CHAPTER EIGHT
REFERENCE DOCUMENTATION

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8.1 LIST OF ABBREVIATIONS AND ACRONYMS

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<td>LUST</td>
<td>Leaking Underground Storage Tank</td>
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<td>MALS</td>
<td>Medium Intensity Approach Lighting System</td>
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<td>Medium Intensity Approach Light System with Sequential Flashing Lights</td>
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<td>MALSRO</td>
<td>Medium Intensity Approach Light System with Runway Alignment Indicator Lights</td>
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<td>Million Cubic Yards</td>
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<td>mg/L</td>
<td>Milligrams per Liter</td>
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<tr>
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<td>NLR</td>
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<tr>
<td>nm</td>
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<tr>
<td>NO</td>
<td>Nitric Oxide</td>
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<td>NO₂</td>
<td>Nitrogen Dioxide</td>
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<td>Non-road Engine and Vehicle Emission Study</td>
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<td>Ozone</td>
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<td>Object Free Area</td>
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<td>PAMS</td>
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<tr>
<td>Pb</td>
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<td>PBL</td>
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<td>PCA</td>
<td>Pre-conditioned Air</td>
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<td>PCB</td>
<td>Polychlorinated Biphenyl</td>
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<td>PCPI</td>
<td>per capita personal income</td>
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<tr>
<td>PM</td>
<td>Particulate Matter</td>
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<tr>
<td>PM₁₀</td>
<td>Particulate Matter, 10 microns or smaller in diameter</td>
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<tr>
<td>PM₂₅</td>
<td>Particulate Matter, 2.5 microns or smaller in diameter</td>
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<td>PMAD</td>
<td>Peak month, average day</td>
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<td>Abbreviation</td>
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<td>ppm</td>
<td>Parts per million</td>
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<td>Runway deicing fluid</td>
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<td>Runway</td>
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<td>RPM</td>
<td>Revenue Passenger Miles</td>
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<td>RPZ</td>
<td>Runway Protection Zone (formerly called a clear zone)</td>
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<td>RT/R</td>
<td>Remote Transmitter/Receiver</td>
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<td>Runway Visual Range</td>
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<td>Superfund Amendments and Reauthorization Act</td>
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<td>Severe Acute Respiratory Syndrome</td>
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<td>Transportation Control Measure</td>
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<td>Total Maximum Daily Load</td>
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<td>TODA</td>
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<td>TORA</td>
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<td>tpy</td>
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<td>µg/m³</td>
<td>Micrograms per cubic meter</td>
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<td>Underground Storage Tank</td>
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<td>V/C</td>
<td>Volume to capacity</td>
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<td>Voluntary Airport Low Emission program</td>
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<td>vehicle-miles traveled</td>
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<td>Volatile Organic Compounds</td>
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<td>Very High Frequency (VHF) Omni-directional Range</td>
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<td>VORTAC</td>
<td>VHF Omni-directional Range with Tactical Air Navigation</td>
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<td>Widebody operations</td>
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<td>World Gateway Program</td>
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<td>Wildlife Hazard Management Plan</td>
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<td>Waste Management, Inc.</td>
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<td>WUS</td>
<td>Waters of the United States</td>
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### 8.2 GLOSSARY

**Ambient Temperature** – Temperature of the outside air, or air surrounding a given body.

**A-Weighted Sound (dBA)** – A system for measuring sound energy that is designed to represent response of the human ear to sound. Energy at frequencies more readily detected by the human ear is more heavily weighted in the measurement, while frequencies less well detected are assigned lower weights.
A-weighted sound measurements are commonly used in studies where the human response to sound is
the object of the analysis.

Adventive – Not native and not fully established organism; locally or temporarily neutralized.

Air Pollutant – A contaminant including any physical, chemical, biological, radioactive substance or
matter which is emitted into or otherwise enters the atmosphere. The term is also often used for any
precursors to the formation of any air pollutant.

Air Quality – The relative purity of the atmosphere. For regulatory purposes, the term typically applies
to the lower atmosphere below the mixing layer (approximately 3,000 feet above the ground).

Air Route Traffic Control Center (ARTCC or Center) – A FAA facility established to provide air traffic
control service to aircraft operating on Instrument Flight Rules (IFR) flight plans within controlled
airspace during the en route portion of flight.

Air Traffic Control (ATC) – A service operated to promote the safe, orderly, and expeditious flow of air
traffic.

Airman’s Information Manual (AIM) – A publication containing basic flight information and ATC
procedures, designed primarily as a pilot’s information and instructional manual for use in the National
Airspace System.

Airport Design Group (ADG) VI – A grouping of airplanes based on wingspan. An ADG of VI
represents an aircraft with a wing span between 214 feet and 262 feet.

Airport Elevation – The highest point on an airport’s usable runways, expressed in feet above mean sea
level (MSL).

Airport Improvement Program (AIP) – A Federal funding program for airport improvements. AIP is
periodically reauthorized by Congress with funding appropriated from the Aviation Trust Fund.
Proceeds to the Trust Fund are derived from excise taxes on airline tickets, aviation fuel, etc.

Airport Layout Plan (ALP) – A scaled drawing of existing and proposed land and facilities necessary for
the operation and development of the airport. The ALP shows boundaries and proposed additions to all
areas owned or controlled by the sponsor for airport purposes, the location and nature of existing and
proposed airport facilities and structures, and the location on the airport of existing and proposed non-
aviation areas and improvements thereon.

Airport Operations – Landings (arrivals) and takeoffs (departures) from an airport.

Airport Surveillance Radar (ASR) – A radar system which allows air traffic controllers to identify an
arriving or departing aircraft’s distance and direction from an airport.

Airport Traffic Control Tower (ATCT) – The air traffic control facility located on an airport that is
responsible for traffic separation within the immediate vicinity of the airport and on the surface of the
airport.

Airport Tower Order – An order that prescribes air traffic control procedures and phraseology for use by
personnel providing airport traffic control services for a specific air traffic control tower. Controllers are
required to be familiar with the provisions of this order that pertain to their operational responsibilities at
their tower. It is updated periodically as procedures are modified.

Airway – A corridor of controlled airspace whose centerline is established by radio navigational aids
(NAVAIDs). Low altitude airways [between 3,000 and 18,000 feet aboveground level (AGL)] are
identified by number with the letter V as a prefix. High altitude airways [above 18,000 feet mean sea level (MSL)] are known as Jet airways and are identified by number with the letter J as a prefix.

**Ambient Noise** – The total sum of noise from all sources in a given place and time.

**Annual Average Delay** – The average delay either for an arrival or departure based upon a years worth of delay data.

**Anthropogenic** – Of human origin or owing to human intervention.

**Apron** – Portion of an airport serving as an interface between the structure and the plane itself where passengers load and unload, also the area where a plane may turn around.

**Aquifer** – A subsurface layer of rock, sand, soil or gravel through which water can seep or pool.

**Attainment Area** – An area in which the Federal or state standards for ambient air quality are being achieved.

**Attenuation** – Acoustical phenomenon whereby a reduction of sound energy is experienced between the noise source and the receiver. This energy loss can be attributed to atmospheric conditions, terrain, vegetation, other natural features, and man-made features (e.g., sound insulation).

**Automated People Mover (APM)** – An automated vehicle that moves people horizontally over a short distance, also known as a horizontal elevator.

**Automated Radar Terminal System (ARTS)** – Computer-aided radar display subsystems capable of associating alphanumeric data – such as aircraft identification, altitude, and airspeed – with aircraft radar returns.

**Aviation System Performance Metrics (ASPM)** – A database that compares actual versus scheduled performance by the phase of flight. ASPM data contains actual and scheduled arrivals and departures by air carrier and airport. It also includes the actual acceptance and departure rates by airport.

**Azimuth** – An arc of the horizon measured between a fixed point (such as true north) and the vertical circle passing through the center of an object.

**Bank** – A cluster of aircraft arrivals or departures in a short period of time, characteristic of an airline hub operation.

**Baseline Condition** – The existing condition or conditions prior to future development, which serve as a foundation for analysis.

**Base Floodplain** – That area subject to a one percent or greater chance of flooding in any given year (i.e., the 100-year floodplain).

**Baseflow** – Dry weather component of streamflow, usually comprised of groundwater.

**Berm** – A ledge at the bottom of a bank that may serve to catch loose soil or stabilize the pile itself.

**Best Management Practices (BMP)** – Methods employed for ensuring environmental management to the greatest possible extent in the prevention of ground, air, and water contamination.

**Build Out** – The anticipated year (2013) that all components of the proposed action and other proposed projects are anticipated to be completed and operational.

**Build Out + 5** – Future year (2018) representing five years beyond the completion of all components of the proposed action and other proposed projects.
**Charter Operation** – A take-off or landing by an airline providing non-scheduled or supplemental carriage of passengers or cargo, or both, in air transportation. Charter airlines are required to be certificated in accordance with Federal Aviation Regulation (FAR) Part 121.

**Climbout** – That portion of flight operation between takeoff and the initial cruising altitude.

**Coastal barriers** – Bay barriers, barrier islands, and other geological features composed of sediment that protect landward aquatic habitats from direct wind and waves.

**Coastal Barrier Resources Act of 1982** – As amended, requires that no new Federal expenditures or financial assistance may be made available for construction within the boundaries of the Coastal Barriers Resource System, which consists of undeveloped coastal barriers along the Atlantic and Gulf coasts and the Great Lakes.

**Coastal zone** – Coastal waters and the adjacent shore lands, transitional and inter-tidal areas, salt marshes, wetlands and beaches. The zones also include waters of the Great Lakes within the territorial jurisdiction of the United States, their connecting water, harbors, roadsteads and estuary-type areas such as bays, shallows and marshes.

**Coastal Zone Management Act of 1972** – As amended, provides for the preservation, protection, development, and where feasible, restoration or enhancement of the resources of the nation’s coastal zone.

**Commuter Operation** – Commuters are commercial operators that provide regularly scheduled passenger or cargo service with aircraft seating less than 60 passengers. A typical commuter flight operates over a trip distance of less than 300 miles.

**Connecting Passenger** – An airline passenger who transfers from an arriving aircraft to a departing aircraft in order to reach his or her ultimate destination.

**Construction Impact Area** - This area is bound by the future Airport property boundary associated with any of the alternatives.

**Construction Phase I** – The anticipated year (2007) that the first major phase of the proposed action is anticipated to be completed and operational.

**Construction Phase II** – The anticipated year (2009) that the second major phase of development would become operational.

**Contact Gate** – Aircraft gates that allow passengers to board aircraft directly from the holdroom, via a boarding bridge, without being exposed to weather or being transported to the aircraft by vehicle.

**Controlled Airspace** – Airspace of defined dimensions within which air traffic control service is provided to IFR flights and to VFR flights in accordance with the airspace classification. Controlled airspace is designated as Class A, Class B, Class C, Class D, or Class E. Aircraft operators are subject to certain pilot qualifications, operating rules, and equipment requirements as specified in FAR Part 91, depending upon the class of airspace in which they are operating.

**Cumulative Impact** – Impact on the environment that results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency may be responsible for those actions.

**Day-Night Average Sound Level (DNL)** – A noise measure used to describe the average sound level over a 24-hour period, typically an average day over the course of a year. In computing DNL, an extra weight of 10 decibels is assigned to noise occurring between the hours of 10 p.m. and 7 a.m. to account for...
increased annoyance when ambient noise levels are lower and people are trying to sleep. DNL may be determined for individual locations or expressed in noise contours. DNL is currently the accepted measure for aircraft noise impact analysis.

- **Decibel (dB)** – Sound is measured by its pressure or energy in terms of decibels. The decibel scale is logarithmic. A 10-dB increase in sound is equal to a tenfold increase in sound energy.

- **Delay** – The difference between the scheduled time and actual time of an aircraft arrival or departure. For airport planning purposes, it is often expressed as an annual average delay per aircraft operation (in minutes).

- **de minimis** – Literal translation is “of minimal impact.” This term is often used when discussing air pollution levels. To be considered a de minimis source, emissions for the process or jobsite must not result in any significant contamination of the air.

- **Demographics** – The characteristics of a population, or segments of that population, that may assist in identifying unique characteristics or special needs of the group.

- **Direct Effect** – Effects caused by the action that occur at the same time and place.

- **Disaggregate** – To break something into its component parts.

- **Dispersion Analysis** – The examination of air pollutant concentrations at specific locations, based on modeling of the dispersion of emissions from their sources.

- **Displaced Threshold** – A threshold that is located at a point on the runway other than the designated beginning of the runway. The portion of pavement behind a displaced threshold may be available for takeoffs in either direction and landings from the opposite direction.

- **Dissolved Oxygen (DO)** – The oxygen freely available in water, vital to fish and other aquatic life and for the prevention of odors. DO levels are considered an important indicator of a water body’s ability to support desirable aquatic life.

- **Department of Transportation (DOT) Section 4(f) Resources** – Areas such as public parks, recreational lands, wildlife and waterfowl refuges of Federal, State, or local significance, as well as any land from a historic site of Federal, State, or local significance.

- **Distance Measuring Equipment (DME)** – A flight instrument which measures the line-of-sight distance of an aircraft from a navigational radio station in nautical miles.

- **Econometric** – A method of analyzing data and testing theories that results from the application of mathematics and statistics to economics.

- **Ecoregion** – An area that has a similar ecosystem throughout. Similarity is often based on the type, quality, and quantity of natural resources found within the given area.

