AND BATTERY-POWERED PAGEBOY II (FNC) SERIES RADIO PAGER   |
| 9B-70               | MOTOROLA, INC                                | 10/15/76          | PAGEBOY II (FNC), 2.4 VDC, BATTERY-POWERED DIRECTOR (GBC) AND BATTERY-POWERED PAGEBOY II (FNC) SERIES RADIO PAGER |
| 9B-71               | COMTROL CORP                                 | 10/07/76          | 12 VDC, BATTERY-POWERED LOUDMOUTH TELEPHONE   |
| 9B-72               | HARRIS CORP                                  | 12/30/76          | MODELS RF-2820 AND RF-2840, 15 VDC, BATTERY-POWERED VHF AND UHF "PORTABLE RADIOS"                                 |
| 9B-73               | HARRIS CORP                                  | 12/30/76          | MODELS RF-2828 AND RF-2848, 15 VDC, BATTERY-POWERED VHF AND UHF PORTABLE RADIOS                                   |
| 9B-74               | SONY CORP                                    | 05/26/77          | MODEL M-101, 2 VDC, BATTERY-POWERED TAPE RECORDER   |
| 9B-75               | EICKHOFF-NATIONAL MINE COMPANY               | 05/26/77          | MODEL 8SD6, 12 VDC, BATTERY-POWERED TAPE RECORDER   |

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| 9B-76   | FEMCO DIVISIONS,<br>GULTON INDUSTRIES<br>(TRANSFERRED TO<br>FEMCO, DIV OF<br>GAI TRONICS ) | 05/31/77          | SERIES 691301, 24 VDC,<br>BATTERY-POWERED<br>LOUDSPEAKING MINE<br>TELEPHONES                                  |
| 9B-77   | JABCO, INC   | 06/03/77          | MODELS PP-103, PP-103H, AND<br>PP-105, 24 VDC, BATTERY-<br>POWERED PAGE PHONES                                |
| 9B-78   | JABCO, INC   | 06/03/77          | MODEL LP-103, 12 VDC, BATTERY-<br>POWERED PAGE PHONE  |
| 9B-79   | JABCO, INC   | 06/03/77          | MODEL PP-103L, 24 VDC,<br>BATTERY-POWERED PAGE<br>PHONE   |
| 9B-80   | FEMCO DIVISIONS,<br>GULTON INDUSTRIES<br>(TRANSFERRED TO<br>FEMCO DIV OF<br>GAI TRONICS )  | 08/31/77          | MODELS 701301/001, 701301/002<br>701301/101, AND 701301/102,<br>24 VDC, BATTERY-POWERED<br>PERMISSIBLE ALARMS |
| 9B-81   | DICTAPHONE CORP  | 08/01/77          | MODEL 220, 6 VDC, CASSETTE<br>RECORDER  |
| 9B-82   | MOTOROLA, INC  | 08/25/77          | MODEL MT500, 15 VDC,<br>BATTERY-POWERED "HANDIE-<br>TALKIE" PORTABLE RADIO                                    |
| 9B-83   | PREISER/MINECO   | 05/24/78          | MODEL 9176, 24 VDC, BATTERY-<br>POWERED MINE TELEPHONE  |
| 9B-84   | MOOG, INC  | 12/01/77          | MODELS 101 AND 120, 4 VDC,<br>BATTERY-POWERED MINING<br>MACHINE RADIO REMOTE<br>CONTROL SYSTEM                |
| 9B-85<br>Ext. 0,1,2<br>HAVE BEEN<br>WITHDRAWN | MINE SAFETY<br>APPLIANCES CO   | 11/29/77          | PAGE III, 12 VDC, BATTERY-<br>POWERED MINE TELEPHONE  |

