

VIII. Transportation & Comms

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)	227
Carrier, Personnel and Cargo (tracked and wheeled)	52
Trailer, (tracked and wheeled)	39
Front-end loader, bucket and forklift	45
Forklift, warehouse	20
Motor toboggans	90
Crane	2
Road grader	4
Roller	4
Tractor, crawler	26
Tractor, wheeled	2
Sweeper, magnet	1
Snow plane	6
Truck, fire, pumper	8
Trencher	2
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	2
Personnel Carrier	5
Snow Plane	2
Tele-handler	1
Tractor Crawler	3
Trencher	1
Truck, light and heavy	2

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). The following projects are contemplated for the FY 2001-2002 season in Antarctica.

McMurdo Station

1. ATC Voice Switch installation and configuration will take place in Mac Ops, Mac Relay, Mac Center, and Raven Ops.
2. Relocate legacy VHF base radio infrastructure from old T-Site facility to the newly completed T-Site building.

3. Relocate NASA support equipment to new T-Site building.
4. Perform all antenna moves and upgrades, including cabling, at T-Site as part of the McMurdo HF modernization project.

South Pole Station

Testing of wireless LAN equipment operating in the 2.4 gigahertz range will take place.

Palmer Station

Satellite earth station installation will take place to provide phone and data connectivity on a full time basis.

Description of Airfields

McMurdo Station

Air Facilities

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

Crash 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. 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 Pumps, 750 gallons (H₂O), 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)

Amundsen-Scott South Pole Station

Air Facilities

1 x 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