- **Emissions** – Substances discharged into the air through combustion or biological or chemical reaction.

- **Emissions Dispersion Modeling System (EDMS)** – A complex source microcomputer model designed by the Federal Aviation Administration (FAA) and U.S. Air Force (USAF) to assess the air quality impacts of proposed airport development projects. This model is mandated by the FAA and approved by the U.S. Environmental Protection Agency (USEPA) for all airport environmental studies. EDMS features the latest aircraft engine emission factors from the International Civil Aviation Organization (ICAO) Engine Exhaust Emissions Data Bank, vehicle emission factors from the USEPA’s MOBILE5a, and USEPA-validated dispersion models.
**Endangered** – An entire species that is in danger of extinction.

**Enplanements** – The number of passengers boarding an aircraft at an airport. Does not include arriving or through passengers.

**Enroute System** – That part of the National Airspace System where aircraft are operating between origin and destination airports.

**En Route Control** – The control of IFR traffic en route between two or more adjacent approach control facilities.

**Environmental Assessment (EA)** – A concise document that assesses the environmental impacts of a proposed Federal Action. It discusses the need for, and environmental impacts of, the proposed action and alternatives. An EA should provide sufficient evidence and analysis for a Federal determination whether to prepare an Environmental Impact Statement (EIS) or a Finding of No Significant Impact (FONSI). Public participation and consultation with other Federal, state, and local agencies is a cornerstone of the EA process.

**Environmental Impact Statement (EIS)** – An EIS is a document that provides a discussion of the significant environmental impacts which would occur as a result of a proposed project, and informs decision-makers and the public of the reasonable alternatives which would avoid or minimize adverse impacts. Public participation and consultation with other Federal, state, and local agencies is a cornerstone of the EIS process.

**Equivalent Sound Level (Leq)** – The average A-weighted sound level over any specified time period.

**Expanded Project Areas** – Various expanded project areas depending on the specific resource category that is being assessed. These expanded project areas primarily relate to surface transportation, air quality and socioeconomic impacts.

**Expected Departure Clearance Time (EDCT)** – The runway release time assigned to an aircraft in a ground delay program.

**Facultative** – Able to exist under more than one set of conditions.

**Federal Aviation Administration (FAA)** – The FAA is the Federal agency responsible for insuring the safe and efficient use of the Nation’s airspace, for fostering civil aeronautics and air commerce, and for supporting the requirements of national defense. The activities required to carry out these responsibilities include: safety regulations; airspace management and the establishment, operation, and maintenance of a system of air traffic control and navigation facilities; research and development in support of the fostering of a national system of airports, promulgation of standards and specifications for civil airports, and administration of Federal grants-in-aid for developing public airports; various joint and cooperative activities with the Department of Defense; and technical assistance (under State Department auspices) to other countries.

**Federal Aviation Regulations (FAR)** – The body of Federal regulations relating to aviation; published as Title 14 of the Code of Federal Regulations.

**Finding of No Significant Impact (FONSI)** – If, following the preparation of an EA, the Federal Agency determines a proposed project will not result in any significant environmental impact, a finding of no significant impact (FONSI) is issued by the Federal Agency. A FONSI is a document briefly explaining the reasons why an action will not have a significant effect on the human environment and for which an EIS, therefore, is not necessary.
Flight Schedule Delay – This is the difference in arrival and departure times between the Proposed Projects and No Action Design Day Flight Schedules and is calculated prior to simulation modeling. This time represents additional time (delay) expected by arrival and departure aircraft due to lack of gate availability at O’Hare. This delay is not captured as aircraft operational delay in the delay statistics reported from the airside simulation modeling.

Flight Track Utilization – The use of established routes for arrival and departure by aircraft to and from the runways at the airport.

Floodplain – The lowland and relatively flat areas adjoining inland and coastal waters, including flood-prone areas of offshore islands, including at a minimum, that area subject to a one percent or greater chance of flooding in any given year.

Floodway – Channel of a river or other watercourse and adjacent land areas that convey flood waters.

Glacial Till – An accumulated mixture of sand, clay, silt, and gravel.

Glide Slope (GS) – Provides vertical guidance for aircraft during approach and landing. The glide slope consists of the following: Electronic components emitting signals which provide vertical guidance by reference to airborne instruments during instrument approaches such as Instrument Landing System (ILS), or Visual ground aids, such as Visual Approach Slope Indicator (VASI), which provide vertical guidance for Visual Flight Rules (VFR) approach or for the visual portion of an instrument approach and landing.

Global Positioning System (GPS) – A system of 24 satellites used as reference points to enable navigators equipped with GPS receivers to determine their latitude, longitude, and altitude. The accuracy of the system can be further refined by using a ground receiver at a known location to calculate the error in the satellite range data. This is known as Differential GPS (DGPS).

Grid Analysis – A type of aircraft noise analysis which evaluates the noise levels at individual points rather than through generation of noise contours.

Ground Effect – Noise attenuation attributed to absorption or reflection of noise by man-made or natural features on the ground surface.

Ground Support Equipment (GSE) – A full range of vehicles that service aircraft while parked at the gate, including fuel pump trucks; baggage tugs, carts and conveyors; lavatory service trucks; catering trucks; aircraft pushback vehicles; de-icing vehicles; and maintenance support vehicles.

Habitat – The environment occupied by individuals of a particular species, population, or community.

Herbaceous Wetlands – Areas often referred to as “marshes” or “swamps,” these are wetlands that contain soft, green plant material.

Hub – An airport that services airlines that have hubbing operations.

Hubbing – A method of airline scheduling that times the arrival and departure of several aircraft in a close period of time at an airport in order to allow the transfer of passengers between different flights of the same airline in order to reach their ultimate destination. Several airlines may conduct hubbing operations at an airport.

Hydric Soils – Soils that are saturated, flooded, or ponded long enough during the growing season to allow anaerobic conditions to develop.

Hydrologic Cycle – Movement or exchange of water between the atmosphere and the earth.
Hydrology – The science of dealing with the properties, distribution, and circulation of water.

Hydrophytic – Refers to the sum total of macrophytic (observable) plant life growing in water or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content.

Impervious Surfaces – Those surfaces through which water cannot penetrate.

Infill – Urban development occurring on vacant lots in substantially developed areas. May also include the redevelopment of areas to a greater density.

Inaugural Airport Program (IAP) – Five-year development program proposed by the state of Illinois to construct and operate an air carrier airport at the South Suburban Airport site in eastern Will County.

Interpolate – To estimate an unknown value or data point between two known values or data points.

Instrument Approach – A series of predetermined maneuvers for the orderly transfer of an aircraft under instrument flight conditions from the beginning of the initial approach to a landing, or to a point from which a landing may be made visually.

Instrument Flight Rules (IFR) – That portion of the Federal Aviation Regulations (14 CFR 91) specifying the procedures to be used by aircraft during flight in Instrument Meteorological Conditions. These procedures may also be used under visual conditions and provide for positive control by ATC. (See also VFR).

Instrument Landing System (ILS) – An electronic system installed at some airports which helps to guide pilots to runways for landing during periods of limited visibility or adverse weather.

Instrument Meteorological Conditions (IMC) – Weather conditions expressed in terms of visibility, distance from clouds, and cloud ceilings during which all aircraft are required to operate using IFR.

Integrated Noise Model (INM) – A computer model developed, updated and maintained by the FAA to predict the noise exposure generated by aircraft operations at an airport.

Kilowatt Hour (kWh) – A unit or measure of electricity supply or consumption of 1,000 Watts over the period of one hour; equivalent to 3,412 British thermal units (Btu).

Knots – Airspeed measured as the distance in nautical miles (6,076.1 feet) covered in one hour. (Approximately equal to 1.15 miles per hour.)

Land and Hold Short Operations (LAHSO) – An air traffic control procedure intended to increase overall airport capacity without compromising safety. LAHSO include landing and holding short of an intersecting runway, taxiway, or some other designated point on a runway or taxiway.

Land Use Compatibility – The ability of land uses surrounding the airport to coexist with airport-related activities with minimum conflict.

Landing and Takeoff (LTO) Cycle – The time that an aircraft is in operation at or near an airport. An LTO cycle begins when an aircraft starts its final approach (arrival) and ends after the aircraft has made its climb-out (departure).

Ldn – See DNL. Ldn is used in place of DNL in mathematical equations only.

Leach – Term often used to describe the movement of contaminants through soil; to permeate or slowly percolate through the soil.

Leq – Equivalent Sound Level. The steady A-weighted sound level over any specified period of time (not necessarily 24 hours) that has the same acoustic energy as the fluctuating noise during that period (with no consideration of a nighttime weighting). It is a measure of cumulative acoustical energy. Because the
time interval may vary, it should be specified by a subscript (such as Leq₈ for an eight-hour exposure to noise) or be clearly understood from the context.

**Level of Service (LOS)** – Qualitative measures that characterize operational conditions within a road traffic stream and their perception by motorists and passengers. They are given letter designations, from A to F, with A representing the best operating conditions and F the worst.

**Local Passenger** – A passenger who either starts or ends travel in a metropolitan area on flights serviced by the area’s airport. A local passenger is the opposite of a connecting passenger.

**Localizer** – The component of an ILS which provides lateral course guidance to the runway.

**Loess** – deposits of silt that have been laid down by wind action

**Loudness** – The subjective assessment of the intensity of sound.

**Macrophyte** – A member of the macroscopic plant life especially of a body of water.

**Macroscopic Organisms** – Organisms big enough to be seen by the eye without the aid of a microscope.

**Maintenance Area** – An area formerly classified as non-attainment which has been redesignated as an attainment area.

**Mean Sea Level (MSL)** – The average height of the surface of the sea for all stages of the tide; used as a reference for elevations. Also called sea level datum.

**Medium Intensity Approach Lighting System (MALSR)** – consists of a series of lights spaced about 200 feet apart on standards that alight with the runway centerline and extend a total of 2,400 feet from the runway threshold. Nine light bars with white lights comprise the MALSR, with five sequenced flashing lights at the outer portion of the lights

**Micron** – One millionth (10⁻⁶) of a meter.

**Migratory Bird Treaty Act (MBTA)** – Makes it illegal to pursue, hunt, take, capture, kill, attempt to take, capture or kill any migratory bird or “any part, nest, or egg of any such bird...by any means or in any manner,” except as allowed by permit.

**Missed Approach** – A prescribed procedure to be followed by aircraft that cannot complete an attempted landing at an airport.

**Mitigation** – Action taken to eliminate or reduce the long-term risk to human life, property, or function from hazards associated with a project.

**Mixing Height** – The height of the completely mixed portion of atmosphere that begins at the earth’s surface and extends to a few thousand feet overhead where the atmosphere becomes fairly stable. See also "Inversion."

**Mixing Layer** – See "Mixing Height."

**Narrow-body Aircraft** – A commercial passenger jet having a single aisle and maximum of three seats on each side of the aisle. Common narrow-body aircraft include A320, B717, B727, B737, B757, DC9, MD80, and MD90.

**National Airspace Redesign (NAR)** – An initiative to review, redesign, and restructure the nation’s airspace to meet the speedily changing and increasing operational demands on the National Airspace System.
**National Airspace System (NAS)** – The common network of U.S. airspace; air navigation facilities, equipment, services, airports, or landing areas; aeronautical charts, information, and services; rules, regulations, and procedures; technical information, manpower, and materials, all of which are used in aerial navigation.

**National Ambient Air Quality Standards (NAAQS)** – The United States Environmental Protection Agency (USEPA) established numerical air quality concentration standards under the Clean Air Act for six criteria pollutants [ozone (O₃), carbon monoxide (CO), particulate matter (PM), sulfur dioxide (SO₂), nitrogen dioxide (NO₂), and leads (Pb)] that are to be applied uniformly throughout the United States. The National primary ambient air quality standards are intended to protect public health. Secondary standards are established to protect the public health. Secondary standards are established to protect the public welfare from effects such as crop damage, threats to wildlife and building deterioration.

**National Coastal Management Program** – A federal-state partnership focused on management of the nation’s coastal resources, ensuring their protection while balancing competing national economic, cultural and environmental interests.

**National Environmental Policy Act of 1969 (NEPA)** – The original legislation establishing the environmental review process for proposed Federal Actions.

**National Plan of Integrated Airport Systems (NPIAS)** – A system that identifies airports that are significant to the national air transportation system. These airports are eligible to receive Federal under the Airport Improvement Program.

**Nationwide Rivers Inventory** – A listing of free-flowing rivers (or river segments), which based on preliminary studies, are considered to meet eligibility criteria for the National System.

**Natural Areas Rating Index (NARI)** – A method of assessing plant communities which assigns each plant species a numerical rating that reflects the fundamental need the particular plant species exhibits for its natural habitat. Thus, a native species that exhibits specific adaptations to a narrow range of habitat conditions is given a high rating. Conversely, a non-native ubiquitous plant species that exhibits adaptations to a broad range of environmental variables is assigned a low rating.

**Nautical Mile** – A measure of distance, equal to one minute of arc on the earth’s surface (equal to 6,076.1 feet or 1,852 meters).

**NAVAIDs (Navigational Aids)** – Any facility used by an aircraft for navigation.

**New Large Aircraft (NLA)** – Group VI Aircraft – aircraft with wingspan from 214 feet up to but not including, 262 feet.

