APPENDIX 1. HELICOPTER DATA

1. INTRODUCTION. This appendix contains selected helicopter data needed by a heliport designer. These data represent the most critical weight, dimensional, or other data entry for that helicopter model, recognizing that specific versions of the model may weigh less, be smaller in some feature, carry fewer passengers, etc.

2. VERIFICATION. The published information has been verified by the various helicopter manufacturers and is current as of the date of publication. If more specific data is needed, contact the manufacturer(s) of the specific helicopter(s) of interest.

Table A1-1: Legend for Figure A1-1 and Table A1-2

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<td>Maximum takeoff weight in pounds.</td>
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<td>C</td>
<td>Overall length in feet. (Rotors at their maximum extension.)</td>
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<td>D</td>
<td>Overall height in feet. (Usually at tail rotor.)</td>
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<td>Rotor diameter in feet.</td>
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<td>Rotor plane clearance in feet.</td>
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<td>G</td>
<td>Distance from rotor hub to tip of tail rotor in feet.</td>
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<td>H</td>
<td>Tail rotor diameter (in feet)</td>
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<td>Tail rotor ground clearance in feet.</td>
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<td>Undercarriage length in feet.</td>
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<tr>
<td>L</td>
<td>Undercarriage width in feet. (The distance between the outside edges of the tires or the skids.)</td>
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<td>Number and type of engines</td>
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<td>Number of crew and passengers.</td>
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<td>O</td>
<td>Standard fuel capacity in gallons</td>
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Figure A1-1. Helicopter Dimensions
Table A1-2 Helicopter Dimensions

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APPENDIX 2. AVIATION ORGANIZATIONS

STATE AVIATION OFFICES

ALABAMA
Alabama Department of Transportation
Aeronautics Bureau
1409 Coliseum Blvd.
Montgomery, AL 36130
   Telephone: 334-242-6820
   FAX: 205-240-3274

ALASKA
Department of Transportation &
Public Facilities
P.O. Box 196900
Anchorage, AK 99519-6900
   Telephone: 907-269-0731
   FAX: 907-243-1512
   http://www.dot.state.ak.us/stwdav/stwdav.html#

ARIZONA
Division of Aeronautics
Arizona Department of Transportation
255 E. Osborn Road, Suite 101
Phoenix, AZ 85012
or
Mail Drop 426M
Phoenix, AZ 85002-3588
   Telephone: 602-294-9144
   FAX: 602-294-9141
   http://www.dot.state.az.us/Aero/index.htm

ARKANSAS
Department of Aeronautics
Regional Airport Terminal Building
No. 1 Airport Drive, 3rd Floor
Little Rock, AR 72202
   Telephone: 501-376-6781
   FAX: 501-378-0820
   http://www.ahtd.state.ar.us/

CALIFORNIA
Division of Aeronautics Program
Department of Transportation
1120 N. Street-Room 3300
P.O. Box 942874
Sacramento, CA 94274-0001
   Telephone: 916-654-4959
   FAX: 916-653-9531

CALIFORNIA (continued)
Postal Address:
Department of Transportation
Division of Aeronautics, MS # 40
P. O. Box 942874
Sacramento, CA 94274-0001

COLORADO
Division of Aeronautics
Colorado Department of Transportation
6848 South Revere Parkway, Suite 3-101
Englewood, CO 80112-6703
   Telephone: 303-397-3045
   FAX: 303-397-3042
   http://www.colorado-aeronautics.org/

CONNECTICUT
Bureau of Aviation and Ports
Connecticut Department of Transportation
2800 Berlin Turnpike
P.O. Box 317546
Newington, CT 06131-7546
   Telephone: 860-594-2529
   FAX: 860-594-2574
   http://www.ct.gov/dot/cwp/view.asp?a=1402&q=259246&dotPNavCtr=#40584

DELAWARE
Aeronautics Administration
Delaware Transportation Authority
Department of Transportation
P.O. Box 778
Dover, DE 19903
   Telephone: 302-739-3264
   FAX: 302-739-5711

FLORIDA
Aviation Office
Florida Department of Transportation
605 Suwannee Street
Mail Stop 46
Tallahassee, FL 32399-0450
   Telephone: 904-488-8444
   FAX: 904-487-3403
GEORGIA
Georgia Department of Transportation
Office of Intermodal Programs
276 Memorial Drive, SW
Atlanta, GA 30303-3743
Telephone: 404-651-9201
FAX: 404-651-5209