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| 9B-86               | NORTH AMERICAN<br>PHILIPS CORP   | 03/06/78          | MODEL LFH0185, 9 VDC, TAPE<br>RECORDER POWERED BY A<br>MALLORY ALKALINE DURACELL<br>MN1640 OR NEDA 1604 BATTERY  |
| 9B-87               | PACE DIVISION,<br>PATHCOM, INC   | 07/11/78          | MODEL FM-152, 12 VDC, HAND-<br>HELD VHF RADIO TRANSCEIVER,<br>POWERED BY EIGHT SIZE "AA"<br>CARBON-ZINC CELLS, NEDA 15,<br>15P, OR 15F, OR EIGHT SIZE "AA"<br>ALKALINE CELLS, NEDA 15A |
| 9B-88               | GULTON INDUSTRIES<br>FEMCO DIVISIONS<br>(TRANSFERRED TO<br>FEMCO, DIV OF<br>GAITRONICS ) | 05/22/78          | MODEL NOS. 701301/701 AND<br>701301/702, 12 VDC BATTERY-<br>POWERED PERMISSIBLE ALARM II   |
| 9B-90               | SOUND POWERED<br>COMMUNICATIONS  | 07/11/78          | MODELS SPT-125, SPT-148, SPT-<br>125S AND SPT-148S, SOUND<br>POWERED TELEPHONES  |
| 9B-92               | GULTON INDUSTRIES<br>FEMCO DIVISION<br>(TRANSFERRED TO<br>FEMCO, DIV OF<br>GAITRONICS )  | 10/31/78          | MODEL NOS. 741301/703 AND<br>741301/706, 12 VDC, BATTERY-<br>OPERATED LOUDSPEAKING MINE<br>TELEPHONE (DESK SET )   |
| 9B-93               | CSE CORP   | 12/11/78          | MODELS 123 AND 124, 12 VDC,<br>BATTERY-POWERED MINE<br>TELEPHONE   |
| 9B-94               | CSE CORP   | 01/24/79          | MODEL 126, 12 VDC, BATTERY-<br>POWERED MINE TELEPHONE  |
| 9B-95               | CSE CORP   | 01/31/79          | MODEL 243, 24 VDC, BATTERY-<br>POWERED MINE TELEPHONE  |
| 9B-96               | LEE ENGINEERING<br>DIV OF CONSOLID-<br>ATION COAL CO                                     | 01/31/79          | MODEL SSB R-1, KHZ, 4 VDC<br>CAP LAMP BATTERY, HAND-HELD<br>TRANSCEIVER  |
| 9B-97               | APPALACHIAN<br>ELECTRONIC<br>INSTRUMENTS   | 02/07/79          | MODELS 101, 102, AND 103, 24<br>VDC, BATTERY-POWERED MINE<br>TELEPHONE   |

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| 9B-98               | COMTROL CORP  | 03/28/79          | MODEL LM-104 LOUDMOUTH VISUAL TRANSMITTER, 12 VDC AND MODEL LM-105 LOUDMOUTH VISUAL RECEIVER   |
| 9B-99               | LANIER BUSINESS PRODUCTS  | 03/07/79          | MODEL MS-105, 3 VDC, TAPE RECORDER   |
| 9B-100              | LEE ENGINEERING DIVISION OF CONSOLIDATION COAL (TRANSFERRED TO DOWTY) ) (TRANSFERRED TO JOY ) | 03/28/79          | MODEL KD-100 ISC, 12 VDC, BATTERY-POWERED VISUAL ALARM   |
| 9B-101              | LANIER BUSINESS PRODUCTS  | 03/27/79          | MODEL AL/C-1, 6 VDC, BATTERY-POWERED TAPE RECORDER   |
| 9B-102              | PYOTT-BOONE   | 05/17/79          | MODEL 112, 12 VDC, BATTERY-POWERED RADIO CONTROL SYSTEM  |
| 9B-103              | ANDERSON STRATHCLYDE LTD (TRANSFERRED TO LONG AIRDOX LTD.)                                    | 04/19/79          | TYPE CS12, 12 VDC, BATTERY-POWERED RADIO CONTROL SYSTEM  |
| 9B-104              | COMTROL CORP  | 05/24/79          | MODEL LM-101-1, 24 VDC, BATTERY-POWERED LOUDMOUTH PAGING MINE TELEPHONE  |
| 9B-105              | COMTROL CORP  | 06/07/79          | MODEL CU111, 12 VDC, BATTERY-POWERED MINE TELEPHONE SWITCHBOARD  |
| 9B-106              | SONAR RADIO CORP  | 06/07/79          | MODELS SP2518/2519 AND SP-2518/2519 SENATOR, 2.5 VDC, 225 MAH, NICKEL-CADMIUM BATTERY OR 2.8 VDC, MERCURY BATTERY, PAGING RECEIVERS AND TRANSMITTERS |

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| 9B-107              | U.S. BUREAU OF MINES        | 05/24/79          | 6/6/+ 14 VDC, BATTERY-POWERED MICROSEISMIC ROOF FALL WARNING SYSTEM AND FUNCTIONAL TEST SET   |
| 9B-108<br>RESCINDED | ECKO, INC                   | 05/24/79          | MODEL 104A, 22.5/12 VDC, BATTERY-POWERED PAGING MINE TELEPHONE  |
| 9B-109              | MOOG, INC                   | 07/30/79          | ASSEMBLY NO. A36111, 4 VDC, SENDING UNIT AND MODEL 127-168 RECEIVER UNIT, RADIO CONTROL SYSTEM  |
| 9B-110              | GENERAL ELECTRIC            | 05/01/80          | MODEL PE45, 7.5 VDC, BATTERY-POWERED GREEN LABEL RADIO  |
| 9B-111              | GENERAL ELECTRIC            | 01/29/81          | MODEL PE56, 7.5 VDC, BATTERY-POWERED GREEN LABEL RADIO  |
| 9B-112              | REMIC CORP                  | 09/18/79          | MODEL NOS. 7700E, 7700N, 7700ES, 7700F, 78001, 7800H, 7800HL, 7800P, 7800B, AND 7700NS HAT-COM, 9 VDC, BATTERY-POWERED HAND-HELD TRANSCEIVERS |
| 9B-113              | NORTH AMERICAN PHILIPS CORP | 08/29/79          | MODEL NT-1, 9 VDC, BATTERY-POWERED TAPE RECORDER  |
| 9B-114              | JABCO, INC                  | 09/27/79          | MODEL UP-122, 12 VDC, BATTERY-POWERED MINE TELEPHONE  |
| 9B-115              | JABCO, INC                  | 10/01/79          | MODEL LP-112, 12 VDC, BATTERY-POWERED MINE TELEPHONE  |
| 9B-116              | JABCO, INC                  | 09/27/79          | MODEL UP-124 AND UP-124M, 24 VDC, BATTERY-POWERED MINE TELEPHONE  |
| 9B-117              | WESTERN ELECTRIC            | 11/07/79          | MODEL 537A, 12 VDC, BATTERY-POWERED MINE TELEPHONE  |