**Nitrogen, Ammonia (AN)** – The compound nitrogen in the form of ammonia.

**Noise Abatement** – A measure or action that minimizes the amount of impact of noise on the environs of an airport. Noise abatement measures include aircraft operating procedures and use or disuse of certain runways or flight tracks.

**Noise Berm** – A manmade soil structure designed to interrupt the direct transmission of noise from a source to a noise-sensitive area.

**Noise Contour Map** – A map representing average annual noise levels summarized by lines connecting points of equal noise exposure.

**Non-attainment Area** – An area in which the Federal or state standards for ambient air quality have been exceeded and have not demonstrated a sufficient period of compliance to reach attainment status.
**Nondirectional Beacon (NDB)** – A beacon transmitting nondirectional signals whereby the pilot of an aircraft equipped with direction finding equipment can determine his bearing to and from the station. When the radio beacon is installed in conjunction with the ILS marker, it is normally called a Compass Locator.

**Nonprecision Approach** – A standard instrument approach procedure providing runway alignment but no glide slope or descent information.

**Notice of Intent (NOI)** – The official written notification to the public of the proposed action to be studied, which is published in the Federal Register. It contains a brief project description, date, time, and location of the public meeting, if one is to be held.

**One-hundred Year Floodplain** – The area encompassed by a flood that has a one-percent or greater chance of being equaled or exceeded in any given year.

**Operation** – A takeoff or landing by an aircraft.

**Operational Evolution Plan (OEP)** – A continuing program developed by the FAA to increase the capacity and efficiency of the National Airspace System. The program is also designed to provide enhancements to safety and security within the airspace system. The program reflects a partnership between the aviation community, the Department of Defense (DoD), the National Weather Service, and the National Aeronautics and Space Administration (NASA).

**Origin and Destination Passengers** – Origin and destination passengers are passengers who begin or end their trip in the subject city (i.e., in this case Chicago). This includes those who live here and are traveling to other destinations, and those who live elsewhere but are traveling to Chicago. The term is distinguished from connecting passengers, who are flying into and out of Chicago only in order to travel between two other cities.

**Outer Fix** – An air traffic control term for a point in the airspace from which aircraft are normally cleared to the approach fix or final approach course.

**Overbank Flooding** – Any situation in which inundation occurs as a result of the water level of a stream rising above the bank level.

**Palustrine** – Living or thriving in a marshy environment; being or made up of marsh.

**Pedologic/Pedology** – Soil origin, character, and utilization.

**pH** – System of measuring the acidity or alkalinity of a substance; refers to the negative logarithm of the hydrogen ion content of the solution.

**Ponded** – A condition in which water stands in a closed depression. Only percolation, evaporation, and/or transpiration may remove ponded water.

**Poorly Drained** – Soils that commonly are wet at or near the surface during a sufficient part of the year that field crops cannot be grown under natural conditions. Poorly drained conditions are caused by a saturated zone, a layer with low hydraulic conductivity, seepage, or a combination of these conditions.

**Positive Control** – The separation of all air traffic within designated airspace as directed by air traffic controllers.

**Precision Approach Procedure** – A standard instrument approach procedure in which an electronic glideslope/glidepath is provided [e.g., ILS and Precision Approach Radar (PAR)].
Primary Commercial Service Airport – A commercial airport which enplanes 0.01 percent or more of the total annual U.S. enplanements.

Primary Runway – the runway on which the majority of operations take place. At large, busy airports, there may be two or more parallel primary runways.

Profile – The physical position of the aircraft during an approach or departure in terms of altitude above the runway and distance from the runway end.

Project Area - This area includes portions of 18 communities surrounding O’Hare in which aircraft noise exposure has the potential to reach FAA levels of significance. These 18 communities, or portions thereof, include: Addison, Arlington Heights, Bensenville, Chicago, Des Plaines, Elk Grove Village, Elmhurst, Franklin Park, Harwood Heights, Itasca, Mount Prospect, Norridge, Northlake, Park Ridge, Rolling Meadows, Rosemont, Schiller Park, Wood Dale, and portions of unincorporated Cook and DuPage counties.

Public Use Airport – An airport open to public use without prior permission, and without restrictions within the physical capabilities of the facility. It may or may not be publicly owned.

Rate-of-Progress Plan (ROPP) – A special form of a State Implementation Plan (SIP) aimed at gradually reducing the level of volatile organic compounds emitted in an area classified as non-attainment.

Reducing Soil Conditions – A soil environment that is conducive to removal of oxygen and chemical reduction of ions.

Regional Jets – generally defined as jet aircraft with fewer than 100 seats. The FAA and General Accounting Office (GAO), as well as the aviation industry, use differing levels of detail in defining RJs depending on the context.

Reliever Airport – An airport which, when certain criteria are met, relieves the aeronautical demand on a busier air carrier airport.

Remote Aircraft Parking Position – Remote aircraft parking refers to when an aircraft parks away from the terminal and may or may not be used to load and unload passengers. In order for an aircraft gate to be considered remote, it cannot be located on the apron directly adjacent to the terminal, and the aircraft cannot have contact with the terminal via a loading bridge. Passengers are expected to either walk or take a shuttle to and/or from the terminal building.

Run-Up – A routine procedure for testing an aircraft engine at a high power setting. Engine run-ups are normally conducted by airline maintenance personnel checking an engine or other on board systems following maintenance.

Runway Protection Zone (RPZ) – An area, trapezoidal in shape and centered about the extended runway centerline, designated to enhance the safety of aircraft operations. It begins 200 feet (60 meters) beyond the end of the area usable for takeoff or landing. The RPZ dimensions are functions of the aircraft, type of operation and visibility minimums. (Formerly known as the clear zone).

Runway Safety Area (RSA) – A defined surface surrounding the runway prepared or suitable for reducing the risk or damage to airplanes in the event of an undershoot, overshoot, or excursion from the runway.

Scoping – The beginning of the public involvement and agency coordination process for an EA or EIS project. The public and agency representatives are invited to attend an informational meeting, which includes detailed information as to the nature and breadth of the project. This is the first opportunity for
the public and agencies to meet with the sponsor's of the project and to voice their questions and concerns about the proposed action.

Socioeconomic – Of or related to both the social and economic portions of an issue.

Soil – Unconsolidated mineral and organic material that supports, or is capable of supporting, plants, and which has recognizable properties due to the integrated effect of climate and living matter acting upon parent material, as conditioned by relief over time.

Sound – Sound is the result of vibration in the air. The vibration produces alternating bands of relatively dense and sparse particles of air, spreading outward from the source in the same way as ripples do on water after a stone is thrown into it. The result of the movement is fluctuation in the normal atmospheric pressure or sound waves.

Sound Exposure Level (SEL) – A standardized measure of a single sound event, expressed in decibels, that takes into account both loudness and duration. By definition, SEL values are referenced to a duration of one second and should not be confused with the maximum sound level ($L_{max}$) associated with a specific event. The SEL value for a typical aircraft noise event is normally five to ten decibels higher than the $L_{max}$.

Special Use Airspace – Airspace of defined dimensions identified by an area on the earth’s surface wherein activities must be confined because of their nature and/or wherein limitations may be imposed upon aircraft operations which are not part of those activities.

Spoke Carrier – A domestic airline with scheduled service that primarily provides service back to their hub airports. At O'Hare, the spoke carriers include all the domestic carriers offering scheduled service at O'Hare other than United and American Airlines (i.e. Delta, Northwest, America West, Continental, USAirways, TWA).

Stage 2 Aircraft – Aircraft that meet the noise levels prescribed by FAR Part 36 which are less stringent than those established for the quieter designation (Stage 3). The Airport Noise and Capacity Act required the phase-out of all Stage 2 aircraft over 75,000 pounds by December 31, 1999, with the potential for case-by-case exceptions through the year 2003.

Stage 3 Aircraft – Aircraft that meet the most stringent noise levels set in FAR Part 36.

Standard Instrument Departure Procedure (SID) – A planned IFR air traffic control departure procedure published for pilot use in graphic and/or textual form. SIDs provide transition from the terminal to the en route air control structure.

Standard Terminal Arrival Route (STAR) – A planned IFR air traffic control arrival procedure published for pilot use in graphic and/or textual form. STARs provide transition from the en route air traffic structure to an outer fix or an instrument approach fix in the terminal area.

Star Alliance – A network currently consisting of fifteen airlines that gives their passengers the ability to travel throughout the world with simplicity.

Statute Mile – A measure of distance equal to 5,280 feet.

Surface Movement Advisor (SMA) – Surface Movement Advisor (SMA) provides aircraft arrival information to airline ramp towers to assist airlines in better managing ground assets. It has been developed to provide automated data to improve coordination and planning of ground airport traffic operations and to achieve the following goals: provide gate resource optimization, balance taxi departure loads, reduce voice radio traffic, improve gate rescheduling, and improve crew scheduling.
Sustainable Development – “Development that meets the needs of the present generation without compromising the needs of future generations,” (as defined by the U.N. World Commission on Environment and Development, 1983).

Tactical Air Navigation (TACAN) – A navigational system used by the military. TACAN provides both azimuth and distance information to a receiver on board an aircraft.

Terminal Area Forecast (TAF) – The FAA revises its TAF for each of the nation’s airports annually using national trends and local economic factors to reflect the dynamic nature of the national airspace system. The TAF projects enplanements and aircraft operations for each U.S. airport. The FAA uses these forecasts to make investment and budget decisions about air traffic control staffing, equipment and technology. The TAF forecasts are unconstrained forecasts. This means that the forecasts reflect projected demand without regard to airside or landside capacity limitations or regulatory constraints such as the High Density Rule.

Terminal Radar Approach Control (TRACON) – An FAA Air Traffic Control Facility which uses radar and two-way communication to provide separation of air traffic within a specified geographic area in the vicinity of one or more airports.

Therm – A common measure of natural gas volume. One therm = 100,000 British thermal units (Btu).

Threatened – Surviving populations of a species are so small that the species could become extinct without protection.

Threshold – The beginning of that portion of the runway usable for landing.

Time Above (TA) – The amount of time that sound exceeds a given decibel level during a 24-hour period (e.g., time in minutes that the sound level is above 75 dB (A)).

Topography – Graphic representation, often a map, of the surface features or elevations of a region.

Total Dissolved Solids (TDS) – A measure of inorganic and organic material dissolved in water (passing through a 0.45 micron filter); expressed as mg/L.

Toxic Substances – Substances in concentrations that would be toxic or harmful to human health or to animal, plant, or aquatic life.

Training Fire – A deliberately set fire in a controlled environment designed to provide emergency personnel the ability to train with minimum risk of injury.

Unclassifiable – An area that lacks adequate data to form a basis of attainment or non-attainment status.

Vector – Compass heading instructions issued by ATC in providing navigational guidance by radar.

Very High Frequency Omnidirectional Range (VOR) Station – A ground-based radio navigation aid transmitting signals in all directions. A VOR provides azimuth guidance to pilots by reception of electronic signals.

Visual Approach – An approach conducted on an IFR flight plan which authorizes the pilot to proceed visually and clear of clouds to the airport.

Visual Flight Rules (VFR) – Rules and procedures specified in 14 CFR 91 for aircraft operations under visual conditions. Aircraft operations under VFR are not generally under positive control by ATC. The term VFR is also used in the United States to indicate weather conditions that are equal to or greater than minimum VFR requirements. In addition, it is used by pilots and controllers to indicate a type of flight plan.
**Visual Meteorological Conditions (VMC)** – Weather conditions expressed in terms of visibility, distance from cloud, and cloud ceiling equal to or greater than those specified in 14 CFR 91.155 for aircraft operations under Visual Flight Rules (VFR).

**Volatile Organic Compound** – A compounds that have a high vapor pressure and low water solubility. Many of these compounds derive from industrial solvents or are components of petroleum fuels. They are common ground water contaminants.

**VORTAC** – Very High Frequency Omnidirectional Range with Tactical Air Navigation. A navigational aid providing VOR azimuth and TACAN distance measuring equipment (DME) at one site.

**Waters of the United States (Jurisdictional Waters)** – As defined in 40 CFR 122.2: 1) All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all water which are subject to the ebb and flow of the tide; 2) All interstate waters, including interstate wetlands; 3) All other waters such as interstate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters: a) which are or could be used by interstate or foreign travelers for recreational or other purposes, b) from which fish or shellfish are or could be taken and sold in interstate or foreign commerce, and c) which are used or could be used for industrial purposes by industries in interstate commerce; 4) All impoundments or waters otherwise defined as Waters of the United States under this definition; 5) Tributaries of waters identified in the definition; 6) The territorial sea; and 7) wetlands adjacent to waters (other than waters that are themselves wetlands) identified in this definition.

**Watershed** – Area of land where all water, whether on the surface or present as groundwater, drains to the same place.

**Water Table** – The upper surface of ground water or that level below which the soil is saturated with water.

**Wetlands** – Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

**Wide-Body Aircraft** – A commercial jet with a wingspan generally greater than 155 feet and, in passenger configuration, having two aisles with 8 to 11 seats across in a row. Common wide-body aircraft include the A300, A310, B747, B767, B777, DC-10, and MD-11.

### 8.3 ENVIRONMENTAL LAWS AND REGULATIONS

#### 8.3.1 Federal Statutes

Airport and Airway Improvement Act, 49 U.S.C. 47101 et seq., as amended by PL 103-305

Airport Development Grant Program, 49 U.S.C. 47101 et seq.


