Section 8:
Deployable Tactical Operations System

Section 8: Deployable Tactical Operations System (DTOS)

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DTOS Overview

The Deployable Tactical Operations System (DTOS) provides mobile command and control platforms and communications in support of the quick ramp-up of initial emergency response missions for the USACE. The DTOS system responds to District, Division, National, and International events. DTOS consists of the following resources:

- 3 Deployable Tactical Operations Centers (DTOCs)
- 6 Rapid Response Vehicles (RRVs)
- 2 Containerized Tactical Operations Centers (CTOCs)
- 38 INMARSAT Phones at each District

See Appendix D for contacts.

Deployable Tactical Operations Center

Deployable Tactical Operations Center (DTOC)

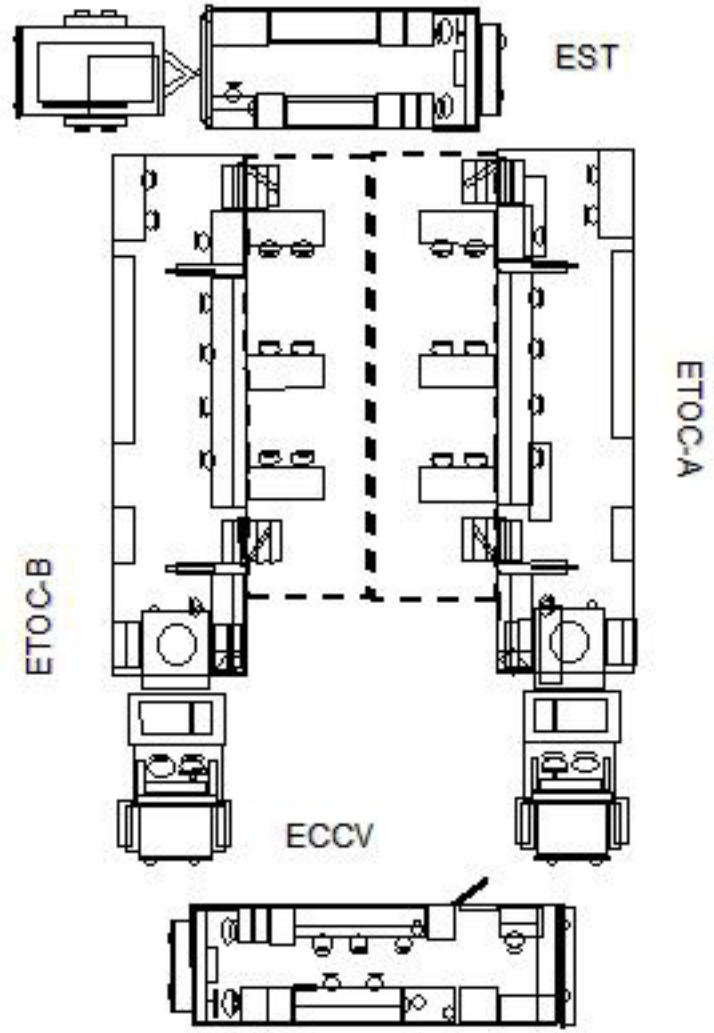
Purpose:

Four vehicles supporting a 21-person staff inside the combined units and a 12-person staff outside with canopies deployed.

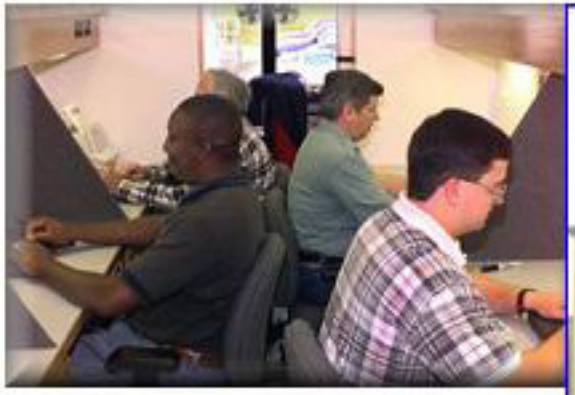
- 2 Emergency Tactical Operations Centers (ETOC)
- 1 Emergency Support Trailer (EST)
- 1 Emergency C2 Vehicle (ECCV)

Components:

1 Network	21 Computers
Phone Lines	VHF, HF, & CB
Cell Phones	VOIP Phones
SAT Com	Digital Camera
GPS	Photocopiers
Self-Contained Power (ECCV)	
Two trailered 40 kVA Gensets	
One trailered satellite system	



Rapid Response Vehicles (RRVs)



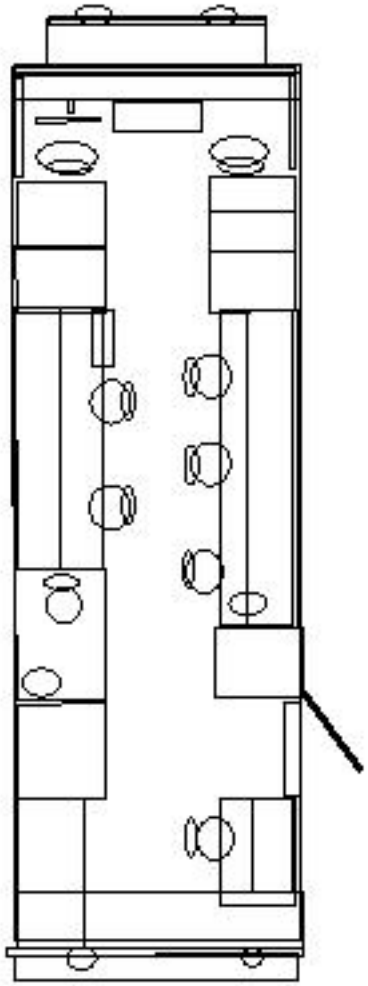
Rapid Response Vehicles (RRVs)

Purpose:

Accommodates a six-person staff for regional response throughout CONUS within 18 hours

Components:

6 Landline Phone Connections	1 Data Line Connection
56k/64k T1 Connection	6-Port Wireless Network
10 phones with intercom	6 VOIP Phones
1 INMARSAT	1 Digital Camera
1 Handleld GPS	24 VHF Radios
1 VHF Repeater	1 Cellular Phone
6 Laptop Computers	1 VICAM
1 Copier	1 Printer
1 System Server	1 Fax
1 Wireless Access Port/Bridge	1 Hub



Containerized Tactical Operations Center (CTOC)

Containerized Tactical Operations Center (CTOC)

Purpose:

Containerized equipment for rapid deployment overseas

Components:

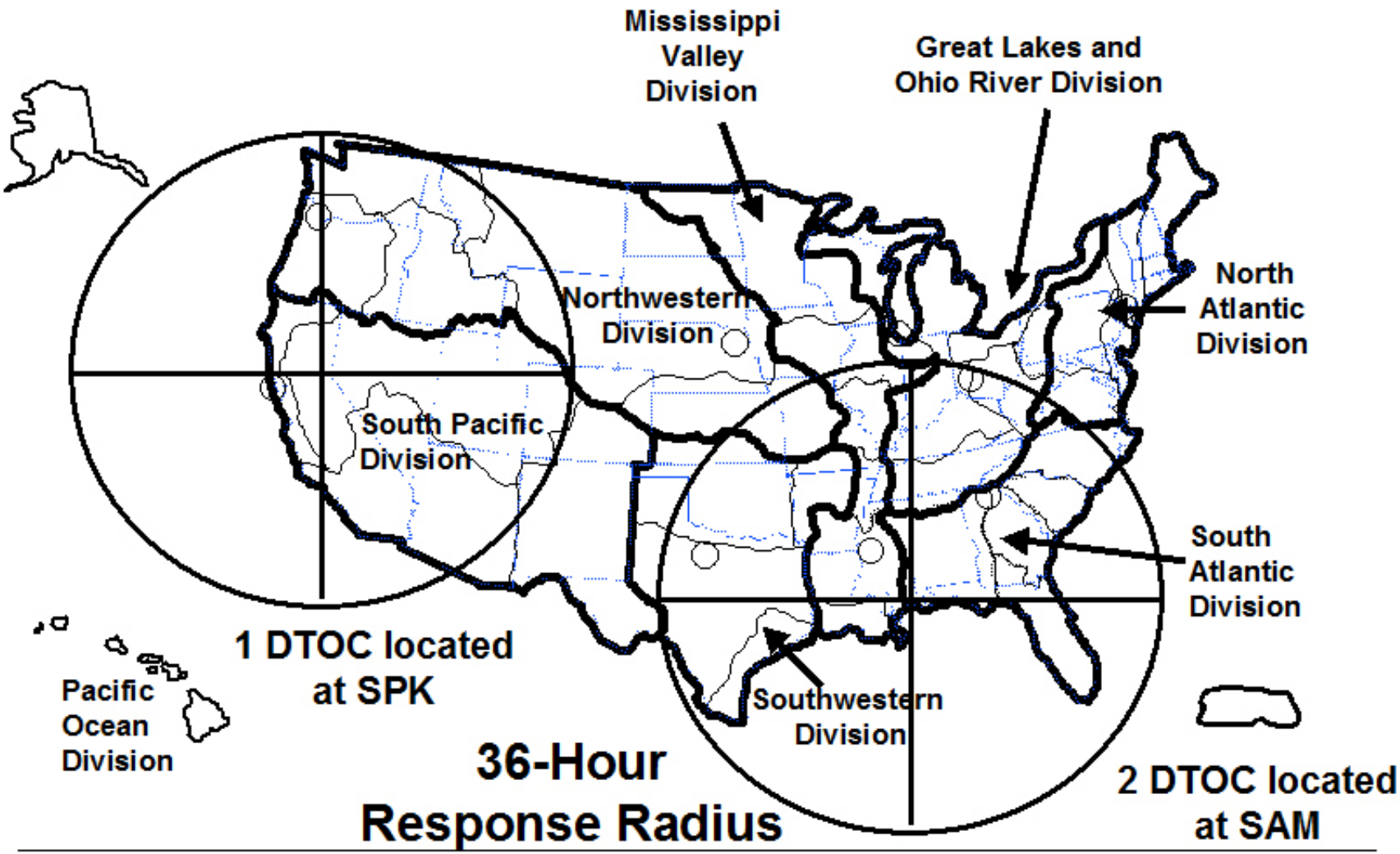
1 Fax	1 HF/Antenna
1 UPS	1 VHF Mobile
1 Hub	1 Cellular Phone
3 GPS	1 System Server
1 VICAM	10 Laptop Computers
1 Copier	1 VHF Repeater/Antenna
1 Printer	1 Digital Camera/Chargers
1 INMARSAT	50 VHF Handheld/Chargers
1 Verilink	1 Wireless Access Port/Bridge
1 Netbuilder	

Office Equipment

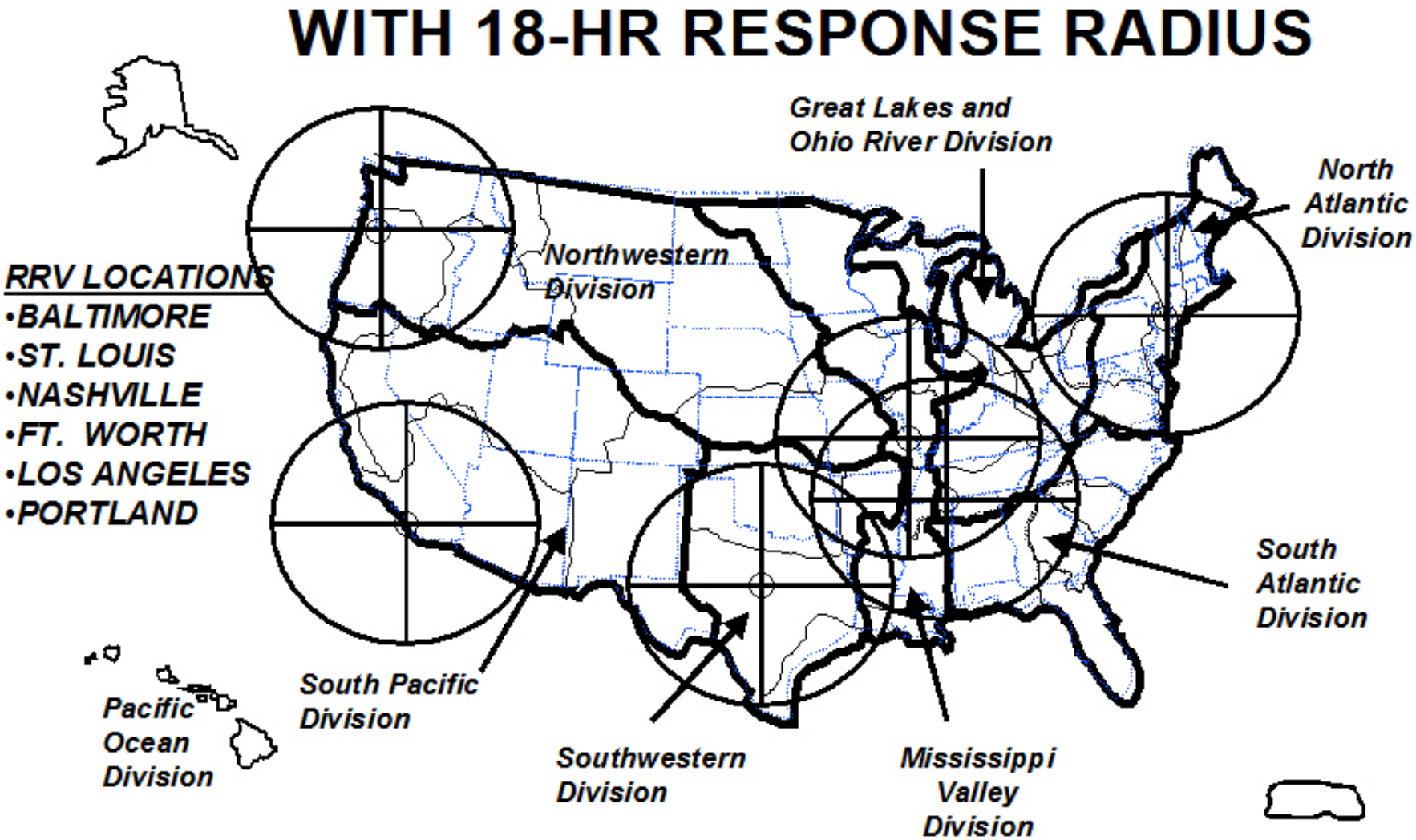
Communications

Computers

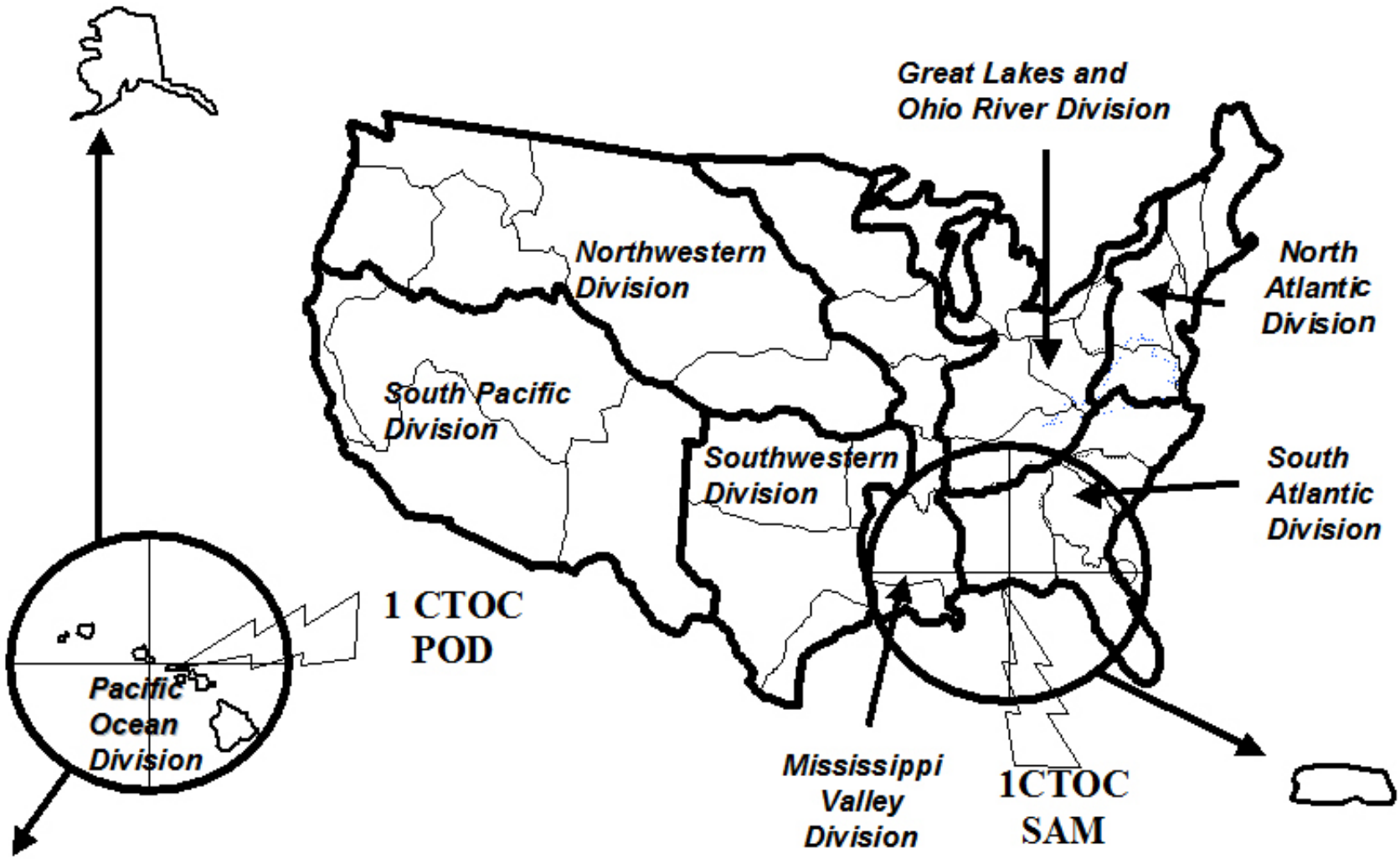
DTOC Locations



RRV Locations with 18-Hour Response Radius



CTOC Locations



DTOC Costs

Deployment: $9,497.00 per day (includes labor, per diem, incidentals, and vehicle fuel)
On Site: $8,052.00 per day (includes labor, per diem, incidentals, and generator fuel)
Re-deployment: $9,497.00 per day (includes labor, per diem, incidentals, and fuel)

Labor breakdown:

Labor (GS12, 14hr day)	~$1162.00
Per diem	~$ 150.00
Total per person	~$1312.00
DTOC Team (6 persons)	x6
Total Team Costs	~$7872.00

Fuel Costs:
Miles traveled/event estimated @ 500 miles/vehicle

DTOC:
- 6 vehicles @ 500 miles = 3,000 miles
- 3,000 miles @ 6 miles/gallon = 500 gallons
- 500 gallons x $3.25/gallon = $1,625.00 fuel cost

MQ Power 23 KW Genset:
- Capacity: 76.4 gallons diesel
- Consumption: 2.3 gals/hour
- Range: 33.2 hours/tank
- Avg. Fuel Cost: $3.25/gal
