

INCIDENT COMMUNICATIONS SECTION

NFES 4499	AIR ATTACK KIT
NFES 4312	COMMAND REPEATER KIT
NFES 4381	COMMAND/TACTICAL KIT
NFES 4281	CROSSBAND LINK KIT
NFES 4370	GROUND AIRCRAFT RADIO/LINK KIT
NFES 4300	GROUND VHF-AM BASE STATION
NFES 4630	IRIDIUM PHONE KIT
NFES 4244	LOGISTICS RADIO KIT
NFES 4248	LOGISTICS REPEATER KIT
	MAFFS BASE STATION
NFES 4800	PORTABLE IR DOWNLINK KIT
NFES 4410	PUBLIC ADDRESS KIT
NFES 4330	REMOTE KIT
NFES 4390	STARTER SYSTEM ICS COMMAND/LOGISTICS RADIO KITS

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): **24 HOURS NIICD CDO: 208-387-5644**

NIICD FAX: 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 2092). 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 0968) can be found in the Command Repeater Kit (NFES 4312). 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.

PROJECTS

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.**

INCIDENT COMMUNICATIONS SECTION

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 #4381, #4312, #4300, and #4330. 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.

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. King 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 EPH and EPV handheld radios must use 9-cell clamshells (NFES #1034 Holder, radio battery, clamshell).

▶ 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.

INCIDENT COMMUNICATIONS SECTION

RADIO / KIT BATTERY MATRIX

BATTERIES

NFES #	0030	1023	1233
VOLTAGES	1.5 V	7.5V	6V (HOTSHOT)
UNIT OF ISSUE	PG (24)	EA	EA
STD PK	12PG/BX	4/BX	4/BX

RADIO BATTERY REQUIREMENTS

ICOM (Clam)	10 PG		
KING (Clam) (VHF/UHF)	9 PG		
THALES/RACAL 25 (Clam)	10 PG		
MOTOROLA XTS-3000/5000 (Clam)	12 PG		
E.F. JOHNSON 5100 (Clam)	12 PG		
DATRON (Clam)	12 PG		

KIT BATTERY REQUIREMENTS

GRND A/C: 4370, 4300	80 PG	4 EA	
P.A.: 4410			2 EA
REMOTES: 4330		2 EA	2 EA
REPEATERS & LINKS: 4248, 4312, 4281, 4630		4 EA	

RADIO KIT BATTERY HOLDERS:

- NFES #4541 for DATRON (each)
- NFES #4231 for E F JOHNSON 5100 (each)
- NFES #5083 for ICOMS (each - STD PK = 12/box)
- NFES #1034 for KINGS (each - STD PK = 12/box)
- NFES #4541 for MOTOROLA XTS-3000 (each)
- NFES #4165 for THALES/RACAL (each)
- NFES #4537 for MOTOROLA XTS-2500 (each)

ALL RADIO KIT BATTERY HOLDERS MUST BE RETURNED TO NIRSC

INCIDENT COMMUNICATIONS SECTION

AIR ATTACK KIT

NFES 4499

Loc: GBK

WT: 31 lb (14.09kg)

CU: 3 ft (.09m)

DIM: 24"X14"X17"

KIT CONTAINS TRACKABLE PROPERTY

This kit will be installed ONLY in an aircraft that meets the National Air Tactical / Reconnaissance Standards and also passes an avionics inspection by a USDA FS / USDI OAS avionics inspector.

This 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 Technisonic Industries radios. One radio will be the TFM-138B. The second will be another TFM-138B or a new Project 25 digital TDFM-136.

The kit has 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 headset jacks. Both passengers can operate all radios through the co-pilot/ATGS's transmitter selector. The "SC" position is simulcast transmission 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. The AUX-FM portable radio adapter connectors accept the same adapter connectors used in all helicopters. Contact the CDO for availability of King and Racal AUX-FM adapter cables.

This kit allows control over the airplanes internal radios (two) and an additional four radios installed in the kit, plus all intercom functions. The pilot can be isolated from the other 3 stations. It also incorporates a priority for the pilot's microphone.

NFES	QTY	DESCRIPTION	\$6,225.62
4500	2 EA	ADAPTER, HEADSET	
4486	2 EA	ADAPTER, PTT, PT-300	
4488	1 EA	CABLE, AUDIO/MIC	
4487	1 EA	CABLE, POWER	
	2 EA	CAP/CHAIN, BNC	
	3 EA	CAP, CONNECTOR (SMALL)	
	3 EA	CAP, CONNECTOR (LARGE)	
0529	1 EA	CARTON, FIBERBOARD (shipping container)	
4479	1 EA	CHASSIS, AIR ATTACK (MODEL TAK100)	
	2 EA	CONNECTORS, BARREL, BNC	
	1 EA	INFORMATION SHEET, AIR ATTACK	
	1 EA	OPERATOR'S GUIDE, TDFM-136	
	1 EA	OPERATOR'S GUIDE, TFM-138	
4490	2 EA	STRAP, TIE DOWN	
	1 EA	TFM-138 RADIO	
	1 EA	TDFM-136 RADIO	

INCIDENT COMMUNICATIONS SECTION

COMMAND REPEATER KIT

NFES 4312

Loc: GBK
WT: 95 lb (43.18kg)
CU: 4.5 ft (.13m)
DIM: 20"X21"X15"

The Command Repeater Kit must be used in conjunction with a Command/Tactical Radio Kit, NFES #4381. This kit is a battery operated portable repeater designed for mountainous terrain and/or extended area coverage applicable to all hazard incident operational requirements.

Repeaters should be ordered by NFES number and by the frequency: USDA-FS - C1, C2, C3; DOI: C4, C5, C6, C7. ALL frequencies must be cleared for use BEFORE shipment is made. Please provide the latitude and longitude when ordering and call the NIICD CDO for clearance.