Airline Deregulation Act of 1978 (ADA), Public Law 95-504


Aviation Safety and Noise Abatement Act, 49 U.S.C. 47501-47507 as amended
Clean Air Act of 1970, 42 U.S.C. §7401
1977 Clean Air Act Amendments, 42 U.S.C. §7401
1990 Clean Air Act Amendments, 42 U.S.C. §7401
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986, 42 U.S.C. §103
Control and Abatement of Aircraft Noise and Sonic Boom Act of 1968
Department of Transportation Act of 1966, 49 U.S.C. §102 and §303
Federal Aviation Act of 1958, 49 U.S.C. 40101 et seq., as amended by Public Law (PL) 103-305, in 1994
Magnuson-Stevens Fishery Conservation and Management Act (Magnuson-Stevens Act), Public Law 94-265
Noise Control Act of 1972, 49 U.S.C. 44715
Pollution Prevention Act of 1990
1986 Safe Drinking Water Act Amendments, 43 U.S.C. §300f
Surplus Property Act of 1944, 49 U.S.C. §47151
Section 4(f) (recoded as Section 303) of the Department of Transportation Act, 49 U.S.C. §303
Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970
Wendell H. Ford Aviation Investment and Reform Act for the 21st Century (Air 21), Public Law 106-181
Wild and Scenic Rivers Act, 16 U.S.C. §1271
8.3.2 Federal Regulations

14 CFR Part 161, Notice and Approval of Airport Noise and Access Restrictions


40 CFR 61, National Emissions Standards for Hazardous Air Pollutants

40 CFR Part 280, Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks (USTs)

40 CFR 763, Asbestos

49 CFR Part 24, Uniform Relocation Assistance and Real Property Acquisition for Federal and Federally Assisted Programs

49 CFR Parts 171-173, 177, Hazardous Materials Transportation Act

FAR 14, CFR Part 150, Airport Noise Compatibility Planning

8.3.3 Executive Orders

Executive Order 11990 – Protection of Wetlands

Executive Order 11988 – Floodplain Management

Executive Order 12088 – Federal Compliance with Pollution Control Standards

Executive Order 12580 – Superfund Implementation, as amended by Executive Orders 12777 and 13016

Executive Order 12856 – Federal Compliance with Right-to-Know Laws and Pollution Prevention Requirements

Executive Order 12898 – Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations

Executive Order 13045 – Protection of Children from Environmental Health Risks and Safety Risks

Executive Order 13123 – Greening the Government through Efficient Energy Management

8.3.4 Federal Agency Orders

DOT Order 5650.2 – Floodplain Management and Protections

DOT Order 5660.1A – Preservation of the Nation’s Wetlands

DOT Order 6510.2 – Environmental Justice

FAA Advisory Circular 150/5020 – Noise Control and Compatibility Planning for Airports

FAA Advisory Circular 150/5200-33A – Hazardous Wildlife Attractants on or Near Airports

FAA Advisory Circular 150/5100-17 – Land Acquisition and Relocation Assistance for Airport Improvement Program Assisted Projects

FAA Advisory Circular 150/5370-10A – Standards for Specifying Construction of Airports

FAA Order 1050.1D – Policies and Procedures for Considering Environmental Impacts

FAA Order 5050.4A – Airport Environmental Handbook

FAA Order 1050.1E – Environmental Impacts: Policies and Procedures
8.3.5 Federal Agency Guidance Documents

The FAA Airport Benefit-Cost Analysis Guidance, December 15, 1999

8.3.6 State of Illinois Statutes

Environmental Protection Act, 415 ILCS 5
O’Hare Modernization Act, Public Act 93-0450
IDOT Illinois Farmland Preservation Act
Illinois Endangered Species Protection Act, 520 ILCS 10
Illinois Regulation Code Title 41, Part 170 – Storage, Transportation, Sale, and Use of Petroleum and Other Regulated Substances, IL Title 41 Part 170
Illinois Solid Waste Management Act, 415 ILCS 20
Illinois State Implementation Plan (as related to Air Quality, Section 5.6)
Local Solid Waste Disposal Act, 415 ILCS 10
Solid Waste Planning and Recycling Act, 415 ILCS 15
Underground Injection Control and Underground Storage Tank Programs, IL Title 35 Subtitle G Chapter 1 Subchapter D

8.4 REFERENCE DOCUMENTS

8.4.1 Chapter 1, Introduction and Background Reference Documents

1. Notice of Intent to Prepare an Environmental Impact Statement and to Conduct Environmental Scoping for Improvements to the O’Hare International Airport, in Chicago, IL, Federal Register: July 17, 2002 (Volume 67, Number 137, Page 47029-47030).

2. www.agl.faa.gov/OMP/DEIS


5. FAA 2003 CY Air Carrier Activity Information System (ACAIS), Enplanements by Individual Carriers for Calendar Year 2003, Chicago O’Hare International Airport (ORD), Report Date: 11/04/2004.


8. FAA Record of Decision, Chicago O’Hare International Airport Master Plan, November 14, 1984.


27. The Notice of Availability for the Gary/Chicago International Airport Record of Decision, FAA, Federal Register, Volume 70, Number 56, March 24, 2005.


30. FAA 2002 CY Air Carrier Activity Information System (ACAIS), Enplanements by Individual Carriers for Calendar Year 2002, Chicago O’Hare International Airport (ORD), Report Date: 12/01/2004; FAA 2002 CY Air Traffic Activity Data System (ATADS), Report Date 12/02/2004


33. U.S. Department of Transportation T-100 Onboard Database.

34. FAA Air Traffic Activity Data System (ATADS), May 25, 2005.


45. Multi-Year Commitment of Airport Improvement Program Grant-in Aid Funding, March 1, 2004, Updated February 2005.


Table 1-1
USDOT Passenger Origin and Destination Survey; USDOT T-100 Onboard Database; USDOT 298(c) Enplanement Database.

Table 1-2
FAA Air Traffic Activity Data System (ATADS), May 25, 2005.

Table 1-3
FAA 2002 TAF.

Table 1-4
Table 1-5  Chicago Airport System Forecast, City of Chicago – Department of Aviation, June 1998; FAA 2002 TAF.
Table 1-7  Gary/Chicago International Final EIS, Exhibit 1-8, FAA, October 2004.
Table 1-8  FAA 2002 TAF.
Table 1-9  Federal Aviation Administration, November 5, 2004.
Table 1-10  O’Hare International Airport Master Plan, City of Chicago, February 2004.
Table 1-12  O’Hare International Airport Master Plan, Section VII, City of Chicago, February 2004.

8.4.2  Chapter 2, Purpose and Need Reference Documents


27. Ricondo and Associates, Inc. [CCT], Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2007 No Action, Table I-10, ORD Arrival Pre-departure Ground Delay at ORD, January 2004. Delay cost estimated based on an average unit aircraft direct operating cost of approximately $25 per minute as calculated by Leigh Fisher Associates using aircraft operating cost data reported in U.S. Department of Transportation Form 41 filings for Calendar Year 2003.


30. Runway calculated at max takeoff weight under ISA + 15°C conditions as per Airplane Characteristics for Airport Planning AC, A380, Preliminary Issue, January 2002, Airbus S.A.S.


32. O’Hare International Airport Master Plan, City of Chicago, Page IV-17, February 2004.

33. O’Hare International Airport Master Plan, City of Chicago, Page IV-17, February 2004.

34. O’Hare International Airport Master Plan, City of Chicago, February 2004; World Gateway Program Final EA, FAA, Section 1.2.3, June 2002

35. O’Hare International Airport Master Plan, City of Chicago, February 2004.

36. Chicago Airport System Competition Plans, O’Hare International Airport, October 24, 2000.

37. Chicago Airport System Competition Plans, O’Hare International Airport, October 24, 2000.
38. O’Hare International Airport Master Plan, City of Chicago, February 2004.
40. 2030 Regional Transportation Plan – Recommended Plan, Chicago Area Transportation Study (CATS), October 2003.
41. Leigh Fisher Associates, Inc. [TPC] based on DOT databases: Passenger Origin and Destination Survey Database, T-100 Onboard Database, USDOT 298(c) Enplanement Database.
42. The Notice of Availability for the Gary/Chicago International Airport Record of Decision, FAA, Federal Register, Volume 70, Number 56, March 24, 2005.

Table 2-2  FAA OPSNET, November 2004.
Table 2-4  TPC Analysis of FAA ASPM Data, December 2004.
Table 2-6  Federal Aviation Administration, 2002 Terminal Area Forecast; TPC analysis.

8.4.3 Chapter 3, Alternatives Reference Documents

1. Council on Environmental Quality Regulations, Section 1502.14
3. Airport Capacity Benchmark Report 2004, FAA.
7. O’Hare International Airport Master Plan, Table IV-10, Page IV-28, City of Chicago, February 2004.
10. Assumed percentage of modal diversion based upon “Regional Change in Domestic Origin and Destination Traffic by Mile Group” chart presented in Friday, November 12, 2004 Aviation Daily.
11. Assumed percentage of modal diversion based upon “Regional Change in Domestic Origin and Destination Traffic by Mile Group” chart presented in Friday, November 12, 2004 Aviation Daily.


Table 3-2

Table 3-5
Federal Aviation Administration.

Table 3-7

Table 3-8-10

Table 3-11
TPC Analysis.

8.4.4 Chapter 4, Affected Environment Reference Documents

1. Noise exposure based on the composite of all noise contours for each alternative under consideration. Noise impacts will be discussed further in Section 5.2, Compatible Land Use.


Table 4.3-1-2

Table 4.4-1
Chicago O’Hare International Airport Delineation of Wetland and Floodplain areas, Harza Environmental Services, February 2000; Chicago O’Hare International Airport Acquisition Area Survey, MHW [CCT], May 13, 2004.

8.4.5 Chapter 5, Environmental Consequences Reference Documents

8.4.5.1 Section 5.0 Introduction


8.4.5.2 Section 5.1 Noise


Table 5.1-2 TPC analysis, December 2004.

Table 5.1-3-4 Housing and Population database: City of Chicago; Contours: Leigh Fisher Associates [TPC]; Land Use, Noise Sensitive Facilities, Population and Housing data: TPC Analysis, July 2005.

Table 5.1-5 TPC Analysis, July 2005.


8.4.5.3 Section 5.2 Compatible Land Use


Table 5.2-2-5 Housing and Population database: City of Chicago, June 2005; Noise Sensitive Facilities, Population and Housing data: Crawford, Murphy, & Tilly, Inc. [TPC] analysis, July 2005.

8.4.5.4 Section 5.3 Surface Transportation


5. Letter from Kermit Wies, Chicago Area Transportation Study, to Michael MacMullen, Federal Aviation Administration, May 12, 2003 (included as Attachment G-1 in Appendix G, Surface Transportation).


Table 5.3-1 2000 Highway Capacity Manual; Transportation Research Board; National Research Council, Washington; D.C. 2000

Table 5.3-2 Jacobs Engineering Group, Inc. [TPC] analysis, 2004.

Table 5.3-3 Jacobs Engineering Group, Inc. [TPC] review of information received from Kimley-Horn and Associates, Inc. [CCT], 2004.

Table 5.3-5  Jacobs Engineering Group, Inc. [TPC] review of information received from Kimley-Horn and Associates, Inc. [CCT], 2004.

Table 5.3-8-15  Jacobs Engineering Group, Inc. [TPC] review of information received from Kimley-Horn and Associates, Inc. [CCT], 2004.

8.4.5.5  Section 5.4 Social Impacts


5. Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations (59 FR 7629, February 16, 1994).


Table 5.4-2 Chicago Multiple Listing Service. October 2003.

Table 5.4-3-4 Website: http://www.isbe.net/research/htmls/schools_districts.htm#ipsd, November 15, 2004.

Table 5.4-5 Population: U.S. Census Bureau, 200 Census, File SF1, Matrix P1; Housing Units: City of Chicago, Department of Aviation, Home Sound Insulation Program Database, 2004

Table 5.4-6 Draft O’Hare Land Acquisition Relocation Plan, O.R. Colan, March 13, 2003.

Table 5.4-7 Summary File 1, Matrix P12, U.S. Census Bureau, Census 2000.

Table 5.4-8-9 TPC Analysis of 2002 Cook County and DuPage County Tax Bills for parcels proposed to be acquired.

Table 5.4-10 2002 Cook County and DuPage County Tax Bills; State Illinois Board of Education, “ILEARN (Illinois Local Education Agency Retrieval Network)” on-line database http://206.166.105.128/ilearn/ASP/LstARCDData.asp.

Table 5.4-11 TPC Analysis.

8.4.5.6 Section 5.5 Induced Socioeconomic Impacts

1. Long Range Forecasting at NIPC, Uncovering the Science and the Art, 03D_InterpAssume.htm, CD compiled by NIPC, June 2004.


Table 5.5-1-3 Hamilton, Rabinovitz & Alschuler, Inc. [CCT], OMP and No-Project Regional Economic Impact Estimates and Projections, December 24, 2004; Long Range Forecasting at NIPC, Uncovering the Science and the Art, 03D_InterpAssume.htm, CD compiled by NIPC, June 2004.
8.4.5.7 Section 5.6 Air Quality

1. 49 USC 1601.
2. 49 USC Chapter 53.
3. 40 CFR Part 51, Subpart T Conformity to State or Federal Implementation Plans of Transportation Plans, Programs and Projects Developed, Funded or Approved under Title 23 U.S.C. or the Federal Transit Laws.
4. 40 CFR Part 51, Subpart W Determining Conformity of General Federal Actions to State or Federal Implementation Plans. 40 CFR Part 93, Subpart B applied after States include general conformity requirements in their SIPs.
5. 40 CFR §93.158.