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| 9B-118              | JABCO, INC                       | 12/07/79          | MODEL DP-112, 12 VDC, BATTERY-POWERED "CHAMP" DESK PAGER MINE TELEPHONE   |
| 9B-119              | AMERICAN MINE RESEARCH, INC      | 12/21/79          | MODEL CD-700, 9 VDC, BATTERY-POWERED CABLE FAULT DETECTOR   |
| 9B-120<br>WITHDRAWN | MINE SAFETY APPLIANCES           | 02/26/80          | MODEL NO. IV, 12 VDC BATTERY-POWERED MINE TELEPHONE   |
| 9B-121              | COMTROL CORP                     | 06/17/80          | MODEL CU109, 12 VDC, BATTERY-POWERED REPEATER   |
| 9B-122              | COMTROL CORP                     | 05/14/80          | MODEL LM105, 12 VDC, BATTERY-POWERED FIVE-MINUTE PAGE DETECTOR  |
| 9B-123              | PYOTT-BOONE                      | 06/04/80          | MODEL NOS. 630 AND 631, 12VDC, BATTERY-POWERED MULTIGUARD FAN MONITOR   |
| 9B-124              | NAGRA MAGNETIC RECORDERS, INC    | 06/30/80          | MODEL SNN, 3 VDC, BATTERY-POWERED TAPE RECORDER   |
| 9B-125              | COMTROL CORP                     | 09/18/80          | MODEL ME1511, 12.0 AND 12.6 VDC, BATTERY-POWERED CABLE FAULT DETECTOR   |
| 9B-126              | DERBY AUTOMATION CONSULTANTS LTD | 08/25/80          | MODEL NO. 022-02-0009, 7.5 VDC, BATTERY-POWERED INTRINSICALLY SAFE TELEPHONE WITH MODEL 047-02-0087 SURFACE INTERFACE |
| 9B-127              | HARRISON R. COOPER ASSOCIATES    | 09/26/80          | TUNNEL-COM FM, 12 VDC, BATTERY-POWERED WIRELESS COMMUNICATION UNIT  |
| 9B-128              | COMTROL CORP                     | 10/29/80          | MODEL NO. LM109, PART NO. LM1533 TRANSMITTER AND MODEL LM110, PART NO. LM1534 RECEIVER, BATTERY-POWERED               |

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| 9B-129              | COMTROL CORP  | 05/26/81          | MODEL MM105, 12 VDC, BATTERY-POWERED PORTABLE MOTORMOUTH CARRIER UNIT            |
| 9B-130              | MINING PROGRESS<br>(TRANSFERRED TO WESTFALIA MINING PROGRESS TRANSFERRED TO MTA ) | 10/22/81          | MODEL EC-115, 6 VDC, SELF-POWERED INDICATOR LIGHT                                |
| 9B-131              | MINE SAFETY APPLIANCES CO   | 12/09/81          | 12 VDC, BATTERY-POWERED PAGER V MULTI-PHONE                                      |
| 9B-132              | CATALYST RESEARCH CORP  | 12/09/81          | 12 VDC, BATTERY-POWERED MULTI-PHONE PAGER TELEPHONE                              |
| 9B-133              | MOTOROLA, INC   | 01/07/82          | MODEL MX-300 SERIES, 800 MHZ, 7.5 VDC, UHF PORTABLE TRANSCEIVER "HANDIE-TALKIE"  |
| 9B-134              | PANICO<br>(TRANSFERRED TO B&B ELECTRIC )  | 01/28/82          | MODEL PN-380, 12 VDC, BATTERY-POWERED MINE TELEPHONE                             |
| 9B-135              | REPCO, INC  | 04/13/82          | MODELS RPX150 AND RPX450, 12 VDC, HAND-HELD TRANSCEIVERS                         |
| 9B-136              | AMERICAN MINE RESEARCH, INC   | 05/12/82          | MODEL MP-1105, 12 VDC, MINE DIAL/PAGE TELEPHONE SYSTEM                           |
| 9B-137              | BUTLER WINDING CORPORATION  | 05/06/82          | MODEL 45-7000, MINE PAGING TELEPHONE   |
| 9B-138              | NORTH AMERICAN PHILIPS CORP   | 05/06/82          | MODEL LFH0585/00, 9 VDC, BATTERY-POWERED PORTABLE TAPE RECORDER                  |
| 9B-139              | COMTROL CORP  | 06/24/82          | MODEL HD1503, LOCAL HEAT DETECTION SYSTEM  |
| 9B-140              | COMTROL CORP  | 10/08/82          | MODELS FD1511, 1511A, 1512 AND 1512A, 12 VDC, LOCAL FIRE DETECTION ALARM SYSTEMS |