All command repeaters are single channel. If an additional repeat frequency is necessary, a separate command repeater must be ordered. All frequencies must be coordinated to reduce interference problems. A tone-controlled repeater will operate as a normal repeater when not in the tone mode. Call the NIICD CDO for more information on tone-control applications.

NFES	QTY	DESCRIPTION	\$18,489.77
4339	1 EA	ADAPTER, BARREL CONNECTOR	
	1 EA	ALLEN WRENCH	
4464	1 EA	ANTENNA, VHF, WHIP w/PO-150 LOAD	
4650	1 EA	AUDIO CONTROL	
4489	1 EA	BASE, ANTENNA VHF w/GRND PLANES & WRENCH	
1023	4 EA	BATTERIES, 7.5 VOLT	
	8 EA	BATTERY JUMPERS, 4 RED, 4 BLACK	
4309	1 EA	BOX, FIBERGLASS (RADIO & REPEATER)	
4326	1 EA	CABLE, COAXIAL w/2 EA 4327 (PL-259)	
4676	2 EA	CABLE, VHF DUPLEXER TO RADIO	
4180	1 EA	CONNECTOR, 90 DEGREE UHF	
4342	1 EA	DUPLEXER, VHF	
	1 RO	FILAMENT TAPE	
	1 RO	FLAGGING TAPE	
	1 BX	FUSES, 3 AG, 5 AMP	
	1 EA	GARBAGE BAG	
4308	1 ST	GUY ASSEMBLY, ANTENNA	
4303	1 EA	HAMMER	
	3 EA	INSTALLATION INSTRUCTIONS	
	3 EA	KIT INVENTORY WORKSHEETS	
	2 EA	LEAD BOX SEAL	
4659	1 EA	MICROPHONE, DANIELS	
0968	1 EA	NIRSC USER'S GUIDE	
	1 EA	POWER CORD w/FEMALE CINCH CONNECTOR	
4685	1 EA	RECEIVER, VHF DIGITAL	
4690	1 EA	SCREWDRIVER, DANIELS	
4171	1 EA	SCREWDRIVER 4"	

(Continued on page 250)

INCIDENT COMMUNICATIONS SECTION

(Continued from page 249)

COMMAND REPEATER KIT

	3 EA	STRAPS, BATTERY
4651	1 EA	SUBRACK
4652	1 EA	SYSTEM MONITOR
0825	3 EA	TENT STAKES
4684	1 EA	TRANSMITTER, VHF DIGITAL
4333	1 EA	WIRE ASSEMBLY, FUSED DC



INCIDENT COMMUNICATIONS SECTION

COMMAND/TACTICAL KIT (SYNTHESIZED)

NFES 4381

Loc: GBK

WT: 85 lb (38.64kg)

CU: 3.5 ft (.10m)

DIM: 20"x21"x15"

KIT CONTAINS TRACKABLE PROPERTY

This kit is designed for use in the command and tactical operations of an all hazard incident. Each kit contains sixteen (16) hand held radios configured with all USDA-FS and DOI tactical, command and national air frequencies. The radios in each kit will all be the same.

The EPH series have 210 channels and are either narrow or wide-band. In the 210 channel radios, 3 groups have been programmed. Groups are accessed when the radio is turned on by pressing the number on the front pad for the group desired, when GRP appears on the display. Refer to the frequency charts in the kits for changes from the normal VHF frequency scheme. These radios are password protected. The CDO will supply the authorization code upon request to communications personnel.

The NIRSC recommends that the SCAN mode and HIGH POWER options not be used, as these options rapidly reduce battery life. The AA battery holder (NFES #1034 clamshell) provides convenient battery replacement. Clamshells require 9 each of the AA batteries (NFES #0030) for operation. NOTE: All VHF King Radio Kits use the 9-cell battery clamshells. Clamshells included in the kits must be returned to NIRSC. Boxes are labeled on the outside to denote the type of radios contained inside according to the following convention: KING: 4381-K + KIT # , RACAL: 4381-R+KIT#. **ALL frequencies must be cleared for use BEFORE shipment. Call the NIICD CDO for clearance.**

NFES	QTY	DESCRIPTION	\$327.63
4309	1 EA	BOX, FIBERGLASS (RADIO & REPEATER)	
	3 EA	FREQUENCY CHARTS	
	3 EA	KIT INVENTORY WORKSHEETS	
	2 EA	LEAD BOX SEAL	
4306	1 EA	LINER, FOAM, RADIO KIT	
	3 EA	RADIO TRACKING SHEETS	
	32 EA	T-CARDS, RADIO TRACKING	

When placing the order, do not specify the manufacturer using the subkit numbers. Please specify by the manufacturer name to avoid any possible errors i.e. King, Racal, EF Johnson etc. then check with the CDO or COML.

SUBKITS:

NFES 4353	KING RADIOS	\$13,345.75
5350	4 EA	ANTENNA ADAPTER, MOBILE MAG
5321	19 EA	ANTENNA, HELICAL, KING
4355	4 EA	ANTENNA, MOBILE MAG
0030	12 PG	BATTERY, AA
5331	16 EA	CASE, KING RADIO
5353	16 EA	GUARD, KEYBOARD/FACEPLATE

(Continued on page 252)

INCIDENT COMMUNICATIONS SECTION

(Continued from page 251)

COMMAND/TACTICAL KIT

KING RADIO SUBKIT (cont.)

