

VIII. Transportation & Comms

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

Surface, Marine, and Air Transportation Vehicles

McMurdo Station

Truck, (light and heavy)	82
Carrier, Personnel and Cargo (tracked and wheeled)	57
Trailer, (tracked and wheeled)	35
Vehicle, all terrain, 4-wheel	5
Front-end loader, bucket and forklift	36
Forklift, warehouse	20
Motor toboggans	116
Crane	2
Road grader	3
Roller	6
Tractor, crawler	37
Tractor, wheeled	2
Sweeper, magnet	1
Snow plane	5
Truck, fire, pumper	9
Aircraft, LC-130	6
Helicopters, Aerospatiale AS-350B-2	2

Helicopters, Bell 212	2
Scraper	2
Backhoe	2
Trencher	1

Amundsen-Scott South Pole Station

Cranes	3
Excavator	1
Front Loader, tracked	11
Front end Loader, wheeled	1
Motor Toboggans	25
Personnel Carrier	4
Snow Plane	2
Tele-handler	1
Tractor Crawler	7
Trencher	1
Truck, light and heavy	5

Palmer Station

Front-loader (wheeled)	1
Motor toboggans	2
Boats, rubber (Zodiac)	16
Telescopic material handler	2
Vehicle, all terrain, 4-wheel	3
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

McMurdo Station NASA 7.2 meter antenna is in operation while the 11 meter antenna is being upgraded.

South Pole and Palmer stations

SPTR II Communications antenna pad and base steel started construction in FY08 with completion scheduled in FY09 for South Pole. Palmer Station Upgraded the satellite system from 768Kbs to 1.544Mbs, it is on Intelsat 707, but provided by AT&T. Replaced the Sunair HF radio, with an ICOM M802.

Description of Airfields

McMurdo Station

Air Facilities

1. Williams Field - 2 x 10,000ft, skiways on Ross ice shelf
2. Sea Ice Runway – 1x 10,000 ft with a 1,000 ft overrun
3. Pegasus White Ice runway -1 x 10,000 ft
4. McMurdo Helicopter landing pad

Crash Equipment/Fire Equipment

1. Two Canadian Foremost Chieftains, 1200 gallons AFFF (each)
2. One 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 gallon water tank)
8. Two Pumpers, (750 gallon water tank each) 1000 GPM
9. One additional Ford F-550 track-mounted truck equipped with 500 lb Dry Chemical and 300 gallon aerosol foam (projected delivery: mid-November 2006)

Navigation Aids

1. AN/URN-25 TACAN
2. AN/GRN-516 TACAN (Awaiting commissioning this season)
3. CM-200UT UHF Single Channel ATC Ground-to-Air Radio Transmitter
4. CM-200VT VHF Single Channel ATC Ground-to-Air Radio Transmitter
5. Precision Approach Path Indicator (PAPI)
6. Microwave Landing System (MLS)
7. Simplified Short Approach Lighting System (SSALR)

Amundsen-Scott South Pole Station

Air Facilities

1 x 14,000 ft. skiway

Crash/Fire Equipment

1. Two Canadian Foremost Chieftains, 1200 gallons AFFF (each)
2. One Nodwell Flex-Trac equipped with 1350 lb. PKP, 200 gallon AFFF
3. One Nodwell Flex-Trac equipped with 3,000 lb. PKP
4. Three Ford F-550 Mattrack equipped with 500lb Dry Chemical and 300 gallon Compressed Air Foam System (CAFS)
5. Seven 150 lb. PKP sled-mounted extinguisher on the flight line
6. Three 3,000 lb. PKP sled-mounted extinguishers at the heli-pad
7. One Tanker, (3,500 gallon water tank) 750 GPM
8. Two Pumpers, (750 gallon water tank each) 1000 GPM

Navigation Aids

1. AN/URN-25 TACAN
2. AN/GRN-516 TACAN
3. CM-200UT UHF Single Channel ATC Ground-to-Air Radio Transmitter
4. CM-200VT VHF Single Channel ATC Ground-to-Air Radio Transmitter
5. Precision Approach Path Indicator (PAPI)
6. Precision Microwave Landing System (MLS)
7. Simplified Short Approach Lighting System (SSALR)

Palmer Station

Air Facilities

None. Open field landings on glacier possible

Crash Equipment

Three 150 lb. dry chemical unit (PKP)

Navigation Aids

None

Marble Point Camp

Air Facilities

One helicopter landing pad

Crash Equipment

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

Navigation Aids

None