

INCIDENT COMMUNICATIONS SECTION

NIICD CDO: 208-387-5644

NIICD FAX: 208-387-5892

The USDA Forest Service (FS) and the Department of the Interior (DOI) maintain the National Incident Radio Support Cache (NIRSC) at the National Interagency Fire Center (NIFC). The NIRSC is a national interagency resource and is composed of multi-channel radio equipment that is available for all-risk, incident or project communications. Priority for the use of this equipment will be for active fire incidents.

► For assistance with system design, ordering, or equipment installation, call the Communications Duty Officer (CDO) at the National Interagency Incident Communications Division (NIICD). **NIICD CDO available 24 hours a day at 208-387-5644.** NIICD Fax number is 208-387-5892.

► All communications equipment must be ordered through the established mobilization procedures using a resource order as outlined in the National Interagency Mobilization Guide (NFES 002092). The “Mobe Guide” is also available on line at <http://www.nifc.gov/nicc/logistics/references.htm>.

► All communications equipment and accessories are the property of the NIRSC and must be returned for refurbishment as soon as an incident has been demobilized. **Lost or damaged equipment must be properly documented. Lost or stolen radios must be reported immediately to the NIICD Chief Rework/Supply as well as Law Enforcement.** Contact the NIICD Chief Rework/Supply at 208-387-5645 or the NIICD CDO at 208-387-5644.

► All frequencies must be approved for use on all incidents and/or projects. Call the NIICD CDO for frequency authorization. Latitudes and longitudes of the incident must be provided at the time of the order to facilitate frequency planning.

► A NIRSC User’s Guide (NFES 000968) can be found in the Command Repeater Kit. Refer to the section on batteries for information on the use of clamshells. The subkits listed define the costs for the different radio brands. The subkit numbers are for accountability purposes only and should not be used when ordering.

PROJECT REQUESTS:

Communications equipment for projects, e.g., Forest Health Protection (FHP), are shared with many users. For that reason, it is requested that required project use time frames be kept to a minimum. The equipment should be expedited back to the NIRSC at NIFC immediately upon completion. **The requestor (project) will pay for the shipping charges to and from NIFC as well as the equipment refurbishment costs.** Refurbishment costs pertain to the replacement of batteries used on the project. There will be no further costs unless the radios are lost, damaged or stolen.

The standard kits available to support projects are NFES #004381, #004312, #004300, and #004330. Other types of equipment may be available if the project should have unusual requirements. All orders for communications equipment must be submitted on a resource order per the established National Interagency Mobilization procedures.

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GENERAL INFORMATION REGARDING RADIO BATTERIES:

▶ When ordering batteries, order by the “unit of issue” stated in this catalog, but round-up the order to equal the full STD PK quantity. Refer to the standard pack (STD PK) entry in the Radio Battery Matrix of this section. **The NIRSC does not stock batteries.**

▶ All of the radio batteries utilized by the NIRSC are of alkaline technology. Alkaline batteries normally have a shelf life of at least two years. Newer alkaline batteries now have a shelf life of up to 5 years. **Alkaline batteries are not considered hazardous waste, except in California and should be disposed of at the incident.**

▶ Repeater batteries should last 5 to 7 days under heavy usage. Disposable batteries on a two-watt radio should last a full shift. The clamshell battery life will depend entirely upon the AA cells installed. Fresh, quality AA cells should perform nearly as well as a disposable battery. As per Bendix-King, all NIRSC UHF and VHF King DPHx and EPV handheld radios must use 9-cell clamshell battery holders (NFES #001034).

▶ Using a voltmeter to determine the state of an alkaline battery can yield very inconsistent results. A battery that no longer works on a repeater and has not had a load placed on it for several days may give a reading of “good” on a voltmeter because the voltmeter does not apply the proper current load.

▶ **Check batteries with the transmitter keyed.** Replace the batteries on the Daniels repeaters if the voltage is at 10.5 volts with the transmitter operating. Starting voltage is about 15 volts when the transmitter is in operation. The transmit LED is the best indicator of battery life on the portable radios. If the light holds bright for 3 seconds while transmitting, the battery should be in good condition.

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RADIO / KIT BATTERY MATRIX

BATTERIES

NFES #	000030	000033	001023	001241
VOLTAGE	1.5 V (AA)	1.5 V (D)	7.5 V	9 V (Transistor)
STD PK	24 / PG	12 / PG	4 / BX	24 / BX

RADIO BATTERY REQUIREMENTS

Note: Numbers reflect batteries required per clamshell.

ICOM IC-A3	10			
KING (DPHX/EPV) 9-CELL	9			
THALES RACAL	10			
XTS-2500/5000, DATRON GUARDIAN 25	12			
MIDLAND, ICOM IC-A6	6			

KIT BATTERY REQUIREMENTS

Note: Numbers reflect batteries required per equipment unit.

REPEATERS & LINKS 004248,004281, 004312			4	
GRND A/C 004300, 004370	40		4	
REMOTE 004330			4	
P.A. 004410	4	20		1

ALL RADIO BATTERY HOLDERS (CLAMSHELLS) MUST BE RETURNED TO NIRSC.

WHERE LEGAL, DISPOSE OF USED BATTERIES AT THE INCIDENT TO SAVE SHIPPING COSTS.

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AIR ATTACK KIT \$27,869.46

NFES 004499

Loc: GBK
WT: 57 lb
CU: 5.1 ft
DIM: 32"x21"x13"

This kit will ONLY be installed in aircraft meeting National Air Tactical/Reconnaissance Standards and passing an avionics inspection by a qualified Forest Service/AMD Avionics Inspector.

The Air Attack Kit is built to supplement communications in contracted fixed-wing aircraft for missions ranging from reconnaissance to complex air attack. This kit can fit between the pilot and co-pilot seats in some aircraft (i.e. Cessna) and slightly behind the front seats in other aircraft. This kit creates an interface between the aircraft's existing audio system /radios and the Air Attack kit radios. All kits have the capability to operate two (2) Technisonic Industries radios. Each kit will have two (2) TDFM-136 radios.

The NFES 004499 Air Attack Kit has a Dual Audio Control (COM/FM1/FM2/AUX1/AUX2/SC) for the pilot and co-pilot/ATGS, connectors for two AUX-FM type portable radio adapters, and two passenger headset adapters. Kit headset jacks are 600 OHM impedance using standard audio and microphone type connectors. The pilot and co-pilot/ATGS utilize case-mounted headsets. Both passengers can operate all radios through the co-pilot/ATGS's transmitter selector. The "SC" position is simulcast transmissions on both COM (aircraft VHF-AM) and FM1. Each kit includes two passenger headset adapters, two PT-300 PTT adapters, two BNC barrel connectors (for AUX-FM antenna connections) and instructions. Two externally mounted VHF-FM antennas are also required.

The NFES 004499 Air Attack AUX-FM portable radio adapter connectors accept the same adapter connections used in all helicopters.