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| 9B-141              | AMERICAN MINE RESEARCH, INC        | 06/08/82          | MODEL MP-1120, 12 VDC, MINE DIAL/PAGE TELEPHONE SYSTEM  |
| 9B-142              | THE ANTENNA SPECIALISTS CO         | 09/22/82          | MODEL R100A, 9 VDC, PERSONAL DISTRESS DEVICE  |
| 9B-143              | GAI-TRONICS CORP                   | 10/19/82          | TYPE 400, MINE DIAL/PAGE TELEPHONE SYSTEM   |
| 9B-144              | CREATIVE PRODUCTS                  | 12/06/82          | MODEL CPA-03 AND CPA-04, 9 VDC, BODY LIGHT  |
| 9B-145              | MITSUI MIIKE MACHINERY CO          | 03/04/83          | TYPE MTM11-ISX1, 9.6 VDC, BATTERY-POWERED RADIO REMOTE CONTROL TRANSMITTER                    |
| 9B-146              | COMTROL CORP                       | 01/25/83          | LM1539 AND LM1539B, 12 VDC, BATTERY-POWERED 5 LINE PAGE PHONE                                 |
| 9B-147              | EIMCO COAL                         | 01/05/83          | MODEL 6522-531-001, 4 VDC, REMOTE CONTROL PENDANT   |
| 9B-148              | A.R.F. PRODUCTS                    | 06/01/83          | MODEL ART-29, 11.7 VDC, VEST MANPACK TRANSCEIVER  |
| 9B-149              | GRINAKER ELECTRONICS LTD           | 05/05/83          | GRINAKER (SECOM) , 10 VDC, MEDIUM FREQUENCY SUBSTRATA RADIO COMMUNICATION EQUIPMENT           |
| 9B-150              | GENTEX CORP                        | 06/13/83          | MODEL NO. 6010-1, 7.2 VDC, BATTERY-POWERED CONVERSATIONAL COMMUNICATIONS UNIT AUDIT AMPLIFIER |
| 9B-151              | DRAEGERWERK AG                     | 07/14/83          | 1.5 MILLIVOLT, SOUND-POWERED COMMUNICATIONS SYSTEM  |
| 9B-152              | APPALACHIAN ELECTRONIC INSTRUMENTS | 10/03/83          | MODEL NO. 600, 9 VDC, BATTERY-POWERED PACKET PAGER  |

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| 9B-153              | MINE SAFETY APPLIANCES  | 08/31/83          | MODEL NO. 1680, 11.7 VDC, BATTERY-POWERED RADIO TRANSCEIVER                         |
| 9B-154              | MOTOROLA, INC   | 09/22/84          | "EXPO", 7.5 VDC, BATTERY-POWERED PORTABLE TRANSCEIVER                               |
| 9B-155              | GULTON INDUSTRIES<br>(TRANSFERRED TO FEMCO, DIV OF GAITRONICS ) | 11/01/83          | PART NOS. AM7011, AM7012, AM7021, AM7022, 12 VDC, BATTERY-POWERED PAGING TELEPHONES |
| 9B-156              | JABCO, INC  | 12/20/83          | MODEL NO. MTL-180 SOLID STATE AUDIO ALARM   |
| 9B-157              | MOTOROLA, INC   | 05/03/84          | MODEL NO. HT-440, 12.5 VDC, BATTERY-POWERED PORTABLE RADIO TRANSCEIVER              |
| 9B-158              | PYOTT-BOONE   | 06/29/84          | MODEL NO. 128, 12 VDC, BATTERY-POWERED, PORTABLE HAND-HELD PAGE PHONE               |
| 9B-159              | MINE SAFE ELECTRONICS, INC                                      | 08/13/84          | MODEL COMMUNICATOR III PAGE PHONE   |
| 9B-160              | PYOTT-BOONE   | 10/26/84          | MODEL NO. 261, AC POWERED PERMISSIBLE BELT FIRE DETECTION SYSTEM                    |
| 9B-161              | EARMARK, INC  | 10/17/84          | MODEL NOS. VAS-2, VASP-2, C AND CP VOICE AMPLIFIERS                                 |
| 9B-163              | PYOTT-BOONE   | 12/31/84          | MODEL NOS. 118 AND 119 PERMISSIBLE LINE-POWERED PAGE PHONE                          |
| 9B-164              | MINE SAFE ELECTRONICS, INC                                      | 11/09/84          | MODEL COMMUNICATION II A, P/N 51-110A PORTABLE MINE PHONE                           |
| 9B-165              | MOOG, INC   | 12/06/84          | MODEL NOS. 129-187 AND 129-190 RADIO SENDING UNIT                                   |