1034	16 EA	HOLDER, BATTERY (CLAMSHELL), KING
4322	16 EA	RADIO, KING (TRACKABLE)
5330	4 EA	SPEAKER, MIC, KING

NFES 4162 RACAL RADIOS **\$42,846.85**

4160	19 EA	ANTENNA, RACAL, VHF
0030	14 PG	BATTERY, AA
4168	1 EA	CABLE, CLONING, RACAL
4165	16 EA	HOLDER, AA BATTERY, RACAL
4164	16 EA	HOLSTER, RADIO, RACAL
4355	4 EA	MOBILE MAG, w/BNC
4161	16 EA	RADIO, RACAL VHF (TRACKABLE)
4166	16 EA	SPEAKER/MIC, RADIO, RACAL

NFES 4351 E.F.JOHNSON RADIOS **\$38,697.18**

4355	4 EA	ANTENNA, MOBILE MAG, BNC
4163	19 EA	ANTENNA, VHF, E.F.JOHNSON
0030	16 PG	BATTERY, AA
4225	1 EA	CABLE, CLONING, E.F.JOHNSON
4230	16 EA	HOLSTER, LEATHER, E.F.JOHNSON
4231	16 EA	HOLDER, BATTERY, AA, E.F.JOHNSON
4226	16 EA	RADIO, E.F.JOHNSON (TRACKABLE)
4232	16 EA	SPEAKER/MIC, E.F.JOHNSON

NFES 4600 KING, DPHX RADIOS **\$22,622.55**

5350	4 EA	ADAPTER, MOBILE MAG
4601	19 EA	ANTENNA, KING, DIGITAL
4355	4 EA	ANTENNA, MOBILE MAG
0030	12 PG	BATTERY, AA
5331	16 EA	CASE, KING RADIO
14602	1 EA	CLONING CALBE, KING DPH
5353	16 EA	GUARD, KEYBOARD FACEPLATE
1034	16 EA	HOLDER, BATTERY, KING
4603	16 EA	RADIO, KING, DIGITAL (TRACKABLE)
5330	4 EA	SPEAKER/MIC, KING

(Continued on page 253)

INCIDENT COMMUNICATIONS SECTION

(Continued from page 252)

COMMAND/TACTICAL KIT

NFES 4110	DATRON RADIOS	\$37,655.23
4111	19 EA	ANTENNA, DATRON, VHF
4355	4 EA	ANTENNA, MOBILE MAG, VHF/UHF
0030	16 PG	BATTERY, AA
4114	1 EA	CABLE, DATRON, CLONING
4541	16 EA	HOLDER, BATTERY for XTS3000
4112	16 EA	HOLSTER, DATRON, LEATHER
4115	16 EA	RADIO, DATRON, VHF DIGITAL
4113	4 EA	SPEAKER/MIC, DATRON



INCIDENT COMMUNICATIONS SECTION

CROSSBAND LINK KIT

NFES 4281

Loc: GBK

TOTAL 3 PIECES: WT 95 lb (43.18kg)

CU: 3.5 ft (.10m)

Piece 1/BOX: WT: 79 lb (40.14 kg) CU: 3.5 ft (1.07m) DIM: 20"x21"x15"	Pieces 2 & 3/MASTS (2 EA): WT: 16 lb (7.26 kg) CU: 2.0 ft (.61m) DIM: 60"x3"x3" per mast
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The Crossband Link Kit is designed to provide support for special operations on an all hazard incident that requires UHF 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 also be programmed with special frequencies. Please contact the NIICD CDO for ordering, designing, and frequency coordination. **This unit is not a repeater.**

NFES	QTY	DESCRIPTION	\$17,983.93
4339	2 EA	ADAPTER, BARREL CONNECTOR	
4304	1 EA	ANTENNA, UHF WHIP	
4464	1 EA	ANTENNA, VHF WHIP, w/PO-150 LOAD	
5208	1 EA	ANTENNA, YAGI	
	1 EA	BAG, GARBAGE	
4489	2 EA	BASE ANTENNA, UHF, w/GRND PLANES	
1023	4 EA	BATTERIES, 7.5 VOLT	
	2 EA	BATTERY JUMPERS, 6 FT	
	8 EA	BATTERY JUMPERS, 4 RED, 4 BLACK	
4309	1 EA	BOX, FIBERGLASS	
4679	1 EA	CABLE, B-SIDE, RX	
4678	1 EA	CABLE, B-SIDE, TX	
4326	2 EA	CABLE, COAXIAL	
4668	1 EA	CABLE, RECEIVER, A-SIDE	
4669	1 EA	CABLE, TRANSMITTER, A-SIDE	
4180	2 EA	CONNECTOR, 90 DEGREE UHF	
	1 BX	FUSES, 3 AG, 5 AMP	
4308	2 EA	GUY ASSEMBLY, ANTENNA	
4303	1 EA	HAMMER, 4 LB	
	3 EA	KIT INSTALLATION INSTRUCTIONS	
	3 EA	KIT INVENTORY WORKSHEETS	
	2 EA	LEAD BOX SEAL	
4305	6 EA	MAST, ANTENNA	
4659	1 EA	MICROPHONE, DANIELS	
4675	1 EA	MODULE, CONTROL	
4665	1 EA	MONITOR	
	1 EA	POWER CORD w/FEMALE CINCH CONNECTER	

(Continued on page 255)

INCIDENT COMMUNICATIONS SECTION

(Continued from page 254)

CROSSBAND LINK KIT

4683	1 EA	RECEIVER, DIGITAL, UHF
4685	1 EA	RECEIVER, DIGITAL VHF
4690	1 EA	SCREWDRIVER, DANIELS
4171	1 EA	SCREWDRIVER 4"
	3 EA	STRAPS, BATTERY, 1 LONG, 2 SHORT
4651	1 EA	SUB-RACK, DANIELS 19"
	1 RO	TAPE, FILAMENT
	1 RO	TAPE, FLAGGING
0825	6 EA	TENT STAKES
4682	1 EA	TRANSMITTER, DIGITAL UHF
4684	1 EA	TRANSMITTER, DIGITAL VHF
4333	1 EA	WIRE ASSEMBLY
	1 EA	WRENCH, ALLEN

