

MSHA Approved Communications & Tracking Technologies

Revised January 6, 2009 (Updated Item Highlighted in Yellow)

The following is a listing of the various MSHA approved communications and tracking products. Some products may belong in multiple categories in which case we placed them in what we considered to be the primary use category. Please direct any issues to our attention so that we can make necessary changes.

Communication System Peripherals

Manufacturer	Model Number	Product Type	Approval #
Kenwood USA Corporation	TK-290, TK-390	VHF or UHF Portable Radio	23-A060002-0
Venture Design Services, Inc.	Model TMLT Text Messaging Location Transponder	Tracking Tag and Text Messaging Device	23-A080002-0
Motorola	HT750	VHF or UHF Portable Radio	23-A080007-0
SubterraCom Wireless Solutions, LLC	Model 810T	Wireless Tracking and Communication Device	23-A080014-0
Hughes Supply Company	HSC RDR_02	Radio Repeater	23-A080019-0
L-3 Communications	ASM100001 Accolade	Mesh Radio Handset	23-A080020-0

Leaky Feeder Communication Systems

Manufacturer	Model Number	Approval #
Mine Radio Systems	Flexcom Communications Systems	9B-219
Varis Mine Tech.	Model IS Leaky Feeder Communication System	23-A050001
DAC	Type RFM 2000 Radio System	9B-201
EL-EQUIP, INC	Model VHF-1 Radio System	9B-196
Tunnel Radio of America	Model UltraComm Distributed Antenna Communication System	23-A070005-0
Becker Electronics (PTY) LTD	Becker Leaky Feeder System	23-A080003-0

Mine Page Phones

Manufacturer	Model Number	Approval #
Comtrol Corporation	"Loudmouth" Page Phones	9B-71
Gai-Tronics	Model 491-204 Mine Dial Page Phone	9B-221
Gai-Tronics	Part Nos. AM7011, AM7012, AM7021, AM7022 Loudspeaking Telephones	9B-155
Pyott Boone	Model Nos. 112 and 112P, 118 and 119 Page Phones	9B-102, 9B-163
Pyott-Boone	Model 128 Mini Page Boss	9B-158
Mine Safe Electronics	Model IIA Mine Phone	9B-164
Mine Safety Appliances (MSA)	Pager III	9B-85

Paging/Text Messaging Systems

Manufacturer	Model Number	Approval #
Mine Site Technologies	Model PED1	6D-46-0
Mine Site Technologies	ICCL Integrated Communications Cap Lamp with Optional PED	23-ISA080002-0
NL Technologies	Model GII Cap Lamp Messenger Circuit	23-ISA070004-0
Stolar Horizon, Inc.	RGU104-001 Remote Graphical User Interface	23-A070002-0

Radio Frequency Identification (RFID) Tracking Components / Systems

Manufacturer	Model Number	Product Type	Approval #
Mine Site Technologies	Model TAG IV Transmitter	Tracking Tag	2G-4162-0
Marco	Model PRIM Model PTT-1	Tracking Tag	23-A060001-0
Matrix Design Group, LLC	Model MatrixTracker T1000 RFID Tag	Tracking Tag	23-A060003-0
NL Technologies	Model Standalone WiFi RFID Tag	Tracking Tag	23-A070001-0
NL Technologies	Cap Lamp with RFID Tag	Tracking Tag	23-ISA070001-0
Venture Design Services	MLT Mobile Location Transponder Tag	Tracking Tag	23-A070003-0
Wholesale Mine Supply	Model i-Q8X rfid Tag	Tracking Tag	23-A070004-0
Koehler-Bright Star	Model TAG5 Tracker Tag Module	Tracking Tag	23-ISA070002-0
Koehler-Bright Star	Model MultiTAG TP1 Transmitter TAG PCB Assembly	Tracking Tag	23-ISA070003-0
Mine Radio Systems	Model TP2/ISPT	Tracking Tag	23-A070006-0
American Mine Research, Inc.	Model Mine Net Tag	Tracking Tag	23-A070007-0
Pyott-Boone	Model 1980 Tracking Tag	Tracking Tag	23-A080004-0
Tunnel Radio of America	Model MineAx T1 RFID Tracking Tag	Tracking Tag	23-A080005-0
Extronics Ltd.	Model iTAG100/BWH3000 Tag	Tracking Tag	23-A080006-0

Radio Frequency Identification (RFID) Tracking Components / Systems
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Manufacturer	Model Number	Product Type	Approval #
Wavetrend Technologies, Inc.	TG100, TG501, TG800 and TG800-IH	Tracking Tag	23-A080018-0
Conspec Controls	911152 Personnel Tracking Transmitter	Tracking Tag	23-A080011-0
Mine Site Technologies	T3i-SC RFID	Tracking Tag	23-A080012-0
Matrix Design Group, LLC	MDG METS 2.1 Miner Tracking System	RFID Tracking System	23-A080013-0
Active Control Technology, Inc.	ActiveMine Ekahau T301	Tracking Tag	23-A080017-0

Wired Intercom Systems

Manufacturer	Model Number	Approval #
Con-Space Communications	Model CSI-2000 Confined Space Intercom System	9B-199-0

Wireless Mesh Communications and/or Tracking Systems

Manufacturer	Model Number	Product Type	Approval #
Venture Design Services, Inc.	MineTracer Miner Location Monitoring System	IEEE 802.15.4 Text Messaging and Tracking System	23-A080001-0
Innovative Wireless Technologies	Fixed Mesh Node, with Antenna & Battery	Fixed Mesh Node	23-ISA080005-0
L-3 Communications	ACCOLADE	Wireless Mesh Communication and Tracking System	23-A080015-0

Fixed WiFi 802.11 Networks

Manufacturer	Model Number	Product Type	Approval #
NL Technologies	Digital Communications System	IEEE 802.11 mesh network over fiber System	23-A080010-0