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| 9B-166              | MOOG, INC   | 02/07/85          | MODEL A74586 SENDING UNIT   |
| 9B-167              | EICKHOFF CORP   | 06/18/85          | MODEL 8SD6204 RADIO REMOTE CONTROL TRANSMITTER                          |
| 9B-168              | MATRIC LIMITED  | 08/27/85          | MODEL 500-713 RF TRANSMITTER  |
| 9B-170              | MATRIC LIMITED  | 11/18/85          | MODEL NOS. 500-193 AND 500-202 TRANSMITTER SYSTEM FOR MULTIPLEX CONTROL |
| 9B-171              | STOLAR, INC<br>(TRANSFERRED TO RIMTECH, INC.)<br>(TRANSFERRED TO NEW MEXICO STATE UNIVERSITY) | 05/30/86          | MODEL ISR-1 IN-SEAM RECEIVER  |
| 9B-172              | EICKHOFF CORP   | 01/07/87          | MODEL 1FS-11US REMOTE CONTROL RADIO TRANSMITTER                         |
| 9B-173              | MITSUI MIIKE MACHINERY LTD  | 02/10/87          | MODEL MTM14-X1-CP RADIO REMOTE CNTRL TRANSMITTER                        |
| 9B-174              | SIEMENS CORP  | 12/30/87          | MODEL 8SD6300 RADIO REMOTE CONTROL TRANSMITTER                          |
| 9B-176              | STOLAR, INC<br>(TRANSFERRED TO RIMTECH, INC.)<br>(TRANSFERRED TO CONSPEC CONTROLS)            | 02/24/88          | MODEL PCR-1 PERSONNEL CARRIED RADIO                                     |
| 9B-177              | STOLAR, INC<br>(TRANSFERRED TO RIMTECH, INC.)<br>(TRANSFERRED TO CONSPEC CONTROLS)            | 03/03/88          | MODEL PR-3 PORTABLE RADIO   |
| 9B-178              | UTAH POWER AND LIGHT,<br>(TRANSFERRED TO ENERGY WEST MINING COMPANY)                          | 07/29/88          | MODEL LM1576 BELT CONTROL INTERFACE                                     |

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| 9B-179              | HAUTE TECHNOLOG-<br>IES MINE Et IND.  | 08/16/88          | MODEL H TELS SAFE DV REMOTE<br>CONTROL TRANSMITTER                          |
| 9B-180              | HAUTE TECHNOLOG-<br>IES MINE Et IND.  | 09/01/88          | MODEL ML TELS SAFE DV REMOTE<br>CONTROL TRANSMITTER                         |
| 9B-181              | HAUTE TECHNOLOG-<br>IES MINE Et IND.  | 09/26/88          | MODEL CT TELS SAFE DV REMOTE<br>CONTROL TRANSMITTER                         |
| 9B-182              | BRITISH JEFFREY<br>DIAMOND  | 01/18/89          | MODEL H150 RADIO REMOTE<br>CONTROL SYSTEM                                   |
| 9B-183              | MAGNUM<br>DISTRIBUTION  | 09/21/89          | MODEL EM-200W "EAR-MIKE"<br>HANDWIRE LIFELINE INTERCOM<br>SYSTEM            |
| 9B-184              | MOOG CONTROLS   | 08/06/90          | 9.6 V, BATTERY-POWERED<br>MODEL E140K901 RADIO<br>REMOTE CONTROL SYSTEM     |
| 9B-185              | SOUTHERN OHIO<br>COAL COMPANY   | 08/31/90          | 120 V, MODEL AEP-3101-1<br>PERMISSIBLE BELT CONTROL<br>SYSTEM               |
| 9B-186              | CATTRO, INC   | 11/16/90          | MODEL CAT 864-MI, RF<br>TRANSMITTER ASSEMBLY, 12.5<br>VOLT, BATTERY-POWERED |
| 9B-187              | STOLAR, INC<br>(TRANSFERRED TO<br>RIMTECH, INC.)<br>(TRANSFERRED TO<br>CONSPEC COTNROLS ) | 12/04/90          | MODEL RPT-6 PERMISSIBLE<br>REPEATER TRANSCEIVER                             |
| 9B-188              | MOTOROLA, INC   | 03/05/91          | MODEL MT1000, SERIES<br>PORTABLE RADIO                                      |
| 9B-190              | SIMMONS-RAND  | 10/17/91          | MODEL 200 PERMISSIBLE<br>REMOTE CONTROL CONSOLE                             |
| 9B-191              | MOOG, INC   | 08/20/92          | MODEL 140-XXX OPERATOR/<br>TRANSCEIVER UNIT                                 |