23. 40CFR Part 93 Subpart A, defines regionally significant roadway projects as “a transportation project ... that is on a facility which serves regional transportation needs ... and would normally be included in the modeling of a metropolitan area's transportation network”


29. A USEPA program that supports businesses in reducing energy usage through practices which are energy efficient (http://www.energystar.gov/index.cfm?c=about.ab_index).


Table 5.6-1  40 CFR Part 50, National Primary and Secondary Ambient Air Quality Standards.

Table 5.6-2  Environmental Science Associates, Inc. [TPC] analysis of information provided by the Illinois Environmental Protection Agency.

Table 5.6-3-5  Environmental Science Associates, Inc. [TPC] analysis of information provided by the Illinois Environmental Protection Agency.

Table 5.6-6  AIRData – Monitor Values Reports. USEPA, Office of Air Quality Planning and Standards. http://www.epa.gov/air/data/index.html, May, 2005.

Table 5.6-7  Environmental Science Associates, Inc. [TPC], 2004/2005.


Table 5.6-23  Environmental Science Associates, Inc. [TPC] analysis, 2005.

Table 5.6-25  Environmental Science Associates, Inc. [TPC] analysis, 2005.

8.4.5.8 Section 5.7 Water Quality


5. Total Maximum Daily Load Program, United States Environmental Protection Agency. www.epa.gov/owow/tmdl/states/iltdmld1ables.html


7. O’Hare NPDES Revised Permit Renewal Package Final Supplement from Kellie Rotunno, CDM, to Tom McSwiggin, IEPA, dated March 3, 2005.

8. Title 41 IAC Part 170.10, Storage, Transportation, Sale, and Use of Petroleum and Other Regulated Substances.


Table 5.7-1 Watershed delineation from CTE Engineers, produced for DOA NPDES permit application.

8.4.5.9 Section 5.8 DOT Section 4(f) Lands

1. 36 C.F.R. § 59.3.

2. Letter from FAA to IHPA, June 2, 2005.


5. Village of Bensenville Park District, TPC Field Observations.


8. Letter from IHPA to Keeper of the NRHP, June 14, 2005.


15. Letter from FAA to IHPA, June 24, 2005.

Table 5.8-1  
TPC Analysis.

8.4.5.10  Section 5.9 Historic

2. The ACHP provides a web site that outlines the Section 106 process in detail, including a flow chart, description and a link to the regulations. For in depth description of the process see Website: http://www.achp.gov.106summary.html.
3. Correspondence Log, Archaeological Research Incorporated [TPC].
4. OM EIS IHPA Comment Letters (CD), Archaeological Research Incorporated [TPC], December 15, 2004
5. World Gateway Program Environmental Assessment, Federal Aviation Administration, June 2002.
13. Letter from IHAP to Keeper of the NRHP, June 14, 2005.
17. Letter from FAA to IHPA, June 27, 2005.
34. Phase I Environmental Baseline Study O’Hare Air Reserve Forces Facility, Harza Environmental Services, January 1997.
37. Categorical Exclusion Determination for Demolition of Surplus Structures Associated with the Former O’Hare Air Reserves Forces Facility (ARFF), Federal Aviation Administration, March 12, 2002.
41. World Gateway Program Environmental Assessment, Federal Aviation Administration, June 2002.
42. Criterion Consideration G - A property achieving significance within the last fifty years is eligible if it is of exceptional importance (NR Bulletin 15:42).
47. National Register Bulletin 22. Guidelines for Evaluating and Nominating Properties that have Achieved Significance within the Last Fifty Years.

48. Preliminary Final Environmental Assessment for Scenic Hold Pad, Chicago O’Hare International Airport, City of Chicago Department of Aviation, April 1994; Final Environmental Assessment for Chicago/FAA Delay Task Force Recommendations: Hold Pads for Runways 9R and 27L; and Angled Exit Taxiway for Runway 4R at Chicago O’Hare International Airport, City of Chicago Department of Aviation, December 1992; Phase I Environmental Baseline Study O’Hare Air Reserve Forces Facility, Harza Environmental Services, January 1997; Final Environmental Assessment for Proposed United Airlines Headquarters Campus, Chicago O’Hare International Airport, City of Chicago Department of Aviation, April 28, 2000; Final Environmental Assessment for Proposed Touhy Avenue Detention Basin (Including Structure 140 and the Rechannelization of Willow-Higgins Creek), Chicago O’Hare International Airport, City of Chicago Department of Aviation, July 20, 2001; Final Environmental Assessment for Proposed O’Hare Express North Development, Chicago O’Hare International Airport, City of Chicago Department of Aviation, January 2002; Final Environmental Assessment for the World Gateway Program and Other Capital Improvements, City of Chicago Department of Aviation, June 2002.


52. DRAFT Prehistoric and Historic Archaeological Predictive Model of the Southwest Parcel of the O’Hare Modernization Environmental Impact Statement, Cook County, Illinois, October 6, 2004.


54. IHPA letter to FAA, June 2, 2005.

Table 5.9-1 TPC Analysis.
Table 5.9-3-4 TPC Analysis.

8.4.5.11 Section 5.10 Biotic Communities


Table 5.10-1    FAA National Wildlife Strike Database (Level I) – Version 5.01, October 13, 2004.
Table 5.10-2-4  Crawford, Murphy, and Tilly, Inc. [TPC] Analysis, September 2004.

8.4.5.12  Section 5.11 Threatened and Endangered Species


10. Letter from Steve Hamer, IDNR, to Michael Boland, City of Chicago Department of Aviation, O’Hare Modernization Program Office, June 20, 2005


8.4.5.13 Section 5.12 Wetlands

1. Interagency Coordination Agreement Among U.S. Army Corps of Engineers, Chicago District, Federal Aviation Administration, Chicago Airports District Office, and Illinois Environmental Protection Agency, for Coordination of the O’Hare Airport Modernization Project, Executed May 17, 2004.


4. Chicago O’Hare International Airport, Draft Delineation of Wetland and Floodplain Areas, Harza Environmental Services, November 1999.

5. Chicago O’Hare International Airport, Draft Delineation of Wetland and Floodplain Areas, Harza Environmental Services, February 2000.

6. Letter from Keith L. Wozniak, Chief, West Section Regulatory Branch, U.S. Army Corps of Engineers to James Considine, City of Chicago Department of Aviation. October 28, 2002. Copies were also provided to USEPA, IEPA, and U.S. Fish and Wildlife Service.


14. Letter from Steve Hamer, IDNR, to Michael Boland, City of Chicago Department of Aviation, O’Hare Modernization Program Office, June 20, 2005.


17. Wildlife Hazard Mitigation Statement-Memorandum of Agreement between the FAA, the U.S. Air Force, the USEPA, the USFWS, and the USDA, July 29, 2003.


Table 5.12-1  Chicago O'Hare International Airport Delineation of Wetland and Floodplain Areas, Harza Environmental Services, February 2000. Updated by MWH [CCT], 2004.

Table 5.12-2  MWH [CCT], 2004.

Table 5.12-3  City of Chicago Department of Aviation Individual Permit Application to U.S. Army Corps of Engineers, November 2004.

Table 5.12-4  City of Chicago Department of Aviation Individual Permit Application to U.S. Army Corps of Engineers, November 2004. (Revised June 23, 2005).

8.4.5.14  Section 5.13 Floodplains


2. 17 IAC 3708, Floodway Construction in Northeastern Illinois.


4. FEMA CLOMR Application for Willow-Higgins Creek Relocation, City of Chicago O’Hare Modernization Program, August 16, 2004


Table 5.13-1  Crawford, Murphy and Tilly, Inc. [TPC] analysis, September 2004.
8.4.5.15 Section 5.15 Wild and Scenic Rivers


4. Letter to NPS from FAA, dated November 4, 2004; and Interagency Consultation to Avoid or Mitigate Adverse Effects on Rivers in the Nationwide Inventory, Council of Environmental Quality Memorandum, August 10, 1980.


8.4.5.16 Section 5.17 Energy Supply and Natural Resources

1. Executive Order 13123, Greening the Government Through Efficient Energy Management (64 FR 30851), June 8, 1999.


Table 5.17-1-5 Synergy Consultants, Inc. [TPC] review of information supplied by the City of Chicago, August 13, 2004.


8.4.5.17  Section 5.19 Solid and Hazardous Wastes

1. RCRA 42 U.S.C. Section 6903(27).
2. RCRA 42 U.S.C. Section 6903(27).
16. Phase I Environmental Site Assessment Reports for On-Airport Facilities to be Demolished at O’Hare (3 CDs), Environmental Design International, Inc., received August 2, 2004.

Table 5.19-2  Crawford, Murphy, and Tilly, Inc. [TPC] analysis, December, 2004.


8.4.5.18  Section 5.20 Construction

5. Phase I Environmental Site Assessment Reports for On-Airport Facilities to be Demolished at O’Hare (3 CD’s), Environmental Design International, Inc. [CCT], received August 2, 2004.
8. Construction Outreach Program for the O’Hare Modernization Program, City of Chicago, July 8, 2005 (included as Attachment Q3 in Appendix Q, Construction).


Table 5.20-5-6  Crawford, Murphy, and Tilly, Inc. [TPC], analysis of information received from the AOR/TOK, December 2004.

Table 5.20-7  City of Chicago O’Hare Modernization Program, 2004. Crawford, Murphy, and Tilly, Inc. [TPC], analysis of information received from the AOR/TOK, June 2005.


Table 5.20-13  Jacobs Engineering Group, Inc. [TPC] review of information received from Kimley-Horn and Associates, Inc. [CCT], 2004.


8.4.5.19 Section 5.21 Environmental Justice


4. Interim Environmental Justice Policy. Illinois Environmental Protection Agency, Website: http://www.epa.state.il.us/environmental-justice/policy.html


14. 40 CFR Part 81, Air Quality Designations and Classifications for the 8-Hour Ozone NAAQS.

15. City of Chicago Land Acquisition Program Website: http://egov.cityofchicago.org/city/webportal/portalDeptCategoryAction.do?BV_SessionID=@@@@0251109114.110130422@&BV_EngineID=ccceadddefhimmelcfeecelldffhdignum.0&deptCategoryOID=-53688466&contentType=COC_EDITORIAL&topChannelName=SubAgency&entityName=OHar e+Modernization+Program&deptMainCategoryOID=-53688466

**Table 5.21-1** United States Census Bureau, 2000 Decennial Census; FAA/OMP Public Outreach Session PowerPoint Slide, May 23, 2004.

**Table 5.21-2-7** TPC Analysis, United States Census Bureau, 2000 Decennial Census, File SF1, Matrices P7 and P8.

**Table 5.21-8** TPC analysis based on results of the surface transportation analyses presented in Section 5.3, Surface Transportation. 2000 U.S. Census Data

**8.4.5.20 Section 5.22 Other Issues Relating to Cemetery Acquisition**


8.4.6 Chapter 6, Cumulative Impacts Reference Documents


8. 2003 Terminal Area Forecast, Federal Aviation Administration.


Table 6-1 U.S. Census Bureau, and Northeastern Illinois Planning Commission (NIPC)

Table 6-2 TPC analysis, January 2005.

Table 6-3 1982: Environmental Impact Statement, FAA, May 1984, Volume Two of Two, Appendix A, Exhibit 20; 2002 and Build-Out +5: Table 1, Geographic Disaggregation of OMP and No-Project Alternative Regional Economic Impacts, HR&A [CCT], December 24, 2004.

Table 6-4 1979: Environmental Impact Statement, FAA, May 1984, page 84.


Table 6-7 Table E-19 Project Definition Matrix in Appendix E. TPC Analysis.

Table 6-8 TPC Analysis.
8.4.7 Chapter 7, Mitigation Reference Documents

1. City of Chicago School Sound Insulation Program, December 14, 2004

2. City of Chicago Residential Sound Insulation Program, December 14, 2004

   Grants for Noise Mitigation Projects, Federal Aviation Administration, 14 CFR 150.


7. Standards for the Treatment of Historic Buildings, U.S. Department of Interior, National Park

8. Interagency Coordination Agreement Among U.S. Army Corps of Engineers, Chicago District,
   Federal Aviation Administration, Chicago Airports District Office, and Illinois Environmental
   Protection Agency, for Coordination of the O’Hare Airport Modernization Project. Executed May

9. City of Chicago Department of Aviation Individual Permit Application to U.S. Army Corps of
   Engineers, November 2004.

10. City of Chicago Department of Aviation Individual Permit Application to U.S. Army Corps of
    Engineers, November 2004.

11. Wildlife Hazard Mitigation Statement-Memorandum of Agreement between the FAA, the U.S.
    Air Force, the USEPA, the USFWS, and the USDA, July 29, 2003.

12. Construction Outreach Program for the O’Hare Modernization Program, City of Chicago, July 8,
    2005 (included as Attachment Q-3 in Appendix Q, Construction).

    Department of Aviation, March 2003.


15. Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Population

16. City of Chicago Land Acquisition Program Website:
    0251109114.1101308422@@@@&BV_EngineID=ccceadddefhimmlcefece1dffdfgn.0&deptCategory
    OID=536884668&contentType=COC_EDITORIAL&topChannelName=SubAgency&entityName=OHare+Modernization+Program&deptMainCategoryOID=536884668


19. Letters from FAA to City of Chicago Department of Aviation dated December 5, 2001, August 19,


Table 7-1

| City of Chicago Department of Aviation Individual Permit Application to U.S. Army Corps of Engineers, November 2004 (Revised June 23, 2005). |

8.4.8 Appendix A, Introduction and Background Reference Documents


4. “Ryan backs most of city O'Hare plan; Governor also pushes ahead with proposal to build Peotone;” Chicago Tribune article, October 18, 2001.


8. FAA Tower Order 7110.65E, Section 4-2-8, paragraph 26, February 15, 2004.


14. 2002 Terminal Area Forecast, Federal Aviation Administration, Years are fiscal.


Table A-2  O'Hare International Airport Master Plan, City of Chicago, February 2004.

Table A-3  Back Aviation Solutions OAG Schedules Database, October 16, 2004; http://www.flychicago.com/ohare/airlines/airlines_commercial.shtml#lingus

Table A-4  Back Aviation Solutions OAG Schedules Database, October 16, 2004.


Table A-6-7  Leigh Fisher Associates [TPC] Analysis of data obtained from the FAA’s Aviation System Performance Metrics (ASPM) data system, October 2004.

Table A-8  (b) Terminal Area Forecast, Fiscal Year 2002, FAA.; (c) Howell-New Lenox is not listed in 2002 TAF; Number of yearly operations based on average of 82 per day according to http://www.airnav.com; November 2004.

8.4.9 Appendix B, Aviation Demand Forecast Reference Documents

1. Letter from FAA to the City of Chicago, December 19, 2002.

2. Letter from FAA to the City of Chicago, August 21, 2003.

Table B-1  Leigh Fisher Associates [TPC].

Table B-2  Leigh Fisher Associates [TPC] based on analysis of US DOT data.

Table B-3  2002 FAA Terminal Area Forecast, published in March 2003.

Table B-4  Leigh Fisher Associates [TPC] based on assumptions stated in text.

Table B-5  Leigh Fisher Associates [TPC].

Table B-6  Leigh Fisher Associates [TPC] based on assumptions stated in text.

Table B-7-14  Leigh Fisher Associates [TPC].

8.4.10 Appendix C, Use of Other Regional Airports Reference Documents

1. This estimate is based on information obtained from www.airnav.com.

2. 2002 Terminal Area Forecast, Federal Aviation Administration, Years are fiscal.

3. TPC analysis using FAA AC150/5060-5, Airport Capacity and Delay, based on existing conditions at the airport.

4. The 2002 Terminal Area Forecast projects that approximately 352,700 operations will occur at Midway in FY 2007.
5. 2002 Terminal Area Forecast, Federal Aviation Administration, Years are fiscal.
8. Gary/Chicago International Airport Final EIS, coversheet, FAA, October 8, 2004
10. 2002 Terminal Area Forecast, Federal Aviation Administration, Years are fiscal.
11. TPC analysis using FAA AC150/5060-5, Airport Capacity and Delay, based on existing conditions at the airport.
13. 2002 Terminal Area Forecast, Federal Aviation Administration, Years are fiscal.
15. 2002 Terminal Area Forecast. Federal Aviation Administration. Years are fiscal.

Table C-1-2  US DOT Airline Passenger Origin and Destination Survey; US DOT T-100 Onboard Database; US DOT 298(c) Enplanement Database; Leigh Fisher Associates Analysis [TPC], November 2004.

Table C-3 (a) Except as noted, 2018 activity forecasts are from the 2002 FAA Terminal Area Forecast. Years are fiscal. (b) TPC analysis using FAA AC 150/5060-5, Airport Capacity and Delay. Based on existing conditions at those airports. (c) Greater Rockford Airport Master Plan Study, 1993. (d) General Mitchell International Airport, Master Plan Update, Table 4.1-6, October 27, 2003. (e) High-range estimate of Date of Beneficial Occupancy (DBO)+10 forecast, Projections of Aeronautical Activity for the Inaugural Airport Program South Suburban Airport, May 11, 2004.
8.4.11 Appendix D, Simulation Reference Documents


8.4.12 Appendix E, Alternatives Reference Documents


10. THOMAS Legislative Information on the Internet, http://thomas.loc.gov/


Transportation Secretary Slater Announces Extension of Chicago Hub High Speed Rail Corridor to Indianapolis and Cincinnati, www.dot.gov/affairs/fra0199


30. O’Hare International Airport Master Plan, City of Chicago, Page IV-17, February 2004.


Table E-1

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<td>Air miles were provided by <a href="http://www.webflyer.com/travel/milemarker">www.webflyer.com/travel/milemarker</a>; USDOT 10% Passenger Ticket Survey – Domestic Calendar Year (DCY) 2002; Train travel times were provided by <a href="http://www.amtrak.com">www.amtrak.com</a> and were based on their schedule as of March 9, 2004; Airfares are based on the lowest 14-day advance, weekday, roundtrip, most direct flight from Chicago O’Hare to each market, <a href="http://www.expedia.com">www.expedia.com</a>, April 15, 2004; Train fares for all but South Bend were provided by Amtrak and were based on their schedule as of March 9, 2004. Two of the seven trips to South Bend were provided by Amtrak; the other five are provided by the South Shore Line; The price shown is for the South Shore Line, <a href="http://www.nictd.com">www.nictd.com</a>.</td>
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<td>CY 2002, USDOT 10% Passenger Ticket Survey via BACK Aviation Solutions; Air miles - Great Circle Distance (statute miles) calculated from OAG schedules via BACK Aviation Solutions; Estimated from OAG schedules for November 12, 2004 via BACK Aviation Solutions; Road miles - statue miles from <a href="http://www.randmcnally.com">www.randmcnally.com</a>; based on fastest route.</td>
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<td>FAA/TPC Analysis.</td>
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<td>O’Hare International Airport Master Plan, Page IV-24, City of Chicago, February 2004.</td>
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<td>O’Hare International Airport Master Plan, City of Chicago, February 2004.</td>
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<th>Description</th>
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8.4.13 Appendix F, Noise Reference Documents


15. Pearsons, K.S., et al., Analyses of the Predictability of Noise-induced Sleep Disturbance, Department of Safety, Environment and Engineer, Civil Aviation Authority (United Kingdom), 1990.


29. SoundPLAN® Version 6.2 is the current release and was used in the evaluation. Documentation provided in SoundPLAN® User’s Manual, Braunstein + Berndt GmbH, January 2004.

31. The OMP EIS Aircraft Ground Noise Analysis report can be found at the end of this Appendix as Attachment F-3.


34. OMP EIS Highway Noise Technical Report, October 2004, this report can be found at the end of this Appendix as Attachment F-4.

35. OMP EIS Railroad Noise and Vibration Technical Report, October 2004, this report can be found at the end of this Appendix as Attachment F-5.


37. The OMP EIS Composite Noise Analysis report can be found at the end of this Appendix as Attachment F-6.

38. The OMP EIS Composite Noise Analysis report can be found at the end of this Appendix as Attachment F-6.

39. The O‘Hare Modernization EIS Airspace Noise Analysis report can be found at the end of this Appendix as Attachment F-7.


Table F-1  
Leigh Fisher Associates, October 2004, as derived from the U.S. Department of Transportation, Federal Aviation Administration, Federal Aviation Regulations Part 150, Airport Noise Compatibility Planning, Code of Federal Regulations, Title 14, Chapter I, Subchapter I, Part 150, Table 1, January 18, 1985, as amended.

Table F-2  

Table F-4-7  

Table F-8  

Table F-9  

Table F-10  

Table F-11  

Table F-12  

Table F-13  
Table F-19  Chicago Airport Noise Monitoring System and O’Hare International Airport 2002 Tower Counts.
Table F-20-45  Chicago O’Hare ANMS Data February, June, and October 2002.
Table F-48  Search on www.smartpages.com
Table F-49  DuPage County Park District, Cook County Park District, Community Park Districts.
Table F-51  Searches on www.smartpages.com for “hospital,” “nursing home,” “convalescent home,” “clinics,” and “emergency” for the communities of Bensenville, Chicago, Des Plaines, Elk Grove Village, Franklin Park, Harwood Heights, Itasca, Norridge, Northlake, Park Ridge,
Rosemont, Schiller Park, and Wood Dale. Only in-patient facilities were included in results.

Table F-52  Search on www.smartpages.com

Table F-53  DuPage County Park District, Cook County Park District, Community Park Districts.

Table F-54-55  SSIP: City of Chicago Department of Aviation Noise Office, SSIP Information, June 2005.


Table F-58-59  Search on www.smartpages.com

Table F-60-61  DuPage County Park District, Cook County Park District, Community Park Districts.

Table F-62-63  SSIP: City of Chicago Department of Aviation Noise Office, SSIP Information, June 2005.


Table F-66-67  Search on www.smartpages.com

Table F-68-69  DuPage County Park District, Cook County Park District, Community Park Districts.

Table F-71-73  O’Hare Modernization EIS Highway Noise Technical Report, Jacobs Civil Inc. [TPC], October 2004.

Table F-74-75  O’Hare Modernization EIS Railroad Noise and Vibrational Technical Report, Jacobs Civil, Inc. [TPC], October 2004.

Table F-76-78  HMMH [TPC] analysis, 2004.

Table F-79  FAA October 22, 2003 Meeting.
8.4.14 Appendix G, Surface Transportation Reference Documents


2. O’Hare Airport CTA Customer Travel Survey, Chicago Transit Authority, June 2000.


5. Screen Captures from IDOT Website for Average Daily Traffic Counts. www.dot.state.il.us/public/html (IDOT provided 2000 date for tollways/expressways.)

6. Screen Captures from IDOT Website for Average Daily Traffic Counts. www.dot.state.il.us/public/html (IDOT provided 2000 date for tollways/expressways.)

7. Screen Captures from IDOT Website for Average Daily Traffic Counts. www.dot.state.il.us/public/html (IDOT provided 2000 date for tollways/expressways.)

8. O’Hare Airport CTA Customer Travel Survey, Chicago Transit Authority, June 2000.


10. O’Hare Airport CTA Customer Travel Survey, Chicago Transit Authority, June 2000.


28. Airport Layout Plan, O’Hare International Airport, City of Chicago, Department of Aviation, October 2003.
32. 2020 Regional Transportation Plan; Transportation Improvement Program for Northeastern Illinois; Fiscal Years 1998-2002; Conformity Analysis Documentation; Appendix B Chicago Area Transportation Study, November, 1997.

Table G-1 Metra / Northeast Illinois Regional Commuter Railroad Corporation, Effective January 8, 2001.
Table G-3-4 Chicago O’Hare International Airport, O’Hare Modernization Program, 2002 Surface Transportation Survey, Technical Memorandum, Summary of Data Collection, Analysis of Survey Results. Kimley-Horn and Associates, June 27, 2002 (revised January 2003).
Table G-5-6 Jacobs Engineering Group, Inc. [TPC] analysis of information supplied by Kimley-Horn and Associates, Inc. [CCT].
Table G-7 Leigh Fisher Associates. [TPC] based on assumptions stated in text.

8.4.15 Appendix H, Social Impacts Reference Documents

1. O’Hare Modernization Act, Illinois Public Act 93-0450, August 6, 2003; the O’Hare Modernization Act is included for the reader’s reference as Attachment A-1 in Appendix A of the EIS.

**Table H-1-2**  TPC Analysis of 2002 Cook County and DuPage County Tax Bills for parcels proposed to be acquired.

### 8.4.16 Appendix I, HAPS Reference Documents

4. Toxicity is defined by USEPA as “Deleterious or adverse biological effects elicited by a chemical, physical, or biological agent.”  http://www.epa.gov/iris/gloss8.htm#t.  Toxicity values are used by USEPA to characterize the risks associated with HAPs. http://www.epa.gov/oppt/rsei/docs/toxwght97.pdf
7. The USEPA uses the classification “known” with respect to carcinogens when there is sufficient evidence from epidemiologic studies to support a casual association between exposure to the agents and cancer. The classification “probable” is used when the weigh of evidence of human carcinogenicity based on epidemiologic studies is limited or when the weight of evidence of carcinogenicity based on animal studies is “sufficient”. HAPs are classified as “possible” carcinogens when there is limited evidence of carcinogenicity in animals in the absence of human data. Finally, the USEPA uses the classification “not classifiable” when there is inadequate human and animal evidence of carcinogenicity or for which no data are available. http://cfpub.epa.gov/ncea/efm/recordisplay.cfm?deid=55445


19. Section 1502.22 of the Council on Environmental Quality Regulations (Incomplete or Unavailable Information).


31. 15 USC 35.

33. USEPA, 2000, Documentation for the 1996 Base Year National Toxics Inventory for Aircraft Sources, prepared by Eastern Research Group, Inc., prepared for Emissions Factor and Inventory Group (MD-14), Emissions, Monitoring and Analysis Division, June 2, 2000.


37. Meetings Minutes from June 16, 2004 Meeting with USEPA, IEPA, and FAA.

38. USEPA Air Quality System http://www.epa.gov/ttn/airs/airsaqs/


40. USEPA - http://www.epa.gov/air/toxicair/newtoxics.html#progress


42. 2001 Inventory of Toxic Air Emissions, Point, Area and Mobile Sources, Great Lakes Commission, April 2004.


46. 65 FR 21506 and 68 FR 18440


50. Argonne National Laboratory, Environmental Assessment Division and Decision and Information Sciences Division, United States Department of Energy, Air Screening Assessment for Cook County, Illinois, and Lake County, Indiana, March 2004.