INCIDENT COMMUNICATIONS SECTION

GROUND AIRCRAFT RADIO/LINK KIT

NFES 4370

Loc: GBK

WT: 115 lb (52.27kg)

CU: 7.5 ft (.21m)

DIM: 20"X21"X15"

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	\$14,935.97
4339	2 EA	ADAPTER, COAXIAL, BARREL	
	1 EA	ALLEN WRENCH	
	3 EA	ANTENNA/BATTERY SET UP INSTRUCTIONS	
5082	5 EA	ANTENNA, ICOM	
4304	1 EA	ANTENNA, UHF WHIP	
4343	1 EA	ANTENNA, VHF AM, AV-1 W-BAND	
4489	1 EA	BASE, ANTENNA w/GRND PLANES UHF	
1023	4 EA	BATTERY, 7.5 VOLT	
0030	4 PG	BATTERY, AA	
	8 EA	BATTERY JUMPERS, 4 BLACK & 4 RED	
	3 EA	BATTERY STRAPS, 15 VOLT	
4309	1 EA	BOX, FIBERGLASS, (RADIO & REPEATER)	
4679	1 EA	CABLE, B-SIDE, RX	
4678	1 EA	CABLE, B-SIDE, TX	
4326	2 EA	CABLE, COAXIAL, w/2 EA 4327 (PL-259)	
4675	1 EA	CARD, CONTROL, AUDIO	
5084	4 EA	CASE, RADIO, ICOM	
4180	2 EA	CONNECTOR, 90 DEGREE UHF	
	1 RO	FILAMENT TAPE	
	1 RO	FLAGGING TAPE	
	4 EA	FREQUENCY SHEET FOR ICOMS	
	1 BX	FUSES, 5 AMP, 3 AG	
	1 EA	GARBAGE BAG	
4308	2 EA	GUY ASSEMBLY, ANTENNA	
4303	1 EA	HAMMER	
5083	4 EA	HOLDER, BATTERY, (CLAMSHELL) ICOM	

(Continued on page 257)

INCIDENT COMMUNICATIONS SECTION

(Continued from page 256)

GROUND AIRCRAFT RADIO/LINK KIT

	3 EA	INSTALLATION INSTRUCTIONS
	3 EA	KIT INVENTORY WORKSHEETS
	2 EA	LEAD BOX SEAL
4307	1 EA	LINER, FOAM, 5-POCKET
4659	1 EA	MICROPHONE, DANIELS
	4 EA	OPERATING BOOKLETS, ICOM
	3 EA	OPERATING INSTRUCTIONS, DANIELS
	1 EA	POWER CORD, 2-PIN, DANIELS
	1 EA	POWER CORD, 2-PIN, w/ALLIGATOR CLIPS
	1 EA	POWER CORD, 2-PIN, w/BATTERY CONN
4402	4 EA	RADIOS, ICOM, IC-A3
4668	1 EA	RF CABLE w/2 EA N CONN (A SIDE RX)
4669	1 EA	RF CABLE w/2 EA N CONN (A SIDE TX)
4690	1 EA	SCREWDRIVER, DANIELS
4171	1 EA	SCREWDRIVER 4"
4409	1 EA	SPEAKER, EXTERNAL, 8-OHM
4651	1 EA	SUBRACK
4665	1 EA	SYSTEM MONITOR w/2 ANT RELAYS
2098	8 EA	T-CARD, RADIO TRACKING
0825	6 EA	TENT STAKES
4683	1 EA	UHF FM SYN RECEIVER, DIGITAL
4682	1 EA	UHF FM SYN TRANSMITTER, 2 WATT DIGITAL
4667	1 EA	VHF AM SYN RECEIVER
4666	1 EA	VHF AM SYN TRANSMITTER, 8 WATT
0332	1 EA	WRENCH, ADJUSTABLE 6"



INCIDENT COMMUNICATIONS SECTION

GROUND VHF-AM BASE STATION

NFES 4300

Loc: GBK

WT: 80 lb (36.36kg)

CU: 43 ft (1.22m)

DIM: 20"x21"x15"

KIT CONTAINS TRACKABLE PROPERTY

This kit is a portable, battery-operated VHF-AM aircraft base station consisting of a 760-channel AM radio. This kit is not linkable and is used as a base station for Forest Health Protection projects, air tanker bases, and all hazard incidents. This kit can be operated via dry-cell batteries, deep-cycle batteries, or by an automobile accessory plug-in. Four (4) handheld ICOM VHF-AM radios are included, as well as T-cards for radio check-outs. **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.

NFES	QTY	DESCRIPTION	\$2,520.21
	1 EA	ADAPTER, CAR BATTERY, FEMALE w/CONNECTOR	
	1 EA	ADAPTER, CAR BATTERY, MALE (TBS-150)	
4339	1 EA	ADAPTER, COAXIAL, BARREL	
	1 EA	ADAPTER, N. MALE TO UHF FEMALE, (RFN1035-1)	
4343	1 EA	ANTENNA, VHF AM, AV-1 w/BAND	
5082	5 EA	ANTENNA, ICOM, HANDHELD, HELICAL	
	1 EA	BASE STATION, TBS-150 VHF-AM	
1023	4 EA	BATTERY, 7.5 V	
0030	4 PG	BATTERY, AA	
	8 EA	BATTERY JUMPERS (4 BLACK, 4 RED)	
	3 EA	BATTERY STRAPS, 1 RED/BLK, 1 RED, 1 BLACK	
4309	1 EA	BOX, FIBERGLASS	
4326	1 EA	CABLE, COAXIAL, w/2 EA 4327 (PL-259)	
5084	4 EA	CASE, RADIO, ICOM	
	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	
4308	1 EA	GUY ASSEMBLY, ANTENNA	
4303	1 EA	HAMMER	
5083	4 EA	HOLDER, CLAMSHELL, BATTERY, ICOM	
	3 EA	INSTALLATION INSTRUCTIONS	
	1 EA	INSTRUCTION MANUAL, TBS-150	