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| 9B-192              | MOOG, INC  | 10/19/92          | MODEL 129-238 RADIO SEND UNIT                                   |
| 9B-193              | MECO INTERNL.<br>(TRANSFERRED TO JOY )                               | 11/13/92          | MODEL HHDU-1 HAND HELD<br>TERMINAL                              |
| 9B-194              | CONSOLIDATION<br>COAL COMPANY  | 12/22/92          | HAWKEAR MODEL TCU-101 TELE-<br>PHONE COUPLER                    |
| 9B-195              | LOGI-TEC, INC  | 05/06/93          | MODEL DV5A FIRE SENSOR<br>MONITOR                               |
| 9B-196              | EL-EQUIP, INC<br>(TRANSFERRED TO MINE RADIO<br>SYSTEMS INC. )        | 06/16/93          | MODEL VHF-1 RADIO SYSTEM  |
| 9B-197              | VOEST ALPINE<br>C/O SERVICE MACHINE                                  | 06/08/93          | TYPE 3261 REMOTE CONTROL<br>TRANSMITTER                         |
| 9B-198              | BWI EAGLE, INC   | 11/17/93          | MODEL NO. 30-1000 "EAGLE-EYE"<br>INFRARED REMOTE<br>TRANSMITTER |
| 9B-199              | CON SPACE COMM-<br>UNICATIONS, LTD                                   | 11/12/93          | MODEL CSI-2000 CONFINED SPACE<br>INTERCOM SYSTEM                |
| 9B-200              | STRUCTURED MININE<br>SYSTEMS, INC                                    | 12/08/93          | MODEL TX-100 TRANSMITTER  |
| 9B-201              | DAC  | 02/28/94          | TYPE RFM 2000 RADIO SYSTEM                                      |
| 9B-202              | RIMTECH, INC.<br>(TRANSFERRED TO<br>NEW MEXICO STATE<br>UNIVERSITY ) | 04/14/94          | RIM 20/20 RECEIVER  |
| 9B-203              | RIMTECH, INC.<br>(TRANSFERRED TO<br>NEW MEXICO STATE<br>UNIVERSITY ) | 05/16/94          | RIM 20/20 TRANSMITTER   |
| 9B-204              | PEMPEK SYSTEMS<br>(NAME CHANGED TO<br>FORCED POTATO, INC. )          | 05/25/94          | TYPE 3261& ALT TYPE ABLs<br>REMOTE CONTROL TRANSMITTERS         |

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| 9B-205              | MOOG, INC.   | 06/24/94          | MDL. 140-1XX OPERATOR/<br>TRANSCEIVER UNIT.                                   |
| 9B-206              | RIMTECH, INC.<br>(TRANSFERRED TO<br>CONSPEC CONTROLS ) | 07/07/94          | HAND-HELD RADIO   |
| 9B-207              | AMERICAN MINING<br>ELECTRONICS, INC.                   | 12/27/94          | MDL. 8077 INFRARED REMOTE<br>CONTROL UNIT                                     |
| 9B-208              | MATRIC LTD.  | 01/05/95          | MDLS 205-757, 205-829, AND<br>205-875 RADIO TRANSMITTER<br>FOR REMOTE CONTROL |
| 9B-209              | STRUCTURED MINING<br>SYSTEMS INC.                      | 04/25/95          | MDL. TX-8XX TRANSMITTER<br>ASSEMBLY   |
| 9B-210              | RIMTECH INC.<br>(TRANSFERRED TO<br>CONSPEC CONTROLS )  | 05/25/95          | PART NO. 911075 PAGING<br>RECEIVER  |
| 9B-211              | BSI COMMUNICATIONS                                     | 09/27/95          | DML. 200-001 COMMUNICATION<br>SYS   |
| 9B-212              | MOTOROLA, INC.   | 01/22/96          | MT2000 SERIES, 8V, BATTERY<br>POWERED PORTABLE RADIO                          |
| 9B-213              | MOTOROLA, INC.   | 01/22/96          | HT1000 SERIES, 8V, BATTERY<br>POWERED PORTABLE RADIO                          |
| 9B-214              | MOOG CONTROLS LTD.                                     |                   | 04/03/96 MDL. E140K980-XYZ<br>RADIO CONTROL SEND UNIT                         |
| 9B-215              | STRUCTURED MINING<br>SYSTEMS, INC.                     | 06/11/96          | MDL. TX-5XX TRANSMITTER   |
| 9B-216              | MOTOROLA, INC.   | 06/13/96          | MT2000/HT1000 SERIES PORTABLE<br>RADIO  |
| 9B-217              | FERNSPRECH- &<br>SIGNALBAU GmbH & CO.                  | 12/16/96          | TYPE F5069 SOUND PWR<br>TELEPHONE   |
| 9B-218              | LONG-AIRDOX CO.  | 11/07/97          | MODEL 491813 TRANSMITTER  |