56. South Coast Air Quality Management District, 1999, Multiple Air Exposure Study in the South Coast Air Basin (MATES-II), Draft Final Report.


60. CDM, 2003. Ambient Air Quality Human Health Risk Assessment for the Oakland International Airport Draft Report, prepared for the Port of Oakland Environmental Planning Department.


64. Meetings Minutes from June 16, 2004 Meeting with USEPA, IEPA, and FAA.


66. Hazardous Air Pollutant Speciation Profiles, June 29, 2004

67. Toxicty is defined by USEPA as “Deleterious or adverse biological effects elicited by a chemical, physical, or biological agent.” http://www.epa.gov/iris/gloss8.htm#t. Toxicity values are used by USEPA to characterize the risks associated with HAPs. http://www.epa.gov/oppt/rsei/docs/toxwght97.pdf


69. Defined by USEPA to be “An estimate (with uncertainty spanning perhaps an order of magnitude) of a continuous inhalation exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime.” Source: USEPA, Glossary of Integrated Risk Information System (http://www.epa.gov/iris/gloss8.htm#u).
70. Defined by USEPA to be “An estimate (with uncertainty spanning perhaps an order of magnitude) of a daily oral exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime.” Source: USEPA, Glossary of Integrated Risk Information System (http://www.epa.gov/iris/gloss8.htm#u).

71. http://www.epa.gov/iris/


74. Argonne National Laboratory, Environmental Assessment Division and Decision and Information Sciences Division, United States Department of Energy, Air Screening Assessment for Cook County, Illinois, and Lake County, Indiana, March 2004.


82. USEPA National Emissions Inventory Database. Facility HAP Emissions for airports in the US. Information provided to ESA by USEPA - April 2004.

Attachment I-1 (Detailed Summary of HAPS Health Effects) Reference Documents:


98. http://www.epa.gov/ttn/atw/nata/natsafaq.html#B7


104. Argonne National Laboratory, Environmental Assessment Division and Decision and Information Sciences Division, United States Department of Energy, Air Screening Assessment for Cook County, Illinois, and Lake County, Indiana, March 2004.


Table I-1  Environmental Science Associates, Inc. [TPC] analysis, 2004


Table I-4-7  USEPA AirData, http://www.epa.gov/air/data/geosel.html


Table I-11  Environmental Science Associates, Inc. [TPC] analysis, 2004


Table I-69  USEPA AirData, http://www.epa.gov/air/data/geosel.html.


Table I-73  USEPA National Emissions Inventory Database. Facility HAP Emissions for Cook and Dupage County CY1999, http://www.epa.gov/air/data/geosel.html

8.4.17冯，Air Quality Reference Documents


8. Illinois State Implementation Plan, 1990 Ozone Precursors Emissions Inventory for the Chicago Area, November, 1993 (Section 4.3.8 – Aircraft Refueling).


17. Meeting with IEPA on December 20, 2002.


33. Email, Rob Kaleel, IEPA, January 6, 2003.


35. Teleconference with IEPA, November 22, 2002.


37. AIRSData Monitor Values Report, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.


Attachment J-2 (General Conformity) Reference Documents:

40. 58 FR 62188 (November 24, 1993).

41. 58 FR 63214 (November 30, 1993).

42. 40 CFR 93.158(a)(1).

43. 40 CFR 93.158(a)(5) and Questions 17, 21, and 22 of the General Conformity Guidance for
Airports – Questions and Answers, September 25, 2002; Federal Aviation Administration and
United States Environmental Protection Agency.

44. 40 CFR 93.158(a)(5) and Questions 17, 21, and 22 of the General Conformity Guidance for
Airports – Questions and Answers, September 25, 2002; Federal Aviation Administration and
United States Environmental Protection Agency.

45. 56 FR 56694 (November 6, 1991).


48. 70 FR 944 (January 5, 2005).


(http://www.epa.gov/nonroad/nrstudy.pdf)

53. The O’Hare Modernization Program Airfield Service Road Traffic Study Draft Report, Ricondo &

54. The O’Hare Modernization Program [Drainage and Utility Infrastructure Study] Final Draft,

55. Final Environmental Assessment for the Upgrade of Runways 27L and 27R to a Category II/III


59. 58 FR 63214, November 30, 1993.

60. Questions 17, 21, and 22 of the General Conformity Guidance for Airports – Questions and
Answers, September 25, 2002; Federal Aviation Administration and United States Environmental
Protection Agency.

62. Consideration of Air Quality Impacts by Airplane Operations at or Above 3,000 feet AGL; Roger L. Wayson, Gregg G. Fleming; John A. Volpe National Transportation Systems Center, Safety and Environmental Technology Division, September 2000.


73. Meeting with IEPA on December 20, 2002.

74. Sam Long, IEPA, November 22, 2002.


77. The MOBILE model can downloaded at: http://www.epa.gov/otaq/m6.htm


82. 40 CFR 93, Subpart B (Section 93.158).


84. 40 CFR 93.158(a)(5) and Questions 17, 21, and 22 of the General Conformity Guidance for Airports – Questions and Answers, September 25, 2002; Federal Aviation Administration and United States Environmental Protection Agency.


86. 40 CFR 93.158(a)(1).

87. 40 CFR 93.158(a)(5) and Questions 17, 21, and 22 of the General Conformity Guidance for Airports – Questions and Answers, September 25, 2002; Federal Aviation Administration and United States Environmental Protection Agency.

88. 40 CFR 93.158(a)(5) and Questions 17, 21, and 22 of the General Conformity Guidance for Airports – Questions and Answers, September 25, 2002; Federal Aviation Administration and United States Environmental Protection Agency.

89. 40 CFR 93.158(a)(1).

90. 40 CFR 93.158(a)(1).

91. 40 CFR 93.158(a)(5) and Questions 17, 21, and 22 of the General Conformity Guidance for Airports – Questions and Answers, September 25, 2002; Federal Aviation Administration and United States Environmental Protection Agency.

92. 40 CFR 93.158(a)(5) and Questions 17, 21, and 22 of the General Conformity Guidance for Airports – Questions and Answers, September 25, 2002; Federal Aviation Administration and United States Environmental Protection Agency.

Table J.2-1A  Environmental Science Associates, Inc. [TPC] analysis of TAAM data (Table 6 - Fleet Mix and Modeled Gates) and PMAD Assignments, 2004/2005.

Table J.2-1B  Environmental Science Associates, Inc. [TPC] analysis of TAAM data (Table 6 - Fleet Mix and Modeled Gates) and PMAD Assignments, 2004/2005.

Table J.2-2  Environmental Science Associates, Inc. [TPC] analysis of TAAM data (Table 4 – Travel and Delay Times), 2004/2005.


Table J.2-60A, B  Environmental Science Associates, Inc. [TPC] analysis 2004, based on off-site vehicle mix data provided by IEPA (Kimley-Horn Exhibit 6-9) and onsite vehicle mix data provided by Kimley-Horn (Exhibit 6-8); Alternative A = No Action, Alternative C, D, and G are Build Alternatives.


Table J.2-62  Environmental Science Associates, Inc. [TPC] review of Growth Rates for Air Quality Stationary Sources, dated January 6, 2004 provided by Landrum and Brown, Inc. [CCT].

Table J.2-63  Title V – CAAPP Permit, City of Chicago Department of Aviation, O'Hare International Airport, I.D. No. 031600FQP, Illinois Environmental Protection Agency, June 18, 2001.


Table J.2-65  Crawford, Murphy, & Tilly, Inc. [TPC], analysis of information received from the AOR/TOK, December 2004.


Table J.2-82-84  Environmental Science Associates, Inc. [TPC] analysis, 2005.


Table ES-1  SIP emission levels: Illinois Environmental Protection Agency; O'Hare-Related Emissions: Environmental Science Associates, 2005

Table 1-1  40 CFR Part 81, Air Quality Designations and Classifications for the 8-hour ozone NAAQS. USEPA, Areas Designated Non-attainment for the Fine Particle National Air Quality Standard, Fact Sheet: http://www.epa.gov/pmdesignations/documents/final/factsheet.htm.

Table 1-2-5  Environmental Science Associates, Inc. [TPC] analysis of information provided by the Illinois Environmental Protection Agency.

Table 1-6  Illinois Environmental Protection Agency.

Table 2-1  Federal Aviation Administration, November 5, 2004.

Table 2-2  National Oceanic & Atmospheric Administration Survey, September 2002.

Table 2-3-5  Draft Airport Layout Plan, October 2003; National Oceanic & Atmospheric Administration Survey, September 2002.

Table 3-1  General Conformity Rules.

Table 5-3  Construction Impacts Draft Technical Working Report, AOR/TOK [CCT], September 2004.
Table 5-4 Crawford, Murphy, & Tilly, Inc. [TPC], analysis of information received from the AOR/TOK, December 2004.
Table 5-5-7 Environmental Science Associates, 2005.
Table 5-15 Environmental Science Associates, 2005.
Table 5-17 Environmental Science Associates, 2005.
Table 5-18 SIP emission levels: Illinois Environmental Protection Agency; Project-related emissions levels: Environmental Science Associates, 2005.
Table 5-19 1990-2007 IEPA O’Hare-related estimates; Illinois Environmental Protection Agency; EIS project and total O’Hare-related emission estimates: Environmental Science Associates, 2005.
Table 5-20-21 SIP emission levels: Illinois Environmental Protection Agency; Project-related emissions levels: Environmental Science Associates, 2005.
Table 5-22 Environmental Science Associates, 2005.
Table 5-24 SIP emission levels: Illinois Environmental Protection Agency; Greatest Airport-related emissions levels: Environmental Science Associates, 2005.
Table 5-25 SIP emission levels: Illinois Environmental Protection Agency; Project-related emissions levels: Environmental Science Associates, 2005.

8.4.18 Appendix K, Water Quality Reference Documents

1. O’Hare NPDES Revised Permit Renewal Package Final Supplement from Kellie Rotunno, CDM, to Tom McSwiggin, IEPA, dated March 3, 2005.


Table K-4-5 NPDES Permit No. IL0002283, IEPA, November 19, 1996.
Table K-7 O’Hare Modernization Program Final Draft Report, CTE Engineers, Inc. [CCT], December 15, 2002.
Table K-8-14  Correspondence from Susan Chi, Illinois State Water Survey, to Peter Mulvaney, Montgomery Watson Harza, Groundwater Section, April 30, 2003; Regarding data from the groundwater quality database.

8.4.19  Appendix L, Department of Transportation Federal Aviation Administration Final Section 4(f) and Section 6(f) Evaluation Reference Documents

1. As part of an overall recodification of the DOT Act, Section 4(f) was amended and codified in 49 U.S.C. Section 303(c). Table L-1O’Hare Modernization Program Final Draft Report, CTE Engineers, Inc. [CCT], December 15, 2002.

2. 36 C.F.R. § 59.3

3. Section 4(f) of the DOT Act was recodified and renumbered as Section 303 (c) of 49 U.S.C. However, FAA Order 1050.1E continues to refer to section 4(f) as the policies engendered by this section are widely referred to as “Section 4(f)” matters (page A-19).


7. Letter from IHPA to Keeper of the NRHP, June 14, 2005.

8. Letter from IHPA to Keeper of the NRHP, June 24, 2005.


14. USEPA’s AirData: http://www.epa.gov/air/data/index.html


17. Federal Register, January 5, 2005: Air Quality Designations for the Fine Particles (particulate matter 2.5 microns or less in size) National Ambient Air Quality Standards; Final Rule.


20. 63 Federal Register 18068 (Monday, April 13, 1998).


25. 49 U.S.C. Section 303(c).


27. Letter from FAA to IHPA, June 2, 2005.


29. Village of Bensenville Park District, TPC Field Observations.

30. Village of Bensenville Park District, TPC Field Observations.


32. Letter from Keeper of the NRHP to the FAA, June 9, 2005.

33. Letter from IHPA to Keeper of the NRHP, June 14, 2005.

34. Letter from IHPA to Keeper of the NRHP, June 24, 2005.

35. Letter from FAA to Keeper of the NRHP, July 7, 2005.


37. Letter from FAA to IHPA, June 27, 2005.

38. Conversation between Karen Poulson (Archaeological Research Incorporated) and Steve Marshall Assistant Village Manager of Community Development, Village of Bensenville (June 20, 2004)


40. Letter from FAA to IHPA, June 24, 2005.


42. 36 C.F.R. § 59.3

43. Bensenville Park District and field observations.

44. Transcript from meeting between FAA and Representatives for St. John’s Church of Christ and Rest Haven Cemetery Association on July 22, 2004.

**Table L-3** Environmental Science Associates, Inc. [TPC] analysis, 2005.

**Table L-5** Environmental Science Associates, Inc. [TPC] analysis, 2005.

**Table L-6** TPC Analysis.
8.4.20 Appendix M, Historic, Architectural, Archaeological and Cultural Resources Reference Documents

1. Schwerdfeger Farmstead Determination of Eligibility, May 20, 2005
5. Letter from Keeper of the NRHP to the FAA, June 9, 2005.
7. Letter from IHPA to Keeper of the NRHP, June 24, 2005.
17. Letter from FAA to IHPA, June 24, 2005.