(Continued on page 259)

INCIDENT COMMUNICATIONS SECTION

(Continued from page 258)

GROUND VHF-AM BASE STATION KIT

	3 EA	KIT INVENTORY WORKSHEETS
	2 EA	LEAD BOX SEAL
4307	1 EA	LINER, A/C, 5 POCKET
5066	1 EA	MIC (TELEX) w/3 PIN MALE CONNECTOR
	4 EA	OPERATING BOOKLET ICOM/KING
	1 EA	POWER CORD, 120 V, AC (TBS-150)
4402	4 EA	RADIOS, ICOM, AM (IC-A3)
4171	1 EA	SCREWDRIVER 4"
2098	8 EA	T - CARDS, RADIO ACCOUNTABILITY
0825	3 EA	TENT STAKES
0332	1 EA	WRENCH, ADJUSTABLE 6"



INCIDENT COMMUNICATIONS SECTION

IRIDIUM PHONE KIT

NFES 4630

Loc: GBK

TOTAL 2 PIECES: WT: 65 lb (29.55kg)

CU: 3.5 ft (.10m)

Piece 1/BOX:

WT: 65 lb (29.48 kg)

CU: 3.5 ft (1.07m)

DIM: 21"X20"X16"

Piece 2/MASTS:

WT: 8lb (4.54kg)

CU: 1.0 ft (.30m)

DIM: 60"X3"X3" PER MAST

KIT CONTAINS TRACKABLE PROPERTY

NFES	QTY	DESCRIPTION	\$2,327.50
4623	1 EA	A/C CHARGER TO DOCKING STATION	
4621	1 EA	ADAPTER, PHONE TO DOCK	
4619	1 EA	ANTENNA, FIXED MAST	
4612	1 EA	ANTENNA, MOBILE MAG	
1023	4 EA	BATTERY, 7.5 V	
	6 EA	BATTERY CONNECTORS	
	6 EA	BATTERY JUMPERS, 3 RED & 3 BLACK	
	3 EA	BATTERY SETUP SHEETS	
	3 EA	BATTERY STRAPS, 15 V	
4309	1 EA	BOX, FIBERGLASS (RADIO & REPEATER)	
4620	1 EA	CABLE, DOCKING STATION TO ANTENNA	
	3 EA	CALLING INSTRUCTIONS	
4618	1 RO	D/C POWER ADAPTER/DOCKING STATION TO AUTO	
4617	1 EA	DOCKING STATION	
	1 RO	FILAMENT TAPE	
	1 RO	FLAGGING TAPE	
	1 EA	FUSE, 3 AG. 5 AMP	
	1 EA	GARBAGE BAG	
4308	1 EA	GUY ASSEMBLY, ANTENNA	
4303	1EA	HAMMER	
4622	1 EA	HANDSET w/PHONE CORD & RJ45 PLUG	
	3 EA	INSTALLATION INSTRUCTIONS	
	3 EA	INVENTORY SHEETS	
	3 EA	KIT INVENTORY WORKSHEETS	
	2 EA	LEAD BOX SEALS	
	2 EA	LEAD BOX SEALS	
4305	3 EA	MASTS, ANTENNA	
4609	1 EA	PHONE BOX, FIBERGLASS	
0825	3 EA	STAKES, TENT	

INCIDENT COMMUNICATIONS SECTION

LOGISTICS RADIO KIT

NFES 4244

Loc: GBK

WT: 75 lb (34.10kg)

CU: 3.5 ft (.10m)

DIM: 20"X21"X15"

KIT CONTAINS TRACKABLE PROPERTY

This radio kit is designed to be used for all hazard incident support personnel, e.g., Planning, Logistics, and Finance. The kit contains 16 UHF radios that operate independently or in conjunction with a UHF Repeater Kit NFES #4248. The synthesized radios contain both DOI and USDA-FS frequencies, including all simplex and repeat pair frequencies. **ALL** frequencies must be cleared for use by the NIICD CDO.

UHF KING RADIOS: The 210 channel LPV radios have 15 groups and 14 channels. The groups are accessed when the radio is turned on by pressing the number on the front pad for the group desired when GRP appears on the display. Refer to the frequency charts in the kits for additional information. These radios are password protected. The CDO will supply the authorization code upon request to communications personnel.

NOTE: All NIRSC UHF King Radio Kits will use the NFES #1034, 9-cell battery clamshells.

NFES	QTY	DESCRIPTION	\$327.63
4309	1 EA	BOX, FIBERGLASS (RADIO & REPEATER)	
	3 EA	FREQUENCY CHARTS	
	3 EA	KIT INVENTORY WORKSHEETS	
4306	1 EA	LINER, FOAM, RADIO KIT	
	2 EA	LEAD BOX SEAL	
	3 EA	RADIO TRACKING SHEETS	
2098	32 EA	T-CARDS, RADIO ACCOUNTABILITY	

When placing the order, do not specify the manufacturer using the subkit numbers. Please specify by the manufacturer name to avoid any possible errors i.e. King, Racal, EF Johnson etc. then check with the CDO or COML.