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| 9B-219              | MINE RADIO SYSTEMS                                      | 11/07/97          | FLEXCOM COMMUNICATIONS SYSTEMS  |
| 9B-220              | JOY MINING MACH.  | 02/11/99          | MODELS TX1, TX2, RADIO TRANSMITTER  |
| 9B-221              | GAI-TRONICS CORP.                                       | 04/01/99          | MODEL 491-204 MINE DIAL PAGE PHONE  |
| 9B-222              | IMC TECHNICAL SERVICES, LTD                             | 10/05/99          | MODEL M-COMM COMMUNICATIONS SYSTEM  |
| 23-A040001          | Audio Pack<br>(TRANSFERRED TO UNDERSEA SENSOR SYSTEMS ) | 1/23/04           | Model BG4 Amplifier   |
| 23-A050001          | VARIS Mine Tech.  | 03/08/05          | Model IS Leaky Feeder Communication System                                  |
| 23-A060001          | Marco North America                                     | 04/19/06          | PRIM Model PTT-1 Personal Tracking Transmitter                              |
| 23-A060002          | Kenwood USA Corp.                                       | 04/19/06          | Kenwood Models TK-290 and TK-390 Two-Way Radio Transceivers and Accessories |
| 23-A060003          | Matrix Design Group                                     | 12/19/06          | Model Matrix Tracker T1000 RFID Tag   |
| 23-A070001          | NL Technologies   | 05/03/07          | Model Standalone WiFi Tag   |
| 23-ISA070001        | NL Technologies   | 05/03/07          | Model WiFi Tag Circuit  |
| 23-A070002          | Stolar Horizon, Inc.                                    | 12/21/07          | Model RGUI04-001 Remote Control Graphical User Interface                    |
| 23-A070003          | Venture Design  | 05/18/07          | Model MLT Mobile Location Transponder Tag Device                            |
| 23-A070004          | Wholesale Mine Supply, LP                               | 08/14/07          | Model i-Q8X RFID Tag  |
| 23-A070005          | Tunnel Radio of America                                 | 09/27/07          | Model UltraComm Distributed Antenna Communication System                    |

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| 23-A070006          | Mine Radio Systems                   | 11/07/07          | Model TP2 Self Powered Transponder                                 |
| 23-A070007          | American Mine Research               | 12/20/07          | Model Mine Net Tag   |
| 23-A080001          | Venture Design Services, Inc.        | 01/23/08          | MineTracer Miner Location Monitoring System                        |
| 23-A080002          | Venture Design Services, Inc.        | 04/09/08          | Model TMLT Text-Messaging Location Transponder                     |
| 23-A080003          | Becker Electronics                   | 05/15/08          | Becker Leaky Feeder System   |
| 23-A080004          | Pyott-Boone Elec.                    | 04/29/08          | Model 1980 RFID Tracking Tag                                       |
| 23-A080005          | Tunnel Radio of America              | 05/01/08          | Model MineAx T1 RFID Tracking Tag                                  |
| 23-ISA080005        | Innovative Wireless Technologies     | 08/08/08          | Fixed Mesh Node, with Antenna and Battery System                   |
| 23-A080006          | Extronics Ltd.                       | 05/02/08          | Model iTAG100/BWH3000 RFID Tag                                     |
| 23-A080007          | Motorola, Inc.,                      | 07/30/08          | Model HT750 Series Two Way Radio                                   |
| 23-A080010          | NL Technologies                      | 08/05/08          | Digital Communications System                                      |
| 23-A080011          | Conspec Controls                     | 07/21/08          | 911152 personnel Tracking Transmitter                              |
| 23-A080012          | Mine Site Technologies Pty Ltd.      | 07/23/08          | Model T3i-SC RFID Transceiver Tracking Tag                         |
| 23-A080013          | Matrix Design Group LLC.             | 08/06/08          | MDG METS 2.1 Miner Tracking System                                 |
| 23-A080014          | SubterraCom Wireless Solutions, LLC. | 08/21/08          | Subterra-M8, Model 810T Wireless Tracking and Communication Device |
| 23-A080015          | L-3 Communications                   | 09/16/08          | ACCOLADE Wireless Mesh Communication System                        |

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| 23-A080016          | Innovative Wireless Technologies  | 09/30/08          | Sentinel Wireless Mesh Communication System  |
| 23-A080017          | Active Control Tech.  | 09/09/08          | ActiveMine Ekahau T301 Tracking Tag  |
| 23-A080018          | WaveTrend Tech.   | 10/10/08          | Models TG100, TG501, TG800 And TG800-IH Series Tags  |
| 23-A080019          | Hughes Supply Co.   | 10/10/08          | Model HSC RDR __02 Radio Repeater  |
| 23-A080020          | Alion Science & Tech.<br>(Transferred to L3-Communications )  | 11/13/08          | ASM 100001 Accolade Miner Mesh Radio Handset   |
| 23-A090001          | Minecom, a Division of TR Corporation Pty. Ltd.<br>(Name changed to Minecom, a Division of TR Pty Ltd. )<br>(Transferred to Pyott-Boone Electronics ) | 01/08/09          | Model MCA 2000 UHF Leaky Feeder System   |
| 23-ISA090001        | Becker Electronics<br>(PTY ) LTD  | 06/12/09          | Becker Cap Lamp Tag  |
| 23-A090002          | Active Control Tech.  | 02/03/09          | Model ActiveMine AM1000 Wireless Mesh Communication System   |
| 23-A090007          | Matrix Design Group   | 05/21/09          | P/N 2WC-T Two-Way Text Communicator  |
| 23-A090008          | Active control Tech.  | 04/22/09          | Model 8035 Telephone<br>(SpectraLink 8030 Telephone and Active Control Technology ACT001 Battery ) |
| 23-A090003          | MineCom, a Division Of TR Pty Ltd<br>(Transferred to Pyott-Boone Electronics )  | 08/06/09          | Model MCA 1000 VHF Leaky Feeder System   |
| 23-A090004          | Becker Electronics<br>(PTY ) LTD  | 06/17/09          | Becker Vehicle Tag   |

