

OSRV Command and Control Center Communications Equipment

Radio Equipment

	Quantity
<i>ICOM A110 Aviation</i>	1
<i>Sailor RT-2048 VHF Marine</i>	1
<i>ICOM IC-M700 HF-SSB Radio</i>	1
<i>Motorola CDM-1250 VHF Base Station</i>	2
<i>Motorola CDM-1250 UHF Base Station</i>	1
<i>Gai-Tronics Radio Dispatch Console - centralized control of all radios. Provides Radio to Radio or Radio to Phone patch capabilities.</i>	1

Satellite Equipment

<i>MSAT-G2 Satellite Phone - single channel voice</i>	1
<i>BEAM RST100 Iridium Satellite Phone - single channel voice and fax</i>	1
<i>NERA Fleet-77 Satellite Phone - Capabilities listed below:</i>	1
<ul style="list-style-type: none">• Single channel voice• Single channel fax• MPDS data - up to 64 kbps<ul style="list-style-type: none">• 64K ISDN Data• 128K ISDN Data	

Computer Equipment

<i>Apple Mac Mini computer</i>	2
<i>HP All-in-One Printer/Copier/Scanner/Fax</i>	1

Cellular Equipment

<i>Telular Cell phone with PBX Interface - voice only</i>	1
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Cradlepoint Router w/cellular interface - provides internet access over the cellular network **available only if the OSRV is within cellular coverage**

1

Phone Equipment

Northern Telecom Option 11 PBX

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Provides extension to extension dialing as well as access to satellite and cellular capabilities via analog and digital phones placed throughout the OSRV

Small Satellite Package

Satellite Equipment

Quantity

<i>Patriot 1.2M Flyaway Satellite Dish</i>	1
<i>4 Watt Ku-Band Block Up-Converter (Satellite Radio)</i>	1
<i>iDirect 5000 Series Satellite Modem</i>	1
<i>Misc. Cabling (RF)</i>	1

Satellite Bandwidth

512K up, 1.544M down on a 10 to 1 oversubscribed network

Network Equipment

<i>CISCO 871W Router</i>	1
<i>Linksys 8 port Switch</i>	1
<i>Misc. Cabling (Ethernet)</i>	1
<i>CISCO Aironet 1242 Access Point</i>	2

Phone Equipment

<i>CISCO 7960G Wired IP Phone</i>	4
<i>CISCO 7921 Wireless IP Phone</i>	4

Computer Equipment

<i>Dell PC Laptop</i>	1
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Capabilities

8 phones (4 wired and 4 wireless)
Internet access
Qualified technicians for installation and operation

Emergency Communications Package

Power	Quantity	
<i>MQ Power Generator with 3/4 tank of fuel</i>	1	
<i>Kohler Generator with 3/4 tank of fuel mounted on BigTex T</i>	1	
 Satellite Equipment		
<i>iAutoSat 1.2M auto acquire satellite dish</i>	1	
<i>Patriot 1.2M Flyaway Satellite Dish</i>	2	
<i>Patriot 1.8M Flyaway Satellite Dish</i>	1	**PACNW & East Only
<i>iDirect 5100 Satellite Router</i>	3	
<i>4 Watt Ku-Band Block Up-Converter (Satellite Radio)</i>	3	
<i>10 Watt Ku-Band Block Up-Converter (Satellite Radio)</i>	1	**PACNW & East Only
 Radio Equipment		
<i>ICOM IC-M602 Marine Base Station</i>	2	
<i>ICOM IC-A110 Aviation Base Station</i>	1	
<i>Motorola CDM-1250 VHF Base</i>	2	
<i>Motorola CDM-1250 UHF Base</i>	1	
<i>Telex Vega IP-1616 VoIP Radio/Telephone Crosspatch Console</i>	1	
<i>Telex Vega IP-223 Dual IP Remote Adapter Panel</i>	4	
<i>Telex Vega PIB-223 Telephone Interface Device</i>	1	
<i>Telex Vega NI-223 IDEN Phone Interface</i>	1	
<i>Telex Computer Console (PC Laptop w/C-Soft software)</i>	1	
<i>Telex Vega USB Software Dongle</i>	1	
<i>Telex Vega Desktop Microphone</i>	1	
<i>External Speakers to C-Soft Radio Dispatch Console</i>	1 set	
<i>CISCO Catalyst Express 500 24 port 10/100 POE Switch</i>	1	
<i>Aviation Flyaway Kit</i>	1	
<i>VHF Narrow Band Repeater w/duplexer</i>	2	
<i>VHF Wide Band Repeater w/duplexer</i>	2	
<i>UHF Repeater w/duplexer</i>	2	

Emergency Communications Package

<i>VHF Portable Base Station</i>	3
<i>UHF Portable Base Station</i>	3
<i>VHF Marine Portable Base Station</i>	3
<i>Motorola UHF PR-1500 Handheld Radio Set includes:</i>	1 box of 10 each
<i>Radio</i>	10
<i>Batteries</i>	20
<i>Chargers 6 Port</i>	1
<i>Speaker/Mics</i>	10
<i>Belt Clips/Radio Holsters</i>	10 Each
<i>Motorola VHF PR-1500 Handheld Radio includes:</i>	3 boxes of 10 each
<i>Radio</i>	30
<i>Batteries</i>	60
Chargers 6 port	3
Speaker/Mics	30
<i>Belt Clips/Radio Holsters</i>	30 Each

Network/Voice Equipment

<i>Cisco 2851 Router (Primary)</i>	1
<i>Cisco Unity Express Module</i>	1
<i>CISCO Catalyst Express 500 24 port 10/100 POE Switch</i>	3
<i>CISCO 2851 Router (Secondary)</i>	1
<i>CISCO VG-224 Analog Phone VoIP Gateway</i>	3
<i>APC SUA-750RM2U UPS</i>	2
<i>CISCO VG-224 Analog Phone VoIP Gateway (Spare)</i>	1
<i>CISCO Catalyst Express 500 24 port 10/100 POE Switch (Spare)</i>	1
<i>CISCO 7960 IP Phones</i>	10
<i>Motorola TEAM EWP2100 Wireless IP Phone with extended battery and charger</i>	20
<i>500 telephone sets w/cords and RJ11 blocks</i>	50

Wireless Equipment

Emergency Communications Package

<i>Motorola WSM Server</i>	1
<i>CISCO AIRONET 1310 Outdoor Access Point</i>	2
<i>Motorola 5131 Access Point</i>	2
<i>Directional, 2.4ghz Ant.</i>	2
<i>Omni, 2.4ghz Ant.</i>	2

Satellite Space Segment – 3M (1M up/2M down) shared across all 7 comm suites

Capabilities

Supports up to 96 phones (Combination of wired and wireless)

Internet access - wired (Ethernet) and wireless

Land mobile radio support - repeaters/base stations/intrinsically safe handheld radios

Qualified technicians for installation and operation