

## VIII. Transportation & Comms

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*Section VIII details the number and type transportation facilities and communications equipment for use within the Antarctic treaty area.*

### **Surface, Marine, and Air Transportation Vehicles**

#### **McMurdo Station**

Truck, (light and heavy)	95
Carrier, Personnel and Cargo (tracked and wheeled)	60
Trailer, (tracked and wheeled)	35
Front-end loader, bucket and forklift	40
Forklift, warehouse	20
Motor toboggans	120
Crane	3
Road grader	4
Roller	4
Tractor, crawler	41
Tractor, wheeled	2
Sweeper, magnet	1
Snow plane	5
Truck, fire, pumper	8
Aircraft, LC-130	6
Helicopters, Aerospatiale AS-350B-2	3

Helicopters, Bell 212	1
Scraper	2
Backhoe	2

### **Amundsen-Scott South Pole Station**

Cranes	3
Excavator	1
Front Loader, tracked	7
Motor Toboggans	12
Personnel Carrier	4
Snow Plane	2
Tele-handler	1
Tractor Crawler	7
Trencher	1
Truck, light and heavy	4

### **Palmer Station**

Front-loader (wheeled)	2
Motor toboggans	2
Boats, rubber (Zodiac)	16
Forklift, all terrain	1
Telescopic material handler	1
Vehicle, all terrain, 4-wheel	4

## **Description of Communications Facilities**

**Note:** For information on frequencies, see attached Comms forms (Attachment A).

### **McMurdo**

1. VYTEK taper transmitter
2. USES upgrade
3. Microwave radio replacement for Long Duration Balloon project

### **South Pole and Palmer stations**

No new communications related projects are planned at South Pole or Palmer stations during the reporting period.

## **Description of Airfields**

### **McMurdo Station**

#### ***Air Facilities***

1. Williams Field - 2 x 10,000ft, skiways on ice shelf
2. Sea Ice Runway - TBD
3. Pegasus Glacier Ice runway -1 x 10,000
4. McMurdo Helicopter landing pad

### **Crash Equipment/Fire Equipment**

1. Two Canadian Foremost Chieftains, 1200 gallons AFFF (each)
2. Two Nodwell Flex-Trac equipped with 1350 lb. PKP, 200 gallon AFFF
3. One Nodwell Flex-Trac equipped with 3,000 lb. PKP
4. Two Ford F-550 Mattrack equipped with 500lb Dry Chemical and 300 gallon aerosol foam
5. Seven 150 lb. PKP sled-mounted extinguisher on the flight line
6. Two 3,000 lb. PKP sled-mounted extinguishers at the heli-pad
7. One Tanker, 3,400 gallons of water
8. Two Pumpers, 750 gallons (H<sub>2</sub>O), 1000 GPM

### **Navigation Aids**

1. Precision (course & glide slope) Approach Radar (PAR) and Approach Surveillance Radar (ASR) on primary landing runways, AN/FPN-36 radar
2. AN/TRN-26 TACAN
3. AN/URN-25 TACAN
4. T-1109/GRT-22 UHF radio beacon
5. Terminal Approach Control Radar (GPN-27)
6. Precision Approach Path Indicator (PAPI)
7. Mobile Microwave Landing System (MMLS)
8. Microwave Landing System (MLS) (Projected operational capability November 2005)

## **Amundsen-Scott South Pole Station**

### **Air Facilities**

1 x 14,000 ft. skiway

### **Crash Equipment**

One 500 lb. Dry chemical unit mounted on Ford F-350 Flatbed truck

Three 350 lb. dry chemical units

### **Navigation Aids**

1. PAR and ASR radar, AN/FPN-36
2. AN/URN-25 TACAN
3. T-1109/GRT-22 UHF beacon

## **Palmer Station**

### **Air Facilities**

None. Open field landings on glacier possible

### **Crash Equipment**

None

### **Navigation Aids**

T-1109/GRT-22 UHF beacon

## **Marble Point Camp**

### ***Air Facilities***

One helicopter landing pad

### ***Crash Equipment***

1. Three 150 lb. dry chemical unit (PKP)

### ***Navigation Aids***

None