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| 23-A090006          | Becker Electronics<br>(PTY) LTD                              | 06/18/09          | Becker Helmet Tag   |
| 23-A090010          | Kutta Technologies<br>(Transferred to<br>Kutta Radios, Inc.) | 07/27/09          | Model Drum 100R Medium<br>Frequency Communication System          |
| 23-A090011          | Pyott Boone Elect.   | 08/12/09          | Model Tracker Boss Tagging<br>System                              |
| 23-A090012          | Rajant Corp.   | 09/17/09          | Breadcrumb® Portable Wireless<br>Mesh Network Node Model<br>WE-IS |
| 23-A090013          | American Mine<br>Research                                    | 10/20/09          | Model MN-6000 Mine Net Wireless<br>Tracking and Tagging System    |
| 23-A090014          | American Mine<br>Research                                    | 10/09/09          | Model 6210 Mine Net Messenger<br>two-way test messaging device    |
| 23-A090015          | L-3 Communications   | 12/8/09           | ACCOLADE Tracking Beacon  |
| 23-A090017          | L-3 Communications   | 11/24/09          | Model TTTR-01 Tru-Tracker Tag<br>Reader                           |
| 23-A100001          | American Mine Res.   | 01/13/10          | Model MN-6215 Dual Channel<br>Wireless Transceiver                |
| 23-A100002          | Tunnel Radio of<br>America                                   | 02/04/10          | Model Tr-MX-332 MineAx RFID<br>Tracking System                    |
| 23-A100003          | Mine Site Tech.  | 02/18/10          | Impact I.S. Communications System                                 |
| 23-A100004          | NL Technologies  | 03/18/10          | Portable Access Node  |
| 23-A100005          | Special Electronics &<br>Designs Inc.                        | 03/25/10          | Rescom Modular Intercom System                                    |
| 23-ISA100001        | Becker Electronics<br>(Pty) Ltd                              | 03/15/10          | Models TCT0 234 and TCT0 334<br>Cap Lamp Tags                     |

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| 23-ISA100002        | Becker Electronics  | 06/16/10          | TCT1 4XX Cap Lamp Tag   |
| 23-A100006          | Mine Site Tech.   | 06/24/10          | Model MP70 MinePhone  |
| 23-A100007          | Innovative Wireless   | 07/26/10          | Sensor Mesh Interface System  |
| 23-A100008          | Argon ST, Inc.  | 07/22/10          | StrataCommTrac Model C201<br>Subsurface Communication Node                      |
| 23-A100009          | Kutta Technologies<br>(Transferred to<br>Kutta Radios, Inc. ) | 08/20/10          | Model DRUM 100P Portable Medium<br>Frequency Radio                              |
| 23-A100010          | Becker Electronics<br>Pty. Ltd.                               | 11/19/10          | Model UFMR-100 and VFMR-100<br>Portable Radios                                  |
| 23-A100011          | Matrix Design Group   | 12/17/10          | MDG Two-Way Communicator<br>Handheld Tracker P/N: 2WC-HT                        |
| 23-A100012          | Argon ST, Inc.  | 11/19/10          | StrataCommTrac Model C202<br>Miner Communicator                                 |
| 23-A110001          | InSet Systems, LLC.   | 01/19/11          | P/N 10000000AA-00 Tracking,<br>Voice and Test Communication<br>System           |
| 23-A110002          | Lockheed Martin   | 07/19/11          | MagneLink Magnetic Communication<br>System (MCS ) Model No.<br>03538-MCS-UP-001 |
| 23-A110003          | Kutta Technologies<br>(Transferred to<br>Kutta Radios, Inc. ) | 06/24/11          | DRUM TTR-100 Tracking Tag<br>Receiver   |
| 23-A110004          | Kutta Technologies<br>(Transferred to<br>Kutta Radios, Inc. ) | 06/24/11          | Model 100S UHF/VHF<br>Communication System                                      |
| 23-A110005          | Newtrax Technologies<br>Inc.                                  | 11/16/11          | Model Network Infrastructure Device   |
| 23-A120001          | Innovative Wire   | 02/16/12          | Model <i>SENTINEL</i> Beacon  |

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|                     | Technologies                |                   |   |
| 23-A120002          | NL Tech.                    | 03/15/12          | Model Ranger Phone                                  |
| 23-A120003          | L3 Communications           | 04/18/12          | ACCOLADE Miner Mesh Locator<br>(MML )               |
| 23-A120004          | Mine Radio Systems          | 05/30/12          | Model MultiCOM Leaky-Feeder<br>Communication System |
| 23-A120005          | Innovative Wireless<br>Tech | 06/20/12          | Model Sentinel Mesh Handset<br>Two-Way Radio        |