SUBKITS:

NFES 4539		XTS 3000 RADIOS	\$41,962.35
4540	19 EA	ANTENNA, UHF	
0030	16 PG	BATTERY, AA	
4541	16 EA	HOLDER, BATTERY (CLAMSHELL)	
4542	16 EA	HOLSTER, LEATHER	
4538	16 EA	RADIOS, XTS 3000 (TRACKABLE)	
4543	4 EA	SPEAKER, MICROPHONE	
NFES 4246		KING RADIOS	\$13,354.30
5350	4 EA	ANTENNA, ADAPTER, MOBILE MAG	
5340	19 EA	ANTENNA, HELICAL, KING	
4355	4 EA	ANTENNA, MOBILE MAG	

(Continued on page 262)

INCIDENT COMMUNICATIONS SECTION

(Continued from page 261)

LOGISTICS RADIO KIT

KING RADIOS (cont.)

0030	12 PG	BATTERY, AA
5331	16 EA	CASE, KING RADIO
5353	16 EA	GUARD, KEYBOARD/FACEPLATE, KING
1034	16 EA	HOLDER, BATTERY (CLAMSHELL)
4404	16 EA	RADIO, KING, UHF, EPH (TRACKABLE)
5330	4 EA	SPEAKER, MIC, KING

NFES 4224 E.F. JOHNSON RADIOS \$38,250.51

4355	4 EA	ANTENNA, MOBILE MAG
4229	19 EA	ANTENNA, UHF, E.F. JOHNSON
0030	16 PG	BATTERY, AA
4225	1 EA	CABLE, CLONING, E.F. JOHNSON
4231	16 EA	HOLDER, BATTERY, AA, E.F. JOHNSON
4230	16 EA	HOLSTER, LEATHER, E.F. JOHNSON
4227	16 EA	RADIO, E.F. JOHNSON (TRACKABLE)
4232	16 EA	SPEAKER, MIC, E.F. JOHNSON

NFES 4536 MOTOROLA XTS-2500 \$24,884.32

4355	4 EA	ANTENNA, MOBILE MAG, VHF/UHF
4540	19 EA	ANTENNA, UHF, MOTOROLA XTS-3000
0030	16 PG	BATTERY, SIZE AA
4544	1 EA	CABLE, CLONING, MOTOROLA XTS- 5000
4537	16 EA	HOLDER, BATTERY, AA MOTOROLA XTS-2500
4542	16 EA	HOLSTER, LEATHER, MOTOROLA XTS-3000
4535	16 EA	RADIO, MOTOROLA, XTS-2500
4543	4 EA	SPEAKER, MIC, MOTOROLA XTS-3000



INCIDENT COMMUNICATIONS SECTION

LOGISTICS REPEATER KIT

NFES 4248

Loc: GBK
WT: 80 lb (36.36kg)
CU: 4.5 ft (.13m)
DIM: 20"x21"x15"

The Logistics Repeater Kit must be used in conjunction with the Logistics Radio Kit, NFES #4244. 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 which frequency is 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	\$10,670.66
4339	1 EA	ADAPTER, BARREL CONNECTOR	
	1 EA	ALLEN WRENCH	
4304	1 EA	ANTENNA, UHF, WHIP w/BLUE BAND LOAD	
4650	1 EA	AUDIO CONTROL	
4489	1 EA	BASE, ANTENNA UHF w/GND PLANES & WRENCH	
1023	4 EA	BATTERIES, 7.5 VOLT	
	8 EA	BATTERY JUMPERS, 4 RED, 4 BLACK	
4309	1 EA	BOX, FIBERGLASS (RADIO & REPEATER)	
4326	1 EA	CABLE, COAXIAL w/2 EA 4327 (PL-259)	
4677	2 EA	CABLE, UHF DUPLEXER TO RADIO	
4297	1 EA	DUPLEXER, UHF	
	1 RO	FILAMENT TAPE	
	1 RO	FLAGGING TAPE	
	1 BX	FUSES, 3 AG, 5 AMP	
	1 EA	GARBAGE BAG	
4308	1 ST	GUY ASSEMBLY, ANTENNA	
4303	1 EA	HAMMER	
	3 EA	INSTALLATION INSTRUCTIONS	
	3 EA	KIT INVENTORY WORKSHEETS	
	2 EA	LEAD BOX SEAL	
4659	1 EA	MICROPHONE, DANIELS	
	1 EA	POWER CORD, w/FEMALE CINCH CONNECTOR	
4683	1 EA	RECEIVER, UHF DIGITAL	
4690	1 EA	SCREWDRIVER, DANIELS	
4171	1 EA	SCREWDRIVER 4"	
	3 EA	STRAPS, BATTERY	
4651	1 EA	SUBRACK	
4652	1 EA	SYSTEM MONITOR	
0825	3 EA	TENT STAKES	
4682	1 EA	TRANSMITTER, UHF DIGITAL	
4333	1 EA	WIRE ASSEMBLY, FUSED 5 AMP	

INCIDENT COMMUNICATIONS SECTION

MAFFS BASE STATION (No NFES number assignment)

Loc: GBK

WT: 80 lb (36.29 kg)

CU: 3.5 ft (1.07m)

DIM: 21"x20"x16"

KIT CONTAINS TRACKABLE PROPERTY

This kit is ordered by description only through the normal dispatch channels.

The Modular Airborne Fire Fighting System (MAFFS) base stations are used only with the military C-130 air tankers. The MAFFS Base Stations will be issued to tanker bases dedicated to C-130 MAFFS air tankers. Additional TAF-550's are available (without accessories) for non-MAFFS use.