8.4.21 Appendix N, Biological and Water Resources Reference Documents

6. Biological Assessment, Environmental Assessment for Management of Hazards to Public Safety and Aircraft Caused by Wildlife at O'Hare International Airport, and Wildlife Hazard Management Plan for O'Hare International Airport, U.S. Department of Agriculture, 1993


22. The USDA website can be viewed at: www.na.fs.fed.us/spfo/alb/maps/Chicago/ohare.htm

23. The USDA website can be viewed at: www.na.fs.fed.us/spfo/alb/maps/Chicago/ohare.htm


33. Final Environmental Impact Statement for Chicago O'Hare International Airport, Federal Aviation Administration, 1984.


42. Transmittal letters to Steve Hamer, IDNR, and Mike Redmer, USFWS, from Peter Mulvaney, Montgomery Watson Harza, August 11, 2003.

45. Letter from Steve Hamer, IDNR, to Michael Boland, City of Chicago Department of Aviation, O’Hare Modernization Program Office, June 20, 2005.
47. Final Environmental Impact Statement for Chicago O’Hare International Airport, Federal Aviation Administration, 1984.


74. Chicago O’Hare International Airport, Draft Delineation of Wetland and Floodplains Areas, Harza Environmental Services, November 1999.


80. Final Environmental Assessment for the World Gateway Program and Other Capital Improvement Projects, Federal Aviation Administration, June 2002.


89. Chicago O'Hare International Airport, Draft Delineation of Wetland and Floodplains Areas, Harza Environmental Services, November 1999.

90. Chicago O'Hare International Airport, Delineation of Wetland and Floodplains Areas, Harza Environmental Services, February 2000.

91. Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers, 121 S. Ct. 675. 2001. The Supreme Court held that the Clean Water Act does not provide jurisdiction over isolated intrastate wetlands.


94. Letter from Keith Wozniak, USACE, to James Considine, City of Chicago Department of Aviation, October 28, 2002.

95. Chicago O'Hare International Airport, Delineation of Wetland and Floodplains Areas, Harza Environmental Services, February 2000.

96. Letter from Keith Wozniak, USACE, to Jim Considine, City of Chicago Department of Aviation, Re: Jurisdictional Determination on Wetlands and Waters of the U.S. October 6, 2001.


102. 17 IAC 3708, Floodway Construction in Northeastern Illinois.

103. O'Hare Modernization Program, Final Draft, CTE, December 15, 2002; Email with digital CADD files from Matt Cooper, CTE, to Amy Hanson, Landrum & Brown, February 14, 2003.


Table N-1-3 1995 data: Evaluation of Aquatic Habitat, Chicago O’Hare International Airport. R.V. Anderson, Western Illinois University, 1995.

2002 data: Sample Collection, Identification and Quantification Data, M. Headrick, Montgomery Watson Harza, October-November, 2002.


Table N-5 Chicago O’Hare International Airport, Delineation of Wetland and Floodplains Areas, Harza Environmental Services, February 2000.

Table N-6 Wildlife Hazard Management Plan, Chicago O’Hare International Airport, USDA, July 2002.


Table N-9 Letter from Keith Wozniak, USACE, to Jim Considine, City of Chicago Department of Aviation, Re: Jurisdictional Determination on Wetlands and Waters of the U.S, October 6, 2001; Chicago O’Hare International Airport, Delineation of Wetland and Floodplains Areas, Harza Environmental Services, February 2000.

Table N-10 (a) Letter from Keith Wozniak, USACE, to Jim Considine, City of Chicago Department of Aviation, Re: Jurisdictional Determination on Wetlands and Waters of the U.S., October 6, 2001. (b) Chicago O’Hare International Airport, Delineation of Wetland and Floodplains Areas, Harza Environmental Services, February 2000. Updated by MWH, 2004. (c) Approximately 4.6 acres of these wetlands were described by Harza as forested wetlands. However, the USACE has indicated that these wetlands do not meet their criteria for forested wetlands and these wetlands have been classified as scrub-shrub for purposes of analysis. (d) Letter from Keith Wozniak, USACE, to James Considine, City of Chicago Department of Aviation, Re: Jurisdictional Determination on Ditches, October 28, 2002.
Table N-11  Letter from Keith Wozniak, USACE, to Jim Considine, City of Chicago Department of Aviation, Re: Jurisdictional Determination on Wetlands and Waters of the U.S., October 6, 2001; Chicago O’Hare International Airport, Delineation of Wetland and Floodplains Areas, Harza Environmental Services, February 2000. Updated by MWH, 2004.

Table N-12  Crawford, Murphy, and Tilly, Inc. [TPC] analysis, September 2004. GIS Layers, Montgomery Watson Harza, January 2003

Table N-13-14 Letter from Keith Wozniak, USACE, to Jim Considine, City of Chicago Department of Aviation, Re: Jurisdictional Determination on Wetlands and Waters of the U.S., October 6, 2001

Table N-15  Chicago O’Hare International Airport Delineation of Wetland and Floodplain areas, Harza Environmental Services, February 2000. Chicago O’Hare International Airport Acquisition Area Survey, MHW [CCT], May 13, 2004.

Table N-16-17 Chicago O’Hare International Airport, Delineation of Wetland and Floodplains Areas, Harza Environmental Services, February 2000. Updated by MWH, 2004.

Table N-18  E-mail from Peter Mulvaney, Montgomery Watson Harza to Sara Hassert, Landrum & Brown, October 16, 2003.

Table N.1-1 Bird Strike Documentation at O’Hare International Airport, D. Arends, U.S. Department of Agriculture Animal and Plant Inspection Services, O’Hare International Airport. Data received by email January 6, 2003.

8.4.22 Appendix O, Solid and Hazardous Waste Reference Documents

Table O-1  Email from Marlene Velez, MACTEC, to Landrum & Brown [CCT], regarding location of Active Underground Storage Tanks at O’Hare International Airport, November 18, 2004.

Table O-2  Department of Aviation Underground Storage Tank Database, October 2003.

Table O-3  Department of Aviation Aboveground Storage Tank Database, September 2004.

Table O-4  U.S. Environmental Protection Agency CERCLA site database, Zip codes 60666, 60018, 60176, 60131, 60106, and 6007 querried, October 2004, http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm

Table O-5-6 Illinois Environmental Protection Agency SRP site database, Zip codes 60666, 60018, 60176, 60131, 60106, and 6007, queried October 2004, http://epadata.epa.state.il.us/land/srp/

Table O-7  Correspondence from Becky Heckman, Ricondo & Associates, Spill Data for 2001, December 4, 2002.

8.4.23 Appendix P, Environmental Justice Reference Documents

Table P-1-3 United States Census Bureau, 2000 Decennial Census, Block Data.

Table P-4-5 Poverty Thresholds; Department of Health and Human Services, United States Census Bureau, 2000 Decennial Census, 2004.
8.4.24 Appendix R, Alternate Considerations Reference Documents


Table R-1 2002 TAF, FAA; 2003 TAF, FAA; 2004 TAF, FAA.
Table R-2 2002 and 2003 TAF, Federal Aviation Administration.
Table R-3 Leigh Fisher Associates Analysis of DOT data.
Table R-4 TPC Analysis.
Table R-5 Leigh Fisher Associates Analysis.
Table R-6-7 Leigh Fisher Associates Inc., [TPC]

8.4.25 Appendix S, Scoping Documentation Reference Materials


8.4.26 Appendix T, Public Outreach and Agency Coordination Reference Documents


Table T-1 Crawford, Murphy and Tilly, Inc. [TPC] 2004.
### 8.5 LIST OF PREPARERS

The following table outlines individuals and agencies responsible for the preparation of this EIS.

#### TABLE 8-1 LIST OF PREPARERS

<table>
<thead>
<tr>
<th>Preparer</th>
<th>Title</th>
<th>Education/Registration</th>
<th>Years of Exp.</th>
<th>EIS Responsibility</th>
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<td><strong>Federal Aviation Administration (FAA)</strong></td>
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<tr>
<td>Tom Bennett</td>
<td>Environmental Specialist</td>
<td>BA History MS Political Science</td>
<td>32</td>
<td>Document Review for Compliance with FAA policy and guidance</td>
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<tr>
<td>Anne Christensen</td>
<td>Attorney</td>
<td>BS Biology BA Political Science MEM JD</td>
<td>2</td>
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<tr>
<td>Daphne Fuller</td>
<td>Assistant Chief Counsel, FAA</td>
<td>BA Sociology JD</td>
<td>17</td>
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<tr>
<td>Amy Hanson</td>
<td>Environmental Protection Specialist</td>
<td>BS Environmental Science</td>
<td>8</td>
<td>Noise, Floodplains, Historic Resources, EJ Analysis, Solid and Hazardous Materials, Biotic Communities, Surface Transportation, DOT 4(f)/Section 6(f), Technical Project Management</td>
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<tr>
<td>Richard Kula</td>
<td>Community Planner, Chicago Airports District Office</td>
<td>BS Aviation Administration, MPA Aviation Administration</td>
<td>13</td>
<td>Aviation Planning, Demand-Capacity Analysis, Noise Analysis, Forecasting</td>
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<tr>
<td>Michael MacMullen</td>
<td>Airports Environmental Program Manager</td>
<td>B.S. Biology</td>
<td>30</td>
<td>Air Quality, Wetlands, Water Quality, Public Outreach and EJ Coordination, Cooperating Agency Liaison</td>
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<tr>
<td>Suzan McCarthy</td>
<td>FAA, Air Traffic Program Lead</td>
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<td>Chuck Prock</td>
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<td>Philip M. Smithmeyer</td>
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<td>Ambra Deering</td>
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<td>Matt Demos</td>
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<td>Michael Doerfler</td>
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<td>Cassandra Gray</td>
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<td>Scott Noel</td>
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<td>Neil Ralston</td>
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<td>Laura Sakach</td>
<td>Project Engineer</td>
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<td>Lana Sumner</td>
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(*) CMT has extensive experience in developing construction cost estimates for hundreds of airports over many of its nearly 60 years of service. A large measure of this work was related to airfield improvements, whether rehabilitation or new construction.

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<tr>
<td>DeLonda Dowling</td>
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<td>BA Fine Arts 14</td>
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<td>Mary Floyd</td>
<td>Principal Analyst</td>
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<td>Rita Kapur</td>
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<td>David Keene</td>
<td>Senior Archaeologist</td>
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<td>Karen Poulson</td>
<td>Principal Investigator</td>
<td>BA Anthropology, MA Anthropology 12</td>
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<td>Riyaz Syed</td>
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<td>BS Agricultural Science, MS Environmental Toxicology, MS Environmental Engineering</td>
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<td>Michael Arnold</td>
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<td>David Full</td>
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<td>Mike Ratte</td>
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<td>Robert Vranka</td>
<td>Senior Technical Associate</td>
<td>BS Physics and Chemistry, PhD Chemical Physics</td>
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<td>Roberto Carmona</td>
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<td>MPA, MA Political BA</td>
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<td>Arturo Saenz</td>
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<td><strong>Harris Miller Miller &amp; Hanson (HMMH) – Third Party Contractor, Sub-Consultant</strong></td>
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<td>37 Principal-in-charge March 2004 through end of project</td>
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<td>Eugene M. Reindel</td>
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<tr>
<td>Dr. Richard de Neufville</td>
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<td>Dr. Chung Hsien Sung</td>
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<td>Associate Professor in Statistics BS, MS, PhD 18</td>
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<td>Xin Tian</td>
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<td>Carrol Bryant President BA Geography 26 Air quality project manager</td>
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<td>Leigh Fisher Associates (LFA) – Third Party Contractor, Sub-Consultant</td>
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<td>Eric Bernhardt Senior Associate BS Aviation Management 12 Review of noise modeling, assistance with alternatives analysis</td>
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<tr>
<td>Larry Coleman Senior Associate BS Environmental Design MCRP – City &amp; Regional Planning 24 Preparation of noise impact analysis and documentation</td>
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<td>William J. Dunlay Principal BS Civil Engineering MS Civil Engineering PhD Civil Engineering (Transportation) 39 Review of TAAM modeling results, assessment of airfield demand-capacity issues.</td>
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<tr>
<td>Peter B. Mandle Principal BS Civil Engineering MS Civil Engineering PE 32 Assisted Jacobs Civil by reviewing on-airport surface transportation analyses, methodologies, forecasts, and evaluation of future year alternatives.</td>
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8.6 LIST OF RECIPIENTS

The following lists indicate the individuals, agencies, and libraries to which the Final EIS, or portions thereof, was sent for review.

### 8.6.1 Federal Agencies

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(**) LFA has extensive experience assisting airport operators in the financing of airport improvements, and has prepared financial feasibility studies associated with over 250 airport bond issuances representing over $37 billion in airport bond debt.
8.6.2 State Agencies

Illinois Commerce Commission
Illinois Department of Agriculture
Illinois Department of Commerce and Economic Opportunity
Illinois Department of Natural Resources
Illinois Department of Transportation
Illinois Environmental Protection Agency
Illinois Historic Preservation Agency
Illinois State Toll Highway Authority
Illinois State Water Survey
Joint Action Water Agency
Northwestern Indiana Regional Planning Commission
Office of the Illinois Attorney General
School District 214
School District 234

8.6.3 Local Agencies and Organizations

Arlington Heights Chamber of Commerce
Association Forum of Chicago
Back of the Yards Business Association
Buffalo Grove Area Chamber of Commerce
Canadian Pacific Soo Line Railroad
Chicago Area Transportation Study
Chicago Central Area Committee
Chicago Convention and Tourism Bureