

## VIII. Transportation and 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)	106
Carrier, Personnel and Cargo (tracked and wheeled)	44
Trailer, (tracked and wheeled)	40
Front-end loader, bucket and forklift	50
Forklift, warehouse	21
Motor toboggans	90
Crane	2
Road grader	4
Roller	4
Tractor, crawler	27
Tractor, wheeled	2
Sweeper, magnet	1
Snow plane	6
Truck, fire, pumper	8
Trencher	2
Aircraft, LC-130	?
Aircraft, TC-130	?
Helicopters, UH-1N	?

Hovercraft	1
Scraper	2
Backhoe	2

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

Cranes	1
Front Loader, tracked	7
Motor Toboggans	2
Personnel Carrier	5
Snow Plane	2
Tractor Crawler	2
Truck, light and heavy	2

### **Palmer Station**

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

## **Description of Communications Facilities**

**Note:** For information on frequencies see Communications Forms.

The following projects are contemplated for the FY97-98 season in Antarctica.

### **McMurdo Station**

The following projects are contemplated for the FY97-98 season in Antarctica.

1. A Relocation of the Military Affiliated Radio Station equipment is planned.
2. Refurbishment of the AN/FRT-83(V) HF transmitters located at the McMurdo transmitter facility.

3. Dormitory Local Area Network connections are planned for the Mammoth Mountain Inn and Hotel California.
4. New repeaters utilizing CTCSS (continuous tone coded squelch system), will be deployed in the field.
5. An upgrade to the FOCC (Field Operations Communications Center) Zetron console is planned that will allow the unit to detect MDC1200 FSK messages.
6. Rewiring and electrical grounding work is scheduled for the Black Island Remote Communications facility.
7. The transition of AFRTS, T-site, and MacRelay from the NAVY to ASA will take place during the 1997/98 season.
8. Completion of the telephone upgrade in dormitories 201 through 205 is planned.
9. The CATV distribution systems will be balanced in dormitories 206 through 209.
10. There is a planned upgrade to the MCM3 file server in McMurdo.
11. A new E-mail message system and associated equipment upgrade is scheduled.
12. An upgrade to the remote message server is planned

## **Description of Airfields**

### **McMurdo Station**

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

1. Williams Field - 10,000 ft. and 8,000 ft. skiways on ice shelf.
2. 10,000 ft. and 8,000 ft. ice runways (on annual sea ice)
3. Helicopter landing pad.

#### ***Crash Equipment***

1. Two Canadian Foremost Chieftains, 1200 gallons AFFF (ea)
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. Seven 150 lb. PKP sled-mounted extinguisher on the flight line
5. Two 3,000 lb. PKP sled-mounted extinguishers at the heli-pad
6. One Pumper/Tanker, 3,400 gallons of water.
7. 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)

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

### ***Air Facilities***

14,000 ft. skiway

### ***Crash Equipment***

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. One 350 lb. dry chemical unit.
2. One 150 lb. dry chemical unit (PKP).

### ***Navigation Aids***

None.