This kit is a portable combination 138 to 174 MHz VHF-FM and 760-channel VHF-AM base station. This kit cannot be linked or remoted. The VHF-FM radio is a Technisonic TFM-138B airborne radio and is capable of transmitting 10 watts, 120 pre-set channels, simultaneous Air Guard (168.625) reception, and scanning. The VHF-AM radio is capable of transmitting 7 watts, 10 pre-set channels, and scanning. TAF-550 operates using 115 VAC or 24 VDC/12 VDC* through an automobile accessory plug-in. (24 VDC and 12 VDC* plug-ins are not included with MAFFS Base Stations.) A headset is included for noisy environments in addition to a handheld microphone. *12 VDC not recommended due to high current draw.



INCIDENT COMMUNICATIONS SECTION

PORTABLE IR DOWNLINK KIT

NFES 4800

Loc: GBK
WT: 20 lb (9.09kg)
CU: 1.1 ft (.03m)
DIM: 21"x13"x7
KIT CONTAINS TRACKABLE PROPERTY

The Portable IR Downlink is designed for use only by Infrared Interpreters (IRIN). It is used to transfer data from the infrared aircraft flying fire missions to the IRIN on the ground for situations where delivery time is critical. Easy to follow setup instructions are included so all the user needs to do is set up the antenna, connect a CAT5 cable to the computer, and turn it on. All data will be transferred by the technician in the aircraft to the "My Documents" directory on the PC in the ground station.

This unit is designed to operate on 115 Vac 60 HZ systems so the user will need to find a suitable power source. The data links utilize the 902-928 MHz public spectrum which has a 1 watt power limitation, but since this is for EMERGENCY USE ONLY, the National Interagency Incident Communications Division (NIICD) has been granted a license to use up to 5 watts of power. Since this can cause severe interference in the public spectrum, this unit is to be utilized only when necessary and then turned off once the data-transfer is complete. **NOTE: Do not shut this unit down until communications has been established to the aircraft and you have been notified that all data has been transferred.**

The PC included in this kit is for use by the IRIN for the manipulation and viewing of the infrared imagery. Most applications needed by the IRIN are included, but in the event more applications are needed, administrative rights to install software/drivers have been installed. The procurement and installation of approved software is the IRIN's responsibility. A CD-R/W drive has been included in the PC so user created data can be removed. Procurement of suitable media is the responsibility of the IRIN. When the units are returned to NIFC, the hard drives will be restored to their original condition. Any data on the units will be completely and irretrievably erased. Data storage and archival operations are to be performed by the IRIN. Kits can be delivered by the infrared aircraft but after a resource order has been processed and approved by the incident. Once the infrared aircraft is no longer required at the incident, the kit must be promptly returned to NIRSC at NIFC for refurbishment. The PC included in this kit is NOT to be used for other purposes. **These kits are not to be transferred to other incidents before being returned to NIRSC at NIFC.**

NFES	QTY	DESCRIPTION	\$3,403.98
	1 EA	ALLEN WRENCH	
4803	1 EA	AMPLIFIER, AAA 5 WATT	
4801	1 EA	ANTENNA, 3Db OPEN COIL OMNI-DIRECTIONAL	
	4 EA	ANTENNA GROUND RADIALS	
	1 EA	CABLE, AMPLIFIER TO ANTENNA (SMA TO N-TYPE, 10 FOOT)	
	1 EA	CABLE, MODEM TO DIPLEXER (N-TYPE TO N-TYPE, 2 FOOT)	
4806	1 EA	CASE ASSEMBLY	
4802	1 EA	DATALINK ETHERNET MODEM (FGR-115RE)	
	1 EA	DIPLEXER & POWER SUPPLY FOR 5 WATT AMP	
	1 EA	DIPLEXER TO AMP CABLE (N-TYPE TO SMA, 3 FOOT)	
4804	1 EA	FOAM PACKING	
4805	1 EA	NOTEBOOK, PERSONAL COMPUTER w/ETHERNET CONNECT	
	1 EA	OPERATING INSTRUCTIONS	
	1 EA	POWER SUPPLY FOR MODEM	
	1 EA	POWER SUPPLY FOR NOTEBOOK COMPUTER	
	1 EA	WRENCH, 5/16"	

INCIDENT COMMUNICATIONS SECTION

PUBLIC ADDRESS KIT

NFES 4410

Loc: GBK
WT: 60 lb (27.27kg)
CU: 3.5 ft (.20m)
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 amplifier can be powered by either A/C or batteries.

NFES	QTY	DESCRIPTION	\$535.11
4397	1 EA	AMPLIFIER, AUDIO, P.A.	
1233	2 EA	BATTERIES, 6 V HOT SHOT	
	6 EA	BATTERY CONNECTORS	
4309	1 EA	BOX, FIBERGLASS (RADIO & REPEATER)	
1172	1 EA	CORD, 100' EXTENSION	
	1 RO	FILAMENT TAPE	
	1 RO	FLAGGING TAPE	
	1 BX	FUSES, 3AG 1 AMP	
	1 EA	GARBAGE BAG	
	3 EA	INSTALLATION INSTRUCTIONS	
	3 EA	KIT INVENTORY WORKSHEETS	
	2 EA	LEAD BOX SEAL	
5037	1 EA	MICROPHONE, PA	
0325	1 EA	PLIERS, LINEMAN	
4171	1 EA	SCREWDRIVER, 4"	
4063	3 EA	SPEAKER, PA	
4377	1 RO	WIRE, 500 FT ROLL	
	10 EA	WIRE NUTS, SMALL	

INCIDENT COMMUNICATIONS SECTION

REMOTE KIT

NFES 4330

Loc: GBK

**TOTAL 2 PIECES: WT: 95 lb (43.18kg)
CU: 4.5 ft (.13m)**

Piece 1/BOX:	Piece 2/MAST:
WT: 95 lb (43.09 kg)	WT: 8lb (3.63 kg)
CU: 3.5 ft (1.07m)	CU: 1.0 ft (.30m)
DIM: 20"X21"X15"	DIM: 60"X3"X3" PER MAST

This kit can be used with the NIRSC King radios. UHF and VHF radios are included in this kit. Use of this kit, in conjunction with King radios allows a remote base station to be installed up to a half mile away from the ICP, camps, helibase, etc., to gain communications with other incident locations. With additional field wire, runs up to several miles can be made.