HAWAI'I
Airports Division
Hawaii Department of Transportation
Honolulu International Airport
Honolulu, HI 96819-1898
Telephone: 808-836-6542
FAX: 808-836-6441

IDAHO
Bureau of Aeronautics
Idaho Department of Transportation
3483 Rickenbacker Street
P.O. Box 7129
Boise, ID 83705
Telephone: 208-334-8786
FAX: 208-334-8789

ILLINOIS
Division of Aeronautics
Department of Transportation
Capital Airport - One Langhorne Bond Dr.
Springfield, IL 62707-8415
Telephone: 217-785-8544
FAX: 217-785-4533

INDIANA
Division of Aeronautics
Indiana Department of Transportation
143 West Market Street, Suite 300
Indianapolis, IN 46204
Telephone: 317-232-1496
FAX: 317-232-1499

IOWA
Office of Aeronautics
Air and Transit Division
Iowa Department of Transportation
International Airport
Des Moines, IA 50321
Telephone: 515-287-3315
FAX: 515-287-7731

KANSAS
Division of Aviation
Kansas Department of Transportation
Docking State Office Building
915 SW Harrison
Topeka, KS 66612-1568
Telephone: 913-296-2553
FAX: 913-296-7927

KENTUCKY
Office of Aeronautics
Kentucky Transportation Cabinet
421 Ann Street
Frankfort, KY 40622
Telephone: 502-564-4480
FAX: 502-564-7953

LOUISIANA
Aviation Division
Department of Transportation & Development
P.O. Box 94245
Baton Rouge, LA 70804-9245
Telephone: 504-379-1242
FAX: 504-379-1394

MAINE
Office of Passengers Transportation
Maine Department of Transportation
Augusta State Airport Station #16
Augusta, ME 04333
Telephone: 207-287-3318
FAX: 207-287-1030

MARYLAND
Maryland Aviation Administration
Maryland Department of Transportation
P.O. Box 8766
Baltimore/Washington Intl. Airport
MD 21240
Telephone: 410-859-7100
FAX: 410-850-4729

MASSACHUSETTS
Massachusetts Aeronautics Commission
10 Park Plaza, Room 6620
Boston, MA 02116-3966
Telephone: 617-973-8881
FAX: 617-973-8889
AC 150/5390-2B
Appendix 2

MICHIGAN
Bureau of Aeronautics
Department of Transportation
2nd Floor, Terminal Building
Capital City Airport
Lansing, MI 48906
   Telephone: 517-373-1834
   FAX: 517-886-0366

MINNESOTA
Aeronautics Office
Minnesota Department of Transportation
Transportation Building, Room 417
395 John Ireland Boulevard
St. Paul, MN 55155
   Telephone: 612-296-8202
   FAX: 612-297-5643

MISSISSIPPI
Mississippi Aeronautics Bureau
Department of Economic & Community Development
100 Airport Drive
Jackson, MS 39208
   Telephone: 601-354-6970
   FAX: 601-354-6969

MISSOURI
Department of Highways & Transportation
Aviation Section
P.O. Box 270
Jefferson City, MO 65102
   Telephone: 314-751-2589
   FAX: 314-751-6555

MONTANA
Aeronautics Division
Department of Transportation
P.O. Box 5178
Helena, MT 59604
   Telephone: 406-444-2506
   FAX: 406-444-2519

NEBRASKA
Nebraska Department of Aeronautics
P.O. Box 82088
Lincoln, NE 68501
   Telephone: 402-471-2371
   FAX: 402-471-2906

NEVADA
Nevada Department of Transportation
1263 South Stewart Street
Carson City, NV 89712
   Telephone: 775-888-7353
   FAX: 775-888-7207

NEW HAMPSHIRE
Division of Aeronautics
Municipal Airport
65 Airport Road
Concord, NH 03301-5298
   Telephone: 603-271-2551
   FAX: 603-271-1689

NEW JERSEY
Office of Aviation
New Jersey Department of Transportation
1035 Parkway Avenue CN 610
Trenton, NJ 08625
   Telephone 609-530-2900
   FAX 609-530-5719

NEW MEXICO
Aviation Division
State Highway and Transportation Department
P.O. Box 1149
Santa Fe, NM 87504-1149
   Telephone 505-827-0332
   FAX 505-827-0431

NEW YORK
Aviation Division
New York State Department of Transportation
1220 Washington Avenue
Albany, NY 12232
   Telephone 518-457-2821
   FAX 518-457-9779

NORTH CAROLINA
Division of Aviation
North Carolina Department of Transportation
P.O. Box 25201
Raleigh, NC 27611
   Telephone 919-840-0112
   FAX 919-840-0645

NORTH DAKOTA
North Dakota Aeronautics Commission
2301 University Drive
Box 5020
Bismarck, ND 58502
   Telephone 701-224-2748
   FAX 701-224-2780

OHIO
Ohio Department of Transportation
Division of Aviation
2829 West Dublin-Granville Road
Columbus, OH 43235
   Telephone 614-793-5040
   FAX 614 761-9609

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OKLAHOMA
Oklahoma Aeronautics and Space Commission
Department of Transportation Building
200 NE 21st Street, B-7 1st Floor
Oklahoma City OK 73105
Telephone 405-521-2377
FAX 405-521-2524

OREGON
Division of Aeronautics
Oregon Department of Transportation
3040 25th Street, SE
Salem, OR 97310
Telephone: 503-378-4880
FAX: 503-373-1688

PENNSYLVANIA
Bureau of Aviation
Pennsylvania Department of Transportation
208 Airport Drive
Harrisburg International Airport
Middletown, PA 17057
Telephone: 717-948-3915
FAX: 717-948-3527

PUERTO RICO
Puerto Rico Ports Authority
P.O. Box 362829
San Juan, PR 00936-2829
Telephone: 809-723-2260
FAX: 809-722-7867

RHODE ISLAND
Rhode Island Airport Corporation
Department of Airports
Theodore Francis Green State Airport
2000 Post Road
Warwick, RI 02886
Telephone: 401-737-4000
FAX: 401-732-4953

SOUTH CAROLINA
South Carolina Aeronautics Commission
P.O. Box 280068
Columbia, SC 29228-0068
Telephone: 803-822-5400
FAX: 803-822-8002

SOUTH DAKOTA
Office of Aeronautics
700 Broadway Avenue East
Pierre, SD 57501-2586
Telephone: 605-773-3574
FAX: 605-773-3921

TENNESSEE
Office of Aeronautics
Tennessee Department of Transportation
P.O. Box 17326
Nashville, TN 37217
Telephone: 615-741-3208
FAX: 615-741-4959

TEXAS
Texas Department of Transportation
Division of Aeronautics
P.O. Box 12607
Austin, TX 78711-2607
Telephone: 512-476-9262
FAX: 512-479-0294

UTAH
Aeronautical Operations Division
Utah Department of Transportation
135 North 2400 West
Salt Lake City, UT 84116
Telephone: 801-533-5057
FAX: 801-533-6048

VERMONT
Agency of Transportation
133 State Street
Montpelier, VT 05602
Telephone: 802-828-2657
FAX: 802-828-2024

VIRGINIA
Department of Aviation
4508 S. Laburnum Avenue
Richmond, VA 23231-2422
Telephone: 804-786-1364
FAX: 804-786-3690

WASHINGTON
Division of Aeronautics
Washington Department of Transportation
8600 Perimeter Road-Boeing Field
Seattle, WA 98108-3885
Telephone: 206-764-4131
FAX: 206-764-4001

WEST VIRGINIA
Department of Transportation
Building 5, Room A-109
West Virginia State Capital
Charleston, WV 25305
Telephone: 304-348-0444
FAX: 304-348-4076
WISCONSIN
Bureau of Aeronautics
Division of Transportation Assistance
Wisconsin Department of Transportation
P.O. Box 7914
Madison, WI 53707-7914
  Telephone: 608-266-3351
  FAX: 608-267-6748

WYOMING
Wyoming Department of Transportation
5300 Bishop Boulevard
P.O. box 1708
Cheyenne, WY 82002-9019
  Telephone: 307-777-4480
  FAX: 307-637-7352
Aviation Organizations/Associations

AIRPORT CONSULTANTS COUNCIL
908 King Street, Suite 100
Alexandria, VA 22314
Telephone: 703-683-5900
FAX: 703-683-2564
http://www.acconline.org/

AMERICAN HELICOPTER SOCIETY INTERNATIONAL
217 N. Washington St.
Alexandria, VA 22314-2538
Telephone: 703-684-6777
FAX: 703-739-9279
http://www.vtol.org/
Email: Staff@vtol.org

ASSOCIATION OF AIR MEDICAL SERVICES
526 King St., Suite 415
Alexandria, VA 22314-3134
Telephone: 703-836-8732
FAX: 703-836-8920
http://www.aams.org/

HELIKOPTER ASSOCIATION INTERNATIONAL
1635 Prince Street
Alexandria, VA 22314
Telephone: (703)683-4646
Fax: (703)683-4745
http://www.rotor.com/

HELIQUAPARTNER
1000 Washington Blvd.
Alexandria, VA 22314
Telephone: 703-683-4648
FAX: 703-683-4745
http://www.rotor.com/

HELIQUAPARTNER
1000 Washington Blvd.
Alexandria, VA 22314
Telephone: 703-683-4648
FAX: 703-683-4745
http://www.rotor.com/

HELICOPTER SAFETY ADVISORY CONFERENCE
c/o Casey Lowery
225 Aviation Road
Houma, LA 70363
Telephone: 985-223-6152
FAX: 985-872-5258
http://www.hsac.org/

NATIONAL ASSOCIATION OF STATE AVIATION OFFICIALS
101 Wayne Ave. Suite 930
Silver Spring, MD 20910
Telephone: 301-588-0587
FAX: 301-585-1803
http://www.nasao.org/

NATIONAL BUSINESS AIRCRAFT ASSOCIATION
1200 18th Street, Northwest, Suite 400
Washington, DC 20036-2527
Telephone: 202-783-9000
FAX: 202-331-8364
http://www.nbaa.org/

NATIONAL EMS PILOTS ASSOCIATION
526 King St., Suite 415
Alexandria, VA 22314-3134
Telephone: 703-836-8930
FAX: 703-836-8920
http://www.nemspa.org/
ALASKAN REGION
Alaskan Regional Office
(AK) Airports Division, AAL-600
222 West 7th Avenue, Box 14
Anchorage, AK 99513
Telephone: 907-271-5438
FAX: 907-271-2851

NEW ENGLAND REGION
(CT, MA, ME, NH, RI, VT)
New England Regional Office
Airports Division, ANE-600
12 New England Executive Park
Burlington, MA 01803-5299
Telephone: 781-238-7600
FAX: 781-238-7608

EASTERN REGION
(DC, DE, MD, NJ, NY, PA, VA, WV)
Eastern Regional Office
Airports Division, AEA-600
1 Aviation Plaza
Jamaica, NY 11434-4809
Telephone: 718-553-3341
FAX: 718-995-5615

SOUTHERN REGION
(AL, FL, GA, KY, NC, SC, TN, PR, VI)
Southern Regional Office
Airports Division, ASO-600
P.O. Box 20636
Atlanta, GA 30320-0631
Telephone: 404-305-6700
FAX: 404-305-6730

GREAT LAKES REGION
(IL, IN, MI, MN, ND, OH, SD, WI)
Great Lakes Regional Office
Airports Division, AGL-600
2300 East Devon Avenue
Des Plaines, IL 60018
Telephone: 847-294-7272
FAX: 847-294-7036

CENTRAL REGION
(IA, KS, MO, NE)
Central Regional Office
Airports Division, ACE-600
901 Locust
Kansas City, MO 64106-2325
Telephone: 816-329-2647
FAX: 816-329-2610

SOUTHWEST REGION
(AR, LA, NM, OK, TX)
Southwest Regional Office
Airports Division, ASW-600
2061 Meacham Boulevard
Fort Worth, Texas 76173-4298
Telephone: 817-222-5600
FAX: 817-222-5984

NORTHWEST MOUNTAIN REGION
(CO, ID, MT, OR, UT, WA, WY)
Northwest Regional Office
Airports Division, ANM-600
1601 Lind Avenue SW, Suite 315
Renton, Washington 98055-4056
Telephone: 425-227-2600
FAX: 425-227-1600

WESTERN-PACIFIC REGION
(AZ, CA, HI, NV, GU)
Western-Pacific Regional Office
Airports Division, AWP-600
P.O. Box 92007
Los Angeles, CA 90009
Telephone: 310-725-3600
FAX: 310-725-6847
Intentionally Left Blank
APPENDIX 3. DIMENSIONS FOR MARKING SIZE AND WEIGHT LIMITATIONS

Introduction. The form and proportion of numbers for marking TLOF and parking area size and weight limitations are shown below.

<table>
<thead>
<tr>
<th>Character</th>
<th>Height [cm]</th>
<th>Width [cm]</th>
<th>Vertical Stroke [cm]</th>
<th>Horizontal Stroke [cm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>12</td>
<td>10</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>13</td>
<td>10</td>
<td>7</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>16</td>
<td>13</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>23</td>
<td>13</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>24</td>
<td>10</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>5</td>
<td>12</td>
<td>5</td>
<td>12</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>23</td>
<td>13</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>23</td>
<td>5</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>8</td>
<td>16</td>
<td>5</td>
<td>13</td>
<td>5</td>
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<td>9</td>
<td>13</td>
<td>5</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: All characters shall have the following characteristics (unless otherwise specified):
- 36 in [91cm] high
- 18 in [46cm] wide
- Vertical stroke of 5 in [13cm]
- Horizontal stroke of 6 in [15cm]

Figure A3-1. Form and Proportions of 3 foot (0.9 m) Numbers for Marking Size and Weight Limitations
Note:
All characters shall have the following characteristics
(unless otherwise specified):
60 in [152 cm] high
30 in [76 cm] wide
vertical stroke of 8 in [20 cm]
horizontal stroke of 10 in [25 cm]

Figure A3-2. Form and Proportions of 5 foot (1.5 m) Numbers for Marking Size and Weight Limitations
APPENDIX 4. ASSOCIATED PUBLICATIONS


1. AC 00-2.14, Advisory Circular Checklist.

2. AC 20-35, Tie-Down Sense.

3. AC 70/7460-1, Obstruction Marking and Lighting.

4. AC 70/7460-2, Proposed Construction or Alteration of Objects that May Affect the Navigable Airspace.

5. AC 150/5000-3, Address List for Regional Airports Divisions and Airports District/Field Offices.

6. AC 150/5190-4, A Model Zoning Ordinance to Limit Height of Objects Around Airports.

7. AC 150/5200-30, Airport Winter Safety and Operations.


9. AC 150/5320-4, Aircraft Fuel Storage, Handling, and Dispensing on Airports.

10. AC 150/5320-6, Airport Pavement Design and Evaluation.

11. AC 150/5340-24, Runway and Taxiway Edge Lighting System.


14. AC 150/5345-12, Specification for Airport and Heliport Beacon.

15. AC 150/5345-27, Specification for Wind Cone Assemblies.


20. AC 150/5360-9, Planning and Design of Airport Terminal Facilities at Non-Hub Locations.

21. AC 150/5360-14, Access to Airports by Individuals with Disabilities.

22. AC 150/5370-10, Standards for Specifying Construction of Airports.

23. 14 CFR Part 135, Operating Requirements: Commuter and on demand operations and rules governing persons on board such aircraft.