NFES	QTY	DESCRIPTION
004066	2 EA	Radio, TDFM-136, P-25
004339	2 EA	Connector, Barrel, BNC
004479	1 EA	Chassis, Air Attack (Model TAK 100)
004490	2 EA	Strap, Tie Down
005086	1 EA	Pelican Case, Tan (1650-Protector)
	2 EA	Adapter, PTT, PT-300
	2 EA	Adapter, Headset
	1 EA	Cable, Power
	1 EA	Cable, Audio/Mic
	1 EA	Operator's Guide, TDFM-136
	2 EA	Information Sheet, Air Attack
	2 EA	Information Sheet, TDFM-136, Basic Programming
	1 EA	Information Sheet, TDFM-136 CMD Quick Ref Guide

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AIR ATTACK KIT (TRAINING) \$1,286.17

NFES 004604

Loc: GBK
LOC: GBK
WT: 55 LB
CU: 4.5
DIM: 20"x32"x12"

NFES	QTY	DESCRIPTION
004059	1 EA	Radio Adapter, IC-A3, OPC-449
004060	1 EA	Headset, Aviation, Dual Impedance, David Clark, H10-66
004062	1 EA	Headset, Davis Clark, H10-21
004180	1 EA	Adapter, Helmet, U-92C/U To M642/5-1 & M642/4-1
004228	1 EA	BNC 90 Degree Adapter
004339	1 EA	Power Supply, 12V DC/20AMP, Astron
005086	1 EA	BNC Barrel Adapter
005328	1 EA	Pelican Case, Black
	1 EA	Headset Adapter, King
	2 EA	Antenna, VHF, BNC
	1 EA	Cable, RF, 12 Inch
	2 EA	Cable, RF, 6 Inch, RG-174
	2 EA	Dummy Load, 25 Watt
	1 EA	Instruction Booklet
	2 EA	Lead Seals

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AIRBASE KIT
\$28,010.67

NFES 004660

LOC: GBK

TOTAL 3 PIECES: WT: 110 LBS

CU: 8.0

Piece 1/BOX:	Piece 2/BOX	Piece3/MASTS
WT: 51 LBS	WT: 35 LBS	WT: 15 LBS
CU: 3.65 FT	CU: 3.5 FT	CU: 1.0 FT
DIM: 20"x21"x15"	DIM: 20"x21"x15"	DIM: 30"x3"x3"

The 004660 Airbase kit is for MAFFS activations and temporary tanker bases. This kit provides a means to communicate with aircraft in noisy environments. It comes with a portable VHF-AM/VHF-FM base station radio, 10 handheld ICOM VHF-AM radios, and eight (8) sets of headsets, helmet adapters, and adapters to connect a headset/helmet to the ICOM radio. The VHF-FM base station can monitor both a main frequency and Air Guard. The base station radio is configured to operate on 115 VAC but, when requested, 12 VDC or 24 VDC power cables can be included for use with a deep cycle automotive/marine battery (Not supplied. Will need to be purchased locally). When additional handheld VHF-AM radios are needed, order the NFES 004240 Airbase Accessories kit.

NFES	QTY	DESCRIPTION	
BOX 1 CONTENTS:			
001086	8 EA	Harness, Chest, Radio	
004059	8 EA	Adapter, Headset to Radio, ICOM, OPC-499	
004060	4 EA	Headset, Aviation, Dual Impedance, David Clark, H10-66	
004061	4 EA	Headset, Aviation, David Clark, H10-21	
004062	8 EA	Adapter, Helmet, U-92A/U to M642/5-1 & M642/4-1	
004138	8 EA	PTT Switch, Remote, ICOM, PTT SW	
004306	1 EA	Liner, Foam, Radio Kit	
004309	1 EA	Box, Fiberglass	
004321	10 EA	Radio, Aviation Handheld, ICOM, IC-A6 (capitalized)	
004405	2 EA	Speaker Mic, ICOM, HM-173	
004491	10 EA	Holder, Battery, AA, ICOM, BP-208N	
004492	11 EA	Antenna, ICOM, FA-B02AR	
004830	120 EA	Battery, AA	
	8 EA	Radio Quick Reference Card, ICOM, IC-A6	8 EA
	25 EA	T-Cards, Radio Tracking	25 EA
	3 EA	Frequency Sheets, ICOM	3 EA
	24 EA	Pads, Alcohol, Headset Cleaning	24 EA
	2 EA	Lead Box Seal	2 EA
BOX 2 CONTENTS:			
000825	6 EA	Tent Stakes	
004066	1 EA	Radio, Aviation, TDFM-136 (capitalized)	
004143	1 EA	Headset, Single Dome, David Clark, Modified, H34-92	

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AIRBASE KIT (continued)

004304	1 EA	Hammer, 4 lb
004308	2 EA	Guy Assembly, Antenna
004309	1 EA	Box, Fiberglass
004323	1 EA	Radio, Airbase VHF-FM/AM, TAF-550 (capitalized)
004326	4 EA	Cable, Coaxial, w/2 ea 4327 (PL-269)
004339	3 EA	Adapter, Barrel Connector, UHF
004343	1 EA	Antenna, VHF/AM, AV-1
004464	1 EA	Antenna, VHF Whip, W/PO-150 Load
004477	2 EA	Adapter, UHF-F to BNC-M
004489	1 EA	Base Antenna, VHF W/ Ground Planes
	2 EA	Adapter, N-f to BNC-M
	1 EA	Information Sheet, TDFM-136, Basic Programming
	1 EA	Information Sheet, TDFM-136, Quick Reference Guide
	1 EA	Information Booklet, TAF-550
	1 RO	Flagging Tape
	1 RO	Filament Tape
	1 EA	Allen Wrench
	1 EA	Garbage Bag
	1 EA	Fuse, 5A-AGC (in rear of TAF-550)
	1 EA	Fuse, 7.5A-MDL (in rear of TAF-550)
	1 EA	Fuse, 3A-MDL (in rear of TAF-550)
	1 EA	Fuse, 2A-MDL (in rear of TAF-550)
	1 EA	115VAC Power Cable (in rear of TAF-550)
	1 EA	Microphone, Handheld (in rear of TAF-550)
004305	6 EA	Mast, Antenna, 5 Ft. Section



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AIRBASE ACCESSORY KIT \$ 4,241.97

NFES 004240

LOC: GBK
WT: 25 LB
CU: 3.6
DIM: 25"x20"x9"

The NFES 4240 Airbase Accessories kit is for aircraft communications by ground personnel at airports and heli-bases. This kit provides a means to communicate with aircraft in noisy environments. The kit comes with five (5) sets of handheld ICOM VHF-AM radios, headsets, and helmet adapters to connect a headset/helmet to the ICOM radio.

NFES	QTY	DESCRIPTION
001086	5 EA	Harness, Chest, Radio
004059	5 EA	Adapter, Headset to Radio, ICOM, OPC-499
004061	5 EA	Headset, Aviation, David Clark, H10-21
004062	5 EA	Adapter, Helmet, U-92A/U To M642/5-1 & M642/4-1
004138	5 EA	PTT Switch, Remote, ICOM, PTT SW
004405	2 EA	Speaker Mic, ICOM, HM-173
004321	5 EA	Radio, Aviation Handheld, ICOM, IC-A6
004491	5 EA	Holder, Battery, AA, ICOM, BP-208N
004492	6 EA	Antenna, ICOM, FA-B02AR
004497	1 EA	Holder, Radio, ICOM, LC-159
004830	60 EA	Battery, AA
005088	1 EA	Case, Pelican-1600
	5 EA	Radio Quick Reference Card, ICOM, IC-A6
	2 EA	Frequency Sheet
	25 EA	T-Cards, Radio Tracking
	15 EA	Pads, Alcohol, Headset Cleaning
	2 EA	Lead Box Seals

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COML KIT
\$ 9,883.44

NFES 004320

LOC: GBK
WT: 30 LB
CU: 1.6
DIM: 20.6"x16.9"x8.1"

This kit is to assist the COML in cloning of handheld radios. It consists of one radio, clamshell and cloning cable for every type of handheld available in the cache. This kit does not come with antennas, holsters or any other accessories. **These radios are not to be swapped out for broken kit radios.** The contents of this kit is the responsibility of the COML.

NFES	QTY	DESCRIPTION
001034	1 EA	HOLDER, RADIO, BATTERY, FOR 9 EACH AA ALKALINE
004077	1 EA	HOLDER, BATTERY, MIDLAND
004079	1 EA	CABLE - CLONING, MIDLAND, P/N ACC-2305G
004114	1 EA	CABLE - COLING, DATRON
004115	1 EA	RADIO - DATRON, VHF, DIGITAL
004161	1 EA	RADIO - RACAL, VHF, DIGITAL, PRC-6894
004165	1 EA	HOLDER - BATTERY, AA, FOR RACAL
004168	1 EA	CABLE - CLONING, RACAL, P/N 85303
004169	1 EA	RADIO - MIDLAND, UHF
004535	1 EA	RADIO-MOTOROLA XTS2500, MD1III, UHF
004537	1 EA	HOLDER - BATTERY, AA, FOR MOTOROLA XTS2500
004541	1 EA	HOLDER - BATTERY, AA, MOTOROLA XTS300 (DATRON)
004544	1 EA	CABLE-CLONING, MOTOROLA RADIO, P/N RKN4108
004602	1 EA	CABLE - CLONING, KING DPH, P/N E/GCC
004603	1 EA	RADIO - KING, VHF, DIGITAL, DPHX
004830	98 EA	BATTERY, AA (NIRSC ONLY)
005085	1 EA	CASE, PELICAN, 1550
	1 EA	ROGRAMMING/CLONING INSTRUCTIONS EPV
	1 EA	PROGRAMMING/CLONING INSTRUCTIONS FOR KING DPHX
	1 EA	PROGRAMMING/CLONING INSTRUCTIONS FOR MOTOROLA XTS2500
	1 EA	PROGRAMMING/CLONING INSTRUCTIONS FOR DATRON
	1 EA	PROGRAMMING/CLONING INSTRUCTIONS FOR RACAL
	1 EA	PROGRAMMING/CLONING INSTRUCTIONS FOR MIDLAND
	3 EA	KIT INVENTORY WORKSHEET
	2 EA	LEAD BOX SEALS

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COMMAND REPEATER KIT \$18,565.96

NFES 004312

Loc: GBK
WT: 95 lb
CU: 3.65 ft
DIM: 20"x21"x15"

The Command Repeater Kit must be used in conjunction with a Command / Tactical Radio Kit, NFES #004381. This kit is a battery operated portable VHF repeater/UHF link designed for mountainous terrain and/or extended area coverage applicable to incident operational requirements. NIRSC Command Repeater/Links will link to other VHF/UHF Repeaters using the UHF Link Modules included in the NFES 004312 kit.

ALL frequencies must be cleared for use BEFORE shipment is made. Please provide the latitude and longitude when ordering and call the NIICD-CDO at (208) 387-5644 or our Toll Free number (877) 775-3451 for clearance.

All Command Repeater/Links are single channel. If an additional repeater frequency is necessary, a separate Command Repeater/Links must be ordered. Orders will be filled based on priority need. All frequencies must be coordinated to reduce interference problems. All repeater/links are capable of being tone-controlled (RX & TX). A tone-controlled repeater/link will operate as a normal repeater/link (carrier squelch) when not in the tone mode. Call the NIICD CDO for more information on tone-control applications.

The unit can be operated from the supplied alkaline batteries at 15 VDC or from an external 12 VDC power source (i.e. heavy duty car battery, DC power supply, or solar panels). If a 12 VDC power supply is used, it should have a minimum 5 Amp continuous duty capability.

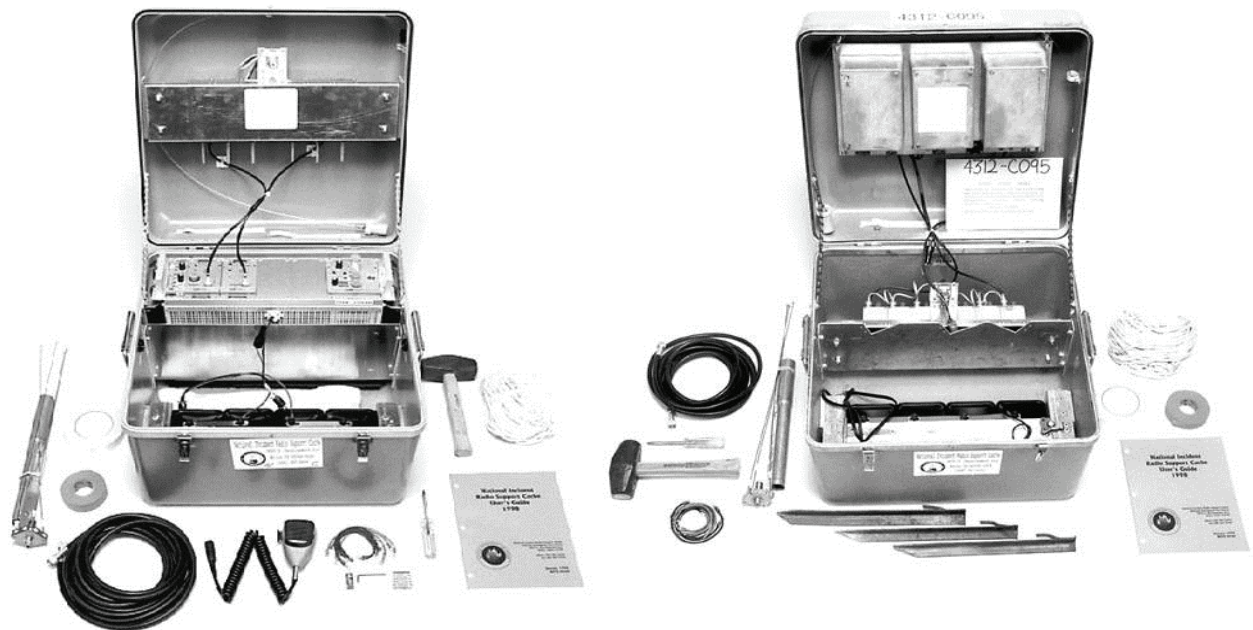
NFES	QTY	DESCRIPTION
004305	6 EA	Antenna—Antenna Mast #LANCE H-518
004305	6 EA	Antenna—Antenna Mast #LANCE H-518
004464	1 EA	Antenna, Gain Whip, VHF
005208	1 EA	Antenna, UHF YAGI
004304	1 EA	Antenna, UHF Whip
004489	2 EA	Base, Antenna w/Ground Planes
001023	4 EA	Battery, Radio Repeater, Alkaline 7.5 VOLT
	8 EA	Battery Jumpers, 4 Red, and 4 Black
004309	1 EA	Box, Fiberglass
004326	2 EA	Cable, Coaxial, RG 8/U
004676	2 EA	Cable, VHF Duplexer To Radio, 27"
004679	1 EA	Cable, B Side RX to Antenna Relay 12"
004678	1 EA	Cable, B Side TX to Antenna Relay 14"
004648	1 EA	Card, Control w/ Interface #4L-10
004180	2 EA	Connector, 90 Degree UHF
004339	2 EA	Connector, UHF Barrel, Coaxial
004342	1 EA	Duplexer, TXRX, #30-37-98102TXLO
	1 RO	Filament Tape
	1 RO	Flagging Tape

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COMMAND REPEATER KIT (continued)

	1 BX	Fuses, 3 AG, 5 AMP
	1 EA	Garbage Bag
004308	2 EA	Guy Assembly, Antenna w/ Collar
004303	1 EA	Hammer, 5 lb.
	3 EA	Battery & Antenna Set-Up Sheets
	2 EA	Switch Settings Diagram (Laminated)
	3 EA	Kit Inventory Worksheets
	2 EA	Lead Box Seal
004659	1 EA	Microphone, Repeater, Daniels #A-MIC-01
004652	1 EA	Monitor—System #SM-3-HO-014-00
000968	1 EA	NIRSC User's Guide
	1 EA	Power Cord w/Female Cinch Connector
004685	1 EA	Receiver, VHF Digital #VR-4R150-00-000
004683	1 EA	Receiver, UHF Digital #UR-4R420-00-000
004690	1 EA	Screwdriver, Daniels
004171	1 EA	Screwdriver 4"
	3 EA	Straps, Battery
004651	1 EA	Sub-rack, w/ Motherboard #SR-39-1
000825	6 EA	Tent Stakes, Metal
004684	1 EA	Transmitter, VHF Digital #VT-4R160-00-800
004682	1 EA	Transmitter, UHF Digital #UT-4R420-00-200
004333	1 EA	Wire Assembly, Fused 12 volt Battery Power
	1 EA	Wrench, Allen



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COMMAND/TACTICAL RADIO KIT

NFES 004381

Loc: GBK

WT: 85 lb

CU: 3.65 ft

DIM: 20"x21"x15"

KIT CONTAINS TRACKABLE PROPERTY

This VHF-FM Radio Kit is designed for use in command and tactical operations of an incident. Each kit contains sixteen (16) hand held radios. All radios are configured with tactical, command and National Air frequencies. The radios in each kit are the same manufacturer and model.

Frequency charts are included in the kit, as well as T-cards for radio checkout. Boxes are labeled on the outside to indicate the type of radios contained within, according to the following convention:

4381DA - Datron Guardian 25

4381KD - King DPH

4381RL - Racal

ALL frequencies must be cleared for use BEFORE shipment. Call the NIICD CDO for clearance.

Command/Tac radios are programmed by the NIRSC to be compatible with each system in which they are included. The Racal and Datron have 256 channels. The King DPH has 400 channels. The Racal, Datron, and King DPH can also be operated in digital mode.

The King DPH Radios have 25 groups of 16 channels. The Racal and Datron Guardian 25 have 16 groups of 16 channels.

The NIRSC recommends that users limit the number of scanned channels to three (3) and to use the HIGH POWER TX mode sparingly. These options increase the load on the batteries which will rapidly reduce battery life.

1. All clamshells included in the radio kits must be returned.

2. The NIRSC King Radio Kits use 9-cell clamshells only! Do NOT use more than 9 cells!

NFES	QTY	DESCRIPTION
004309	1 EA	Box, Fiberglass
	3 EA	Frequency Charts
	3 EA	Kit Inventory Worksheets
	2 EA	Lead Box Seal
004306	1 EA	Liner, Foam
	3 EA	Radio Tracking Sheets
	32 EA	T-Cards, Radio Accountability

When placing the order, do not specify the manufacturer using the subkit numbers. Check with the CDO or COML

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COMMAND/TACTICAL RADIO KIT (continued)

SUBKITS:

NFES 4381RL		RACAL /THALES RADIOS	\$43,350.87
004355	4 EA	Antenna, Mobile MAG, VHF/UHF	
004160	19 EA	Antenna, Racal, VHF	
004830	312 EA	Battery, AA	
004168	1 EA	Cable, Cloning, Racal Radio	
004165	16 EA	Holder, AA Battery for Racal Model	
004164	16 EA	Holster, Leather, Racal Model	
004161	16 EA	Radio, Racal VHF Digital, Model #PRC-6894 (<i>TRACKABLE</i>)	
004166	16 EA	Speaker/Mike, Racal	

NFES 4381KD		KING DIGITAL DPHX RADIOS	\$16,025.61
005350	4 EA	Adapter - Cable, King to Mobile MAG	
004601	19 EA	Antenna, King, VHF	
004355	4 EA	Antenna - Mobile MAG, VHF/UHF	
004830	288 EA	Battery, AA	
005331	16 EA	Case, Leather, King w/ Cover	
004602	1 EA	Cable, Cloning, King DPH #E/GCC	
001034	16 EA	Holder, AA Battery	
004603	16 EA	Radio, King VHF Digital Model #DPHx (<i>TRACKABLE</i>)	
005330	4 EA	Speaker/Mike, King	

NFES 4381DA		DATRON RADIOS	\$38,163.80
004111	19 EA	Antenna, VHF Datron	
004355	4 EA	Antenna, Mobile MAG, VHF/UHF	
004830	312 EA	Battery, AA	
004114	1 EA	Cable, Cloning, Datron	
004541	16 EA	Holder, AA Battery, Motorola XTS3000	
004112	16 EA	Holster, Leather, Datron	
004115	16 EA	Radio, Datron VHF Digital (<i>TRACKABLE</i>)	
004113	4 EA	Speaker/Mike, Datron	

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COMMAND/TACTICAL KIT RADIO (continued)



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CROSSBAND LINK KIT (VHF/UHF) \$18,195.93

NFES 004281

Loc: GBK

TOTAL 3 PIECES: WT: 95 lb

CU: 5.5 ft (1.68 m)

Piece 1/BOX: Piece 2&3/Masts

WT: 79 lb WT: 16 lb

CU: 3.5 ft CU: 2.0 ft

DIM: 20"x21"x15" DIM: 60"x3"x3" per mast

The Crossband Link Kit is designed to provide support for special operations on an all hazard incident that requires UHF frequency to VHF frequency conversion. This unit is in a Daniels rack with both a UHF transmitter and receiver and a VHF transmitter and receiver and can be programmed with special frequencies. Please contact the NIICD CDO for ordering, design, and frequency coordination. ***This unit is not a repeater.***

NFES	QTY	DESCRIPTION
004339	2 EA	Connector, UHF Barrel, Coaxial
004304	1 EA	Antenna, UHF, Whip
004464	1 EA	Antenna, Gain Whip, VHF
005208	1 EA	Antenna, UHF YAGI
	1 EA	Garbage Bag
004489	2 EA	Base, Antenna w/Ground Planes
001023	4 EA	Battery, Radio Repeater, 7.5 volt
	2 EA	Battery Jumpers, 6 Ft.
	8 EA	Battery Jumpers 4 Red and 4 Black
004309	1 EA	Box, Fiberglass w/ ACC, 21 x 20 x 15
004679	1 EA	Cable, B Side RX to Antenna Relay 12
004678	1 EA	Cable, B Side TX to Antenna Relay 14"
004326	2 EA	Cable, Coaxial, RG8/U
004668	1 EA	Cable, Receiver, A Side
004669	1 EA	Cable, Transmitter, A Side
004180	2 EA	Connector, 90 Degree UHF
	1 BX	Fuses, 3 AG, 5 amp
004308	2 EA	Guy Assembly, Antenna w/Collar
004303	1 EA	Hammer, 5 lb.
	3 EA	Installation Instructions
	3 EA	Kit Inventory Worksheets
	2 EA	Lead Box Seal
004305	6 EA	Antenna—Antenna Mast #LANCE H-518
004659	1 EA	Microphone, Repeater, Daniels #A-MIC-01
004675	1 EA	Card, Control, Audio #AC-3E

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CROSSBAND LINK KIT (continued)

004665	1 EA	Monitor System
	1 EA	Power Cord w/Female Cinch Connector
004683	1 EA	Receiver, UHF Digital #UR-4R420-00-000
004685	1 EA	Receiver, VHF Digital #VR-4R150-00-000
004690	1 EA	Screwdriver (for Daniels Modules)
004171	1 EA	Screwdriver 4"
	3 EA	Battery Straps (1 long, 2 short)
004651	1 EA	Subrack w/ Motherboard #SR-39-1
	1 RO	Filament Tape
	1 RO	Flagging Tape
000825	6 EA	Tent Stakes, Metal
004682	1 EA	Transmitter, UHF Digital #UT-4R420-00-200
004684	1 EA	Transmitter, VHF Digital #VT-4R160-00-800
004333	1 EA	Wire Assembly, Fused 12 volt Battery Power
	1 EA	Wrench, Allen

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FLATLAND KIT
\$74.72

NFES 004245

Loc: GBK
WT: 2.8 lb
CU: 0.17 ft
DIM: 12"x12"x2"

Must be cleared by the NIICD CDO before ordering.

NFES	QTY	DESCRIPTION
004127	1 EA	Cable, RG-58A
004174	1 EA	Antenna, VHF, Toss Up
004339	1 EA	Connector, UHF Barrel, Coaxial
005350	1 EA	Adapter, Cable, King to Mobile MAG
	1 EA	Parachute Cord, 50 Ft. w/Lead Weights
	1 EA	Wrench, Allen

INCIDENT COMMUNICATIONS SECTION

GROUND AIRCRAFT RADIO/LINK KIT \$15,291.42

NFES 004370

Loc: GBK

TOTAL 3 PIECES: WT: 110 lb
CU: 6.22 ft

Piece 1/BOX:	Piece 2/BOX:	Piece 3/MASTS:
WT: 69 lb	WT: 26 lb	WT: 15 lb
CU: 3.65 ft	CU: 1.57 ft	CU: 1.0 ft
DIM: 20"x21"x15"	DIM: 20"x17"x8"	DIM: 60"x3"x3"

KIT CONTAINS TRACKABLE PROPERTY

This Daniels kit is a portable, battery operated, all in one, VHF-AM aircraft base station and UHF-FM link. All aircraft kits operate as a base station or as a cross-band link. There are two sets of antennas (VHF-AM and UHF-FM) for use in the link configuration. All kits have four (4) handheld ICOM VHF-AM radios and require a 12 volt DC source. The unit can be operated from the supplied alkaline batteries at 15 volts or from an external 12 volt DC power source such as a heavy duty car battery, DC power supply, or solar panels. If a 12 volt DC power supply is used, it must have a minimum 5 amp continuous duty capability.

Additional ICOM radios may be ordered to supplement this kit. Call the CDO for ordering assistance. ALL frequencies must be cleared by the NIICD CDO or COMC.

NFES	QTY	DESCRIPTION
BOX 1 CONTENTS:		
005082	5 EA	Antenna, ICOM
004304	1 EA	Antenna, UHF Whip, w/ Po-UHF load
004343	1 EA	Antenna, VHF/AM, AV-1
004489	1 EA	Base, Antenna w/ Ground Planes
001023	4 EA	Battery, Radio Repeater, Alkaline 7.5 volt
	8 EA	Battery Jumpers, 4 Red and 4 Black
	3 EA	Battery Straps, 15 volt
004309	1 EA	Box, Fiberglass
004679	1 EA	Cable, Coaxial, B Side RX to Antenna Relay 12"
004678	1 EA	Cable, Coaxial, B Side TX to Antenna Relay 14"
004326	2 EA	Cable, Coaxial, RG8/U
004668	1 EA	Cable, Receiver, A Side
004669	1 EA	Cable, Transmitter, A Side
004675	1 EA	Card, Control, Audio #AC-3E
004180	2 EA	Connector, 90 Degree UHF
004339	2 EA	Connector, UHF Barrel, Coaxial
	4 EA	Frequency Sheet, ICOMS
	3 EA	Frequency Sheet, UHF
	1 BX	Fuses, 5 amp, 3 AG
005083	4 EA	Holder, Battery, ICOM
005084	4 EA	Holster, Leather, Radio ICOM
	3 EA	Installation Instructions
	3 EA	Instructions, Battery and Antenna Set Up

INCIDENT COMMUNICATIONS SECTION

GROUND AIRCRAFT RADIO/LINK KIT (continued)

	3 EA	Kit Inventory Worksheets
	2 EA	Lead Box Seal
004307	1 EA	Liner, Foam, A/C 5 Pocket
004305	6 EA	Masts, Antenna, 5 ft Section
004659	1 EA	Microphone, Repeater, Daniels #A-MIC-01
004665	1 EA	Monitor System
	1 EA	Operating Booklet, ICOM
	1 EA	Power Cord w/ Female Cinch Connector
	1 EA	Power Cord, Female Cinch Connector to Alligator Clip
004402	4 EA	Radios, ICOM, #IC-A3, A/C
004667	1 EA	Receiver, Synthesized, VHF-AM
004683	1 EA	Receiver, UHF Digital #UR-4R420-00-000
004409	1 EA	Speaker, External, 800HM, 10 watt
004651	1 EA	Subrack, w/ Motherboard #SR-39-1
	2 EA	Switch Setting Diagrams, Base/Link, Laminated
	8 EA	T-Card, Radio Accountability
004666	1 EA	Transmitter, Synthesized, VHF-AM
004682	1 EA	Transmitter, UHF Digital #UT-4R420-00-200
	1 EA	Wrench, Allen

BOX 2 CONTENTS:

004830	80 EA	Battery, AA
	1 RO	Filament Tape
	1 RO	Flagging Tape
	1 EA	Garbage Bag
004308	2 EA	Guy Assembly, Antenna w/ Collar
004303	1 EA	Hammer, 4 lb
005085	1 EA	Pelican Box, Black
004690	1 EA	Screwdriver (for Daniels Models)
004171	1 EA	Screwdriver 6" Straight Slot
000825	6 EA	Tent Stakes, Metal
000332	1 EA	Wrench, Adjustable 6"

INCIDENT COMMUNICATIONS SECTION

GROUND VHF-AM BASE STATION KIT \$6,080.09

NFES 004300

Loc: GBK

TOTAL 2 PIECES: WT: 95 lb
CU: 4.65 ft

Piece 1/BOX: WT: 80 lb
CU: 3.65 ft
DIM: 20"x21"x15"

Piece 2/MASTS: WT: 15 lb
CU: 1.0 ft
DIM: 60"x3"x3"

KIT CONTAINS TRACKABLE PROPERTY

The Ground VHF-AM Base Station Kit is a portable, 760-channel VHF-AM base station. This kit cannot be linked. Kits are used primarily as a base station to contact aircraft on Forest Health Protection projects, and on incidents. Base stations will transmit 7 watts, are capable of 10 pre-set channels, will scan, and operate using 115 VAC or 12 VDC through an automobile accessory plug-in. Four (4) handheld ICOM VHF-AM radios are included, as well as T-cards for radio check-out. **ALL frequencies must be cleared by the NIICD CDO or COMC.** If this kit is to be used as an FAA portable control tower, the resource order **MUST** be placed by the incident COML for the controller.

If this kit is to be used as an FAA portable control tower, the resource order **MUST** be placed by the incident COML for the controller.

NFES	QTY	DESCRIPTION
	1 EA	Adapter, Car Battery, Female w/Connector
	1 EA	Adapter, Car Battery, Male #TBS-150
	1 EA	Adapter, Neutral Male to UHF Female, #RFN1035-1
004343	1 EA	Antenna, VHF-AM, AV-1
005082	5 EA	Antenna, ICOM, Handheld, Helical
004476	1 EA	Base Station, VHF-AM, #TBS-150
001023	4 EA	Battery, Radio Repeater, 7.5 volt
004830	80 EA	Battery, AA
	8 EA	Battery Jumpers 4 Red and 4 Black
	3 EA	Battery Straps, 15 Volt
004309	1 EA	Box, Fiberglass
004326	3 EA	Cable, Coaxial, RG8/U
004339	3 EA	Connector, UHF Barrel, Coaxial
	1 RO	Filament Tape
	1 RO	Flagging Tape
	4 EA	Frequency Sheets for ICOMS
	5 EA	Fuses, 2 AG, 5 amp Mini
	5 EA	Fuses, 3 AG, 5 amp
	5 EA	Fuses, MDL, 2.5 amp
	1 EA	Garbage Bag
004308	1 EA	Guy Assembly, Antenna w/ Collar
004303	1 EA	Hammer, 4 lb.

INCIDENT COMMUNICATIONS SECTION

GROUND VHF-AM BASE STATION KIT (continued)

005083	4 EA	Holder, Battery ICOM
005084	4 EA	Holster, Leather, Radio ICOM
	3 EA	Installation Instructions
	1 EA	Instruction Manual, TBS-150
	3 EA	Instructions, Battery and Antenna Set Up
	3 EA	Kit Inventory Worksheets
	2 EA	Lead Box Seal
004307	1 EA	Liner, Foam, A/C 5 Pocket
004305	3 EA	Masts, Antenna, 5 ft Section
005066	1 EA	Microphone, Telex w/ Three Pin Male Connector
	4 EA	Operating Booklet ICOM
	1 EA	Power Cord, 120 volt, AC (TBS-150)
004402	4 EA	Radios, ICOM A/C #IC-A3
004171	1 EA	Screwdriver, 6" Straight Slot
	8 EA	T-Cards, Radio Accountability
000825	3 EA	Tent Stakes, Metal



INCIDENT COMMUNICATIONS SECTION

LOGISTICS RADIO KIT

NFES 004244

Loc: GBK
WT: 75 lb
CU: 3.65 ft
DIM: 20"x21"x15"

KIT CONTAINS TRACKABLE PROPERTY

Contains 16 UHF radios for use by incident support personnel, i.e. Plans, Logistics, and Finance. The radios can operate independently or in conjunction with UHF Repeater Kit NFES 004248.

The radios are programmed with NIRSC UHF Frequencies, including all simplex and repeater pair frequencies. Frequency charts are included in the kit, as well as T-cards for radio checkout. Boxes are labeled on the outside to indicate the type of radios contained within, according to the following convention:

4244MD - Midland

4244X2 - Motorola XTS2500

ALL frequencies must be cleared for use BEFORE shipment. Call the NIICD CDO for clearance.

NFES	QTY	DESCRIPTION
004309	1 EA	Box, Fiberglass
	3 EA	Frequency Charts
	3 EA	Kit Inventory Worksheets
004306	1 EA	Liner, Foam
	2 EA	Lead Box Seal
	3 EA	Radio Tracking Sheets
	32 EA	T-Cards, Radio Accountability

When placing the order, do not specify the manufacturer using the subkit numbers. Check with the CDO or COML.

SUBKITS:

NFES	4244MD	MIDLAND RADIOS	\$19,225.43
004075	16 EA	Case, Radio, Midland	
004076	19 EA	Antenna, UHF, Midland	
004077	16 EA	Antenna, Holder, AA Radio Battery	
004078	4 EA	Speaker/Microphone, Midland	
004079	1 EA	Cable, Cloning, Midland	
004169	16 EA	Radio, Midland, UHF (<i>TRACKABLE</i>)	
		Liner, Foam	
		Box, Fiberglass a/ACC, 21 X 20 X 15	
		Battery, AA	
		Kit Inventory Worksheet	
		Lead Seals	
		Radio Tracking Sheets	
		Frequency Sheets	
		T-Cards, Radio Accountability	

INCIDENT COMMUNICATIONS SECTION

LOGISTICS RADIO KIT (continued)

NFES 4244X2

004355 4 EA
004540 19 EA
004830 328 EA
004544 4 EA
004537 16 EA
004542 16 EA
004535 16 EA
004543 4 EA

MOTOROLA XTS-2500 RADIOS

Antenna, Mobile MAG, VHF/UHF
Antenna, UHF, for Motorola XTS-3000
Battery, AA
Cable, Cloning, Motorola Radiom XTS- 5000 #RKN4108
Holder, AA Battery, for Motorola XTS-2500 Radio Holster,
Leather, for Motorola XTS-3000 #NTN9184 Radio,
Motorola, XTS-2500 (*TRACKABLE*)
Speaker, Mike, for Motorola XTS-3000 #NMN6193



INCIDENT COMMUNICATIONS SECTION

LOGISTICS REPEATER KIT \$10,652.62

NFES 004248

Loc: GBK

TOTAL 2 PIECES: WT: 95 lb

CU: 4.5 ft

Piece 1/BOX:

WT: 80 lb

CU: 3.5 ft

DIM: 21"x21"x15"

Piece 2/MASTS:

WT: 15 lb

CU: 1.0 ft

DIM: 60"x3"x3"

The Logistics Repeater Kit must be used in conjunction with the Logistics Radio Kit, NFES #004244. This is a battery operated portable repeater designed for mountainous terrain and/or extended area coverage. This kit is used for fire logistics functions which include ICP to Dispatch Center, staging area to ICP, Helibase to ICP, Helispots to ICP, Ground Support Units as well as for outlying service functions to Communications Units. Non fire related incidents may be able to utilize this kit in command/tactical situations. **Resource orders must indicate what frequency will be required, e.g. L1, L2, etc. ALL frequencies must be cleared for use by the NIICD CDO and the COMC.**

NFES	QTY	DESCRIPTION
004304	1 EA	Antenna, UHF Whip w/ PO-UHF Load
004489	1 EA	Base, Antenna w/Ground Planes
001023	4 EA	Battery, Radio Repeater, Alkaline 7.5 volt
	8 EA	Battery Jumpers, 4 Red and 4 Black
	3 EA	Battery Straps
004309	1 EA	Box, Fiberglass
004326	1 EA	Cable, Coaxial, RG8/U
004677	2 EA	Cable, UHF Duplexer to Radio
004648	1 EA	Card, Audio Control, #C1-RC-4L-10
004180	1 EA	Connector, UHF, 90 Degree
004339	1 EA	Connector, UHF Barrel, Coaxial
004297	1 EA	Duplexer, UHF
	1 RO	Filament Tape
	1 RO	Flagging Tape
	1 BX	Fuses, 3 AG, 5 amp
	1 EA	Garbage Bag
004308	1 EA	Guy Assembly, Antenna w/ Collar
004303	1 EA	Hammer 4 lb.
	3 EA	Instructions, Battery and Antenna Set Up
	3 EA	Kit Inventory Worksheet
	2 EA	Lead Box Seal
004305	3 EA	Masts, Antenna, 5 ft Sections
004659	1 EA	Microphone, Daniels
004652	1 EA	Monitor, System #SM-3-HO-014-00
	1 EA	Power Cord, w/Female Cinch Connector
004683	1 EA	Receiver, UHF Digital #UR-4R420-00-000

INCIDENT COMMUNICATIONS SECTION

LOGISTICS REPEATER KIT (continued)

004690	1 EA	Screwdriver, Daniels
004171	1 EA	Screwdriver 6" Straight Slot
004651	1 EA	Subrack w/ Motherboard #SR-39-1
	1 EA	Switch Setting Diagram, Laminated
000825	3 EA	Tent Stakes, Metal
004682	1 EA	Transmitter, UHF Digital #UT-4R420-00-200
004333	1 EA	Wire Assembly, Fused 12 volt Battery Power
	1 EA	Wrench, Allen

INCIDENT COMMUNICATIONS SECTION

MAFFS PRINTER NETWORK KIT

NFES 004420

LOC: GBK

TOTAL 3 PIECES: WT: 117 LBS

CU: 9.08

PIECE 1/BOX

WT: 76 LB

CU: 6.52

DIM: 33.3"x28.4"x18.2"

PIECE 2/BOX

WT: 41 LBS

CU: 2.56

DIM: 24.6" x19.4" x13.8"

This kit will be issued to MAFFS tanker bases for setting up a printer network. When placing an order do not specify the router manufacture using subkit numbers.

NFES	QTY	DESCRIPTION
BOX 1 CONTENTS:		
004293	1 EA	SURGE PROTECTOR
004329	1 EA	BRIDGE, LINKSYS WES610N
004334	1 EA	MIFI, VERIZON MIFI4510L
004340	1 EA	PRINTER, HP, OFFICEJET PRO 8600
004808	1 EA	CASE, PELICAN, 1690
	1 EA	KIT INSTRUCTION BINDER WITH PRINTER DRIVER CD
	2 EA	INVENTORY SHEET
	2 EA	LEAD SEALS
	1 EA	CASE, PELICAN, YELLOW, 1060
	1 EA	POWER ADAPTER, AC/DC, VERIZON MIFI4510L
	1 EA	CABLE, MICRO USB

SUBKIT:

NFES 4420LS	LINKSYS	\$1,663.97
004328 1 EA	ROUTER, LINKSYS E4200	

NFES 4420NT	NETGEAR	\$1,663.97
004341 1 EA	ROUTER, NETGEAR N900	

BOX 2 CONTENTS:

004135	2 EA	ETHERNET CABLE, 6FT
004136	2 EA	ETHERNET CABLE, 25 FT
004137	2 EA	ETHERNET CABLE, 50 FT
004185	1 EA	EXTENSION CORD, 16 AWG/3, 25 FT
004233	1 EA	USB DRIVE, 16 GB
004254	2 EA	INK CARTRIDGE, HP, BLACK, 950XL
004255	2 EA	INK CARTRIDGE, HP, CYAN, 951XL
004256	2 EA	INK CARTRIDGE, HP, MAGENTA, 951XL
004257	2 EA	INK CARTRIDGE, HP, YELLOW, 951XL
004809	1 EA	CASE, PELICAN, 1620

INCIDENT COMMUNICATIONS SECTION

MAFFS PRINTER NETWORK KIT (Continued)

1 EA	PAPER REAM, LETTER
1 EA	POWER CORD, PRINTER, HP OFFICEJET PRO 8600
1 EA	POWER CORD, BRIDGE, LINKSYS WES610N
1 EA	TELEPHONE CORD, 8 FT
1 EA	TELEPHONE CORD, 6 FT
2 EA	INVENTORY SHEET
2 EA	LEAD SEAL

SUBKIT:

NFES 4420LS

1 EA	POWER CORD, LINKSYS E4200
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NFES 4420NT

1 EA	POWER CORD, NETGEAR N900
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INCIDENT COMMUNICATIONS SECTION

MAFFS TACTICAL RADIO KIT \$ 5,854.98

NFES 004250

LOC: GBK
WT: 29 LB
CU: 3.5
DIM: 20"x21"x15"

This kit will be issued in conjunction with the 004660 MAFFS Base Station. Only to be used for MAFFS operations.

NFES	QTY	DESCRIPTION
004601	10 EA	ANTENNA, VHF, KING
004603	6 EA	RADIO, KING, DPHX
004609	1 EA	BOX, FIBERGLASS, SMALL, GREY
004830	108 EA	BATTERIES, AA (NIRSC ITEM ONLY)
005330	2 EA	SPEAKER/MIC, KING
005331	6 EA	CASE, RADIO, KING
	12 EA	T-CARDS, RADIO TRACKING
	3 EA	KIT INVENTORY WORKSHEET
	2 EA	LEAD BOX SEALS
	3 EA	RADIO TRACKING SHEETS
	3 EA	FREQUENCY SHEETS

INCIDENT COMMUNICATIONS SECTION

MOTOROLA SATELLITE PHONE KIT \$2,138.18

NFES 004670

Loc: GBK
LOC: GBK
WT: 4.8 LB
CU: 0.32
DIM: 10"x11"x5"

KIT CONTAINS TRACKABLE PROPERTY

NFES	QTY	DESCRIPTION
004072	1 EA	RADIO, MOTOROLA - 9505A SAT PHONE
004172	1 EA	ADAPTER - CIGARETTE LIGHTER
004173	1 EA	CHARGER - A/C - D/C, ADAPTER
004175	1 EA	BATTERY - LI-ION IRIDIUM, 3.7 V
004611	1 EA	ANTENNA - EXTENDABLE,IRIDIUM
004612	1 EA	ANTENNA - MOBILE MAG, IRIDIUM PHONE
004613	1 EA	ADAPTER - PHONE TO MOBILE MAG,IRIDIUM PHONE
004614	1 EA	HOLSTER - IRIDIUM PHONE
005087	1 EA	CASE - PELICAN, 1200
	1 EA	EARPHONES
	1 EA	INSTALLATION INSTRUCTIONS

INCIDENT COMMUNICATIONS SECTION

PUBLIC ADDRESS KIT (AMPLIVOX) \$2,020.17

NFES 004410

Loc: GBK
WT: 60 lb
CU: 3.65 ft
DIM: 20"x21"x15"

This kit is primarily used at the ICP or in staging areas that house large numbers of personnel. It allows for the broadcasting of information or paging from a central point. The Public Address Kit consists of (1) model SW615A (**PRIMARY**) wireless powered speaker with internal 16 channel UHF Wireless Receiver, (1) model S1244-70 (**SECONDARY**) wireless powered speaker with external VHF Transmitter, and tools and accessories necessary for installation.

NFES	QTY	DESCRIPTION
000033	48 EA	BATTERY, D
001241	4 EA	BATTERY, 9 VOLT
004170	1 EA	TRANSMITTER, WIRELESS (S1600T)
004176	1 EA	CABLE, PA 40 FT (C200-0025)
004177	2 EA	AC ADAPTER (S1460)
004178	2 EA	BATTERY PACK/HOLDER, D CELL (A550-0005)
004179	1 EA	CABLE, WIRELESS TRANSMITTER
004181	1 EA	PA, WIRELESS AMP W/HORN AND WIRELESS RECEIVER
004182	1 EA	(SW615A) PA, WIRELESS SECONDARY (S1244-70)
004183	1 EA	MICROPHONE, WIRELESS (S1605)
004309	1 EA	BOX, FIBERGLASS
004830	4 EA	BATTERY, AA
	1 EA	GARBAGE BAG
	1 EA	FILAMENT TAPE
	1 EA	FLAGGING TAPE
	3 EA	KIT INVENTORY WORKSHEET
	2 EA	LEAD BOX SEALS
	1 EA	INSTALLATION INSTRUCTIONS

INCIDENT COMMUNICATIONS SECTION

REMOTE KIT

NFES 004330

Loc: GBK

TOTAL 2 PIECES: WT: 103 lb

CU: 4.5 ft

Piece 1/BOX:

WT: 95 lb

CU: 3.65 ft

DIM: 20"x21"x15"

Piece 2/MAST:

WT: 8 lb

CU: 1.0 ft

DIM: 60"x3"x3"

The Remote Kit can be used with VHF-FM (tactical) and UHF-FM (logistics) radios. Use of this kit, in conjunction with NIRSC radios allows a remote base station to be installed up to a half mile away from the ICP, camps, helibase, etc..

The radio, chassis and battery are enclosed in a steel box which is removable from the shipping container. This allows for placement of the box at the base of the antenna while running only a wire pair to the desk set location. VHF and UHF Radios are included in the chassis box, eliminating the need for multiple interface cables. This kit will contain either King or Motorola XTS 2500/5000 radios.

ALL frequencies must be cleared by NIICD CDO or COMC.

NFES	QTY	DESCRIPTION
004305	3 EA	Antenna Mast #LANCE H-518
004464	1 EA	Antenna - Gain Whip,
004304	1 EA	Antenna, UHF, Whip
005208	1 EA	Antenna, UHF Yagi
004489	1 EA	Base Antenna w/Ground Planes
001023	2 EA	Battery, Radio Repeater, 7.5 volt
	6 EA	Battery Jumpers, 3 Red and 3 Black
005338	1 EA	Box, Aluminum
004309	1 EA	Box, Fiberglass
004471	1 EA	Box, Remote Chassis
004326	1 EA	Cable, Coaxial RG8/U
004180	1 EA	Connector, 90 Degree, UHF
004339	1 EA	Connector, UHF Barrel, Coaxial
	1 EA	External Power Cord w/2 Prong Plug
	1 RO	Filament Tape
	1 RO	Flagging Tape
	1 BX	Fuses, 5 amp
	1 EA	Fuse, 5 amp For Chassis Only
	1 EA	Garbage Bag
004308	1 EA	Guy Assembly, Antenna w/ Collar
004303	1 EA	Hammer 5 lb
	3 EA	Installation Instructions
	3 EA	Kit Inventory Worksheets
	42 EA	Lead Box Seals

INCIDENT COMMUNICATIONS SECTION

REMOTE KIT (continued)

005342	1 EA	Panel, Termination DC Line
000325	1 EA	Pliers, Lineman 6"
004171	1 EA	Screwdriver 4"
004409	1 EA	Speaker, External, 8 OHM, 10 watt
000825	3 EA	Tent Stakes, Metal
004274	1 EA	Transformer, A/C 120V to 12V D/C
004332	1 RO	Wire, Field Telephone, 1/2 mile
004302	1 EA	Wire Assembly, Fused 1 amp, 3 Prong
	6 EA	Wire Nuts
	1 EA	Wrench, Allen

SUBKITS:

NFES 4330MD

004169	1 EA	Radio, Midland, UHF (<i>TRACKABLE</i>)
004234	1 EA	Battery Eliminator, Midland
004235	1 EA	Radio, Midland, VHF, (<i>TRACKABLE</i>)
004473	1 EA	Desk Set, Remote
004236	1 EA	Cable Connector Assembly, Midland

\$3,688.09

NFES 4330X2

005344	1 EA	Battery Eliminator, Motorola XTS5000
005346	1 EA	Battery Eliminator, Motorola XTS2500
005341	1 EA	Cable Connector Assembly, Motorola
004480	1 EA	Handset, DC w/ DTMF Keypad
004466	1 EA	Radio, Motorola XTS5000
004535	1 EA	Radio, Motorola XTS2500, UHF

\$6,553.81



INCIDENT COMMUNICATIONS SECTION

STARTER SYSTEM ICS COMMAND/LOGISTICS RADIO KITS

NFES 004390

Loc: GBK

TOTAL 17 PIECES: WT: 885 lb

CU: 38.67 ft

10 BOXES:

WT: 829 lb

CU: 36.50 ft

DIM: 9 BX @ 20"x21"x15"

1 BX @ 20"x17"x8"

7 SETS OF MASTS:

WT: 56 lb

CU: 2.17 ft

DIM: 7 ST @ 60"x3"x3"

KIT CONTAINS TRACKABLE PROPERTY

The Starter System is designed to be the initial system to support basic incident communication requirements. The system supplies equipment which will facilitate immediate communications for command, tactical, logistical and ground-to-air needs.

The Starter System consists of:

1 Command Repeater, NFES 004312 (specify frequency)

3 Command/Tactical Radio Kits, NFES 004381 (48 radios total)

1 Ground Aircraft Radio/Link Kit with 4 ICOM radios, NFES 004370 (2 Boxes)

2 Remote Kits, NFES 004330

1 Logistics Repeater, NFES 004248 (specify frequency)

1 Logistics Radio Kit, NFES 004244 (16 radios)

Logistics capability is sent with all Starter Systems, e.g., Logistics Repeater, Logistics Radio Kit. The Command Repeater Kit is marked appropriately on the outside with the frequencies C1, C2, C3, C4, C5, and C6, and includes the NIRSC User's Guide (NFES 000968). **ALL frequencies MUST be assigned and cleared by the NIICD CDO prior to shipment.**

For multi-branch or multi-incident complexes, where several ICS Starter Systems are being ordered, the NIICD COD or, if assigned, the Communications Coordinator (COMC) must be contacted for ordering, system planning and frequency coordination assistance. For single incident situations the NIICD CDO must be contacted.

The cost for this system is approximately \$150,000.00 but will vary according to the kits and subkits that are actually sent.

NFES	QTY	DESCRIPTION
004381	3 EA	COMMAND/TACTICAL RADIO KIT
004312	1 EA	COMMAND REPEATER
004370	1 EA	GROUND AIRCRAFT RADIO/LINK KIT (2 Boxes)
004244	1 EA	LOGISTICS RADIO KIT
004248	1 EA	LOGISTICS REPEATER
004305	24 EA	MASTS, ANTENNA 5 FT SECTIONS
004330	2 EA	REMOTE KIT

INCIDENT COMMUNICATIONS SECTION

STARTER SYSTEM (continued)