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. Several antenna options are available including omni directional UHF and VHF antennas and a breakdown UHF Yagi directional gain antenna.

ALL frequencies must be cleared by NIICD CDO or COMC.

NFES	QTY	DESCRIPTION	\$2,642.29
4339	1 EA	ADAPTER, BARREL CONNECTOR	
	1 EA	ALLEN WRENCH	
4489	2 EA	ANTENNA BASE w/GRND PLANES-UHF & VHF	
4304	1 EA	ANTENNA, UHF, WHIP w/UHF LOAD	
4464	1 EA	ANTENNA, VHF, WHIP w/PO-150 LOAD	
5208	1 EA	ANTENNA, YAGI, w/U BOLT, CLAMP AND NUTS	
1023	2 EA	BATTERY, 7.5 V	
1233	2 EA	BATTERY, 6 V, HOTSHOT	
5327	1 EA	BATTERY ELIMINATOR, KING	
	6 EA	BATTERY, JUMPERS, 3 RED, 3 BLACK	
5338	1 EA	BOX, ALUMINUM	
4309	1 EA	BOX, FIBERGLASS (RADIO & REPEATER)	
4471	1 EA	BOX, GRAY, REMOTE CHASSIS	
4326	1 EA	CABLE, COAXIAL w/2 EA 4327 (PL-259)	
5326	1 EA	CABLE/CONNECTOR ASSEMBLY, KING	
4180	1 EA	CONNECTOR, 90 DEGREE, UHF	
4473	1 EA	DESK SET, CPI, MOD DR-10	
	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	
4308	1 EA	GUY ASSEMBLY, ANTENNA	
4303	1 EA	HAMMER	

(Continued on page 268)

INCIDENT COMMUNICATIONS SECTION

(Continued from page 267)

REMOTE KIT

	3 EA	INSTALLATION INSTRUCTIONS
	3 EA	KIT INVENTORY WORKSHEETS
	42 EA	LEAD BOX SEAL
4305	3 EA	MAST, ANTENNA 5 FT SECTION
5342	1 EA	PANEL, TERMINATION
0325	1 EA	PLIERS, LINEMAN
4404	1 EA	RADIO, KING, UHF/EPH
4322	1 EA	RADIO, KING, VHF/EPH
4171	1 EA	SCREWDRIVER, 4"
4409	1 EA	SPEAKER, EXTERNAL, 8 OHM
0825	3 EA	TENT STAKES
4274	1 EA	TRANSFORMER, A/C
4302	1 EA	WIRE ASSEMBLY, FUSED, DC/1 AMP
4332	1 RO	WIRE, FIELD TELEPHONE, 1/4 MILE REEL
	6 EA	WIRE NUTS



INCIDENT COMMUNICATIONS SECTION

STARTER SYSTEM ICS COMMAND/LOGISTICS RADIO KITS

NFES 4390

Loc: GBK

TOTAL 17 PIECES: WT: 930 lb (422.73kg)

CU: 81.60 (2.31m)

10 BOXES:

WT: 905 lb (410.51 kg)

CU: 35 ft (10.67m)

DIM: 10 EA AT 20"X21"X15"

7 SETS OF MASTS:

WT: 56 lb (25.40 kg)

CU: 7.0 ft (2.13m)

DIM: 60"X3"X3" PER MAST

KIT CONTAINS TRACKABLE PROPERTY

These kits are designed to be the initial system to support basic incident communication requirements. This system provides the equipment necessary to facilitate immediate communications for command, tactical, logistical and ground-to-air needs.

The Starter System consists of:

- 1 Command Repeater (specify frequency)
- 3 CMD/TAC Radio Kits (48 radios total)
- 1 Ground Aircraft Radio/Link Kit (with 4 ICOM radios)
- 2 Remote Kits
- 1 Logistics Repeater (specify frequency)
- 1 Logistics Radio Kit (16 radios total)
- 1 Iridium Phone Kit

Logistic capabilities are included with all Starter Systems, e.g., logistics repeater, logistics kit and 2 remote kits. The Command Repeater Kit is marked appropriately on the outside with the frequencies C1, C2, C3, C4, C5, C6, and C7 and includes the NIRSC User's Guide. **ALL** frequencies must be assigned and cleared by the NIICD CDO prior to shipment.

For multi-incident COMLs or multi-incident complexes where several ICS Starter Systems are being ordered, the assigned Communications Coordinator (COMC) must be contacted for ordering, system planning and frequency coordination assistance. For single incident situations where communications personnel are not familiar with equipment, the NIICD CDO must be contacted for ordering, system planning and frequency coordination.

The cost for this system is approximately \$100,000.00 but will vary according to the kits and subkits that are actually ordered and sent.

NFES	QTY	DESCRIPTION
4381	3 EA	COMMAND/TACTICAL RADIO KIT
4312	1 EA	COMMAND REPEATER
4370	1 EA	GROUND AIRCRAFT RADIO/ LINK KIT
4630	1 EA	IRIDIUM PHONE KIT
4244	1 EA	LOGISTICS RADIO KIT
4248	1 EA	LOGISTICS REPEATER
4330	2 EA	REMOTE KIT



INCIDENT COMMUNICATIONS SECTION