30. 14 CFR Part 151, Federal Aid to Airports


33. FAA Order 1050.1 *Policies and Procedures for Considering Environmental Impacts*.

34. FAA Order 5050.4A, *Airport Environmental Handbook*.


38. FAA Standard 405, Standards for Aeronautical Surveys and Related Products.


40. NFPA Pamphlet 418, Standards for Heliports.


### APPENDIX 5. ACRONYMS

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC</td>
<td>advisory circular</td>
</tr>
<tr>
<td>AGL</td>
<td>above ground level</td>
</tr>
<tr>
<td>AIM</td>
<td>Aeronautical Information Manual</td>
</tr>
<tr>
<td>ATC</td>
<td>air traffic control</td>
</tr>
<tr>
<td>ATCT</td>
<td>air traffic control tower</td>
</tr>
<tr>
<td>AWOS</td>
<td>automated weather observing system</td>
</tr>
<tr>
<td>AZ</td>
<td>azimuth</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>dB</td>
<td>decibel</td>
</tr>
<tr>
<td>DH</td>
<td>decision height</td>
</tr>
<tr>
<td>DNL</td>
<td>Day/Night Average Sound Level</td>
</tr>
<tr>
<td>DWP</td>
<td>decision waypoint</td>
</tr>
<tr>
<td>E-L</td>
<td>electroluminescent</td>
</tr>
<tr>
<td>EMS</td>
<td>emergency medical service</td>
</tr>
<tr>
<td>EPNL</td>
<td>Effective Perceived Noise Level</td>
</tr>
<tr>
<td>FAA</td>
<td>Federal Aviation Administration</td>
</tr>
<tr>
<td>FAF</td>
<td>final approach fix</td>
</tr>
<tr>
<td>FARA</td>
<td>final approach reference area</td>
</tr>
<tr>
<td>FATO</td>
<td>final approach and takeoff area</td>
</tr>
<tr>
<td>FCC</td>
<td>Federal Communications Commission</td>
</tr>
<tr>
<td>FIG</td>
<td>figure</td>
</tr>
<tr>
<td>FTE</td>
<td>flight technical error</td>
</tr>
<tr>
<td>GA</td>
<td>General Aviation</td>
</tr>
<tr>
<td>GPI</td>
<td>glide path indicator</td>
</tr>
<tr>
<td>GPI</td>
<td>ground point of intercept</td>
</tr>
<tr>
<td>GPS</td>
<td>global positioning system</td>
</tr>
<tr>
<td>GVGI</td>
<td>generic visual glideslope indicator</td>
</tr>
<tr>
<td>H</td>
<td>height/velocity</td>
</tr>
<tr>
<td>H/L</td>
<td>heliport layout plan</td>
</tr>
<tr>
<td>HNM</td>
<td>Heliport Noise Model</td>
</tr>
<tr>
<td>HOGE</td>
<td>hover out-of-ground effect</td>
</tr>
<tr>
<td>IFR</td>
<td>instrument flight rules</td>
</tr>
<tr>
<td>IGE</td>
<td>in ground effect</td>
</tr>
<tr>
<td>IMC</td>
<td>instrument meteorological conditions</td>
</tr>
<tr>
<td>kg/m^2</td>
<td>kilograms per square meter</td>
</tr>
<tr>
<td>lbs</td>
<td>pounds</td>
</tr>
<tr>
<td>lb/ft^2</td>
<td>pound per square foot</td>
</tr>
<tr>
<td>LED</td>
<td>light emitting diode</td>
</tr>
<tr>
<td>m</td>
<td>meter</td>
</tr>
<tr>
<td>MAP</td>
<td>missed approach point</td>
</tr>
<tr>
<td>MAWP</td>
<td>missed approach waypoint</td>
</tr>
<tr>
<td>MDA</td>
<td>minimum descent altitude</td>
</tr>
<tr>
<td>MRI</td>
<td>magnetic resonance imager</td>
</tr>
<tr>
<td>MSL</td>
<td>mean sea level</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td>NAS</td>
<td>National Airspace System</td>
</tr>
<tr>
<td>NAVAID</td>
<td>navigational aid</td>
</tr>
<tr>
<td>NEPA</td>
<td>National Environmental Policy Act</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Association</td>
</tr>
<tr>
<td>nm</td>
<td>nautical mile</td>
</tr>
<tr>
<td>OGE</td>
<td>out of ground effect</td>
</tr>
<tr>
<td>OIS</td>
<td>obstacle identification surface</td>
</tr>
<tr>
<td>OL</td>
<td>overall length of the design helicopter</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PAPI</td>
<td>precision approach path indicator</td>
</tr>
<tr>
<td>PCC</td>
<td>Portland Cement Concrete</td>
</tr>
<tr>
<td>PLV</td>
<td>powered-lift vehicle</td>
</tr>
<tr>
<td>PPR</td>
<td>prior permission required</td>
</tr>
<tr>
<td>RD</td>
<td>rotor diameter of the design helicopter</td>
</tr>
<tr>
<td>sm</td>
<td>statute mile</td>
</tr>
<tr>
<td>STOL</td>
<td>short takeoff and landing</td>
</tr>
<tr>
<td>TERPS</td>
<td>terminal instrument procedures</td>
</tr>
<tr>
<td>TLOF</td>
<td>touchdown and liftoff area</td>
</tr>
<tr>
<td>TW</td>
<td>taxiway</td>
</tr>
<tr>
<td>UC</td>
<td>maximum undercarriage dimension of the design helicopter</td>
</tr>
<tr>
<td>UNICOM</td>
<td>frequencies authorized for aeronautical advisory services to private aircraft</td>
</tr>
<tr>
<td>USA</td>
<td>United States of America</td>
</tr>
<tr>
<td>VFR</td>
<td>visual flight rules</td>
</tr>
<tr>
<td>VFTE</td>
<td>vertical flight technical error</td>
</tr>
<tr>
<td>VGI</td>
<td>visual glideslope indicator</td>
</tr>
<tr>
<td>VMC</td>
<td>visual meteorological conditions</td>
</tr>
<tr>
<td>VSDA</td>
<td>visual segment descent angle</td>
</tr>
<tr>
<td>VSRL</td>
<td>visual segment reference line</td>
</tr>
<tr>
<td>VTOL</td>
<td>vertical takeoff and landing</td>
</tr>
</tbody>
</table>