- Cost per 24-hr day: $180.00

Costs updated: February 6, 2008

RRV Costs

Mobilization: $4,548.25/day (includes labor, per diem, incidentals, and vehicle fuel)
On-Site: $4,116.00/day (includes labor, per diem, incidentals, and generator fuel)
Demobilization: $4,548.25/day (includes labor, per diem, incidentals, and vehicle fuel)

RRV Team will remain with vehicle

Labor Breakdown:

Labor (GS12, 14 hr day)	$1,162.00
Per diem	$ 150.00
Total per person	$1,312.00
RRV Team (3 persons)	x3
Total Team Costs	$3,936.00

Fuel Costs:
Miles traveled/event estimated @ 500 miles

RRV:
- 1 vehicle travels 500 miles
- 500 miles @ 6 mpg = 83 gallons
- 83 gallons @ $3.25/gal = $269.75

Chase Vehicle:
- 1 vehicle travels 500 miles
- 500 miles @ 10 mpg = 50 gallons
- 50 gallons @ $3.25/gal = $162.50

MQ Power 23 KW Genset:
Capacity: 76.4 gallons diesel
Consumption: 2.3 gals/hour
Range: 33.2 hours/tank
Avg. Fuel Cost: $3.25/gal
Cost per 24-hr day: $180.00

Costs updated: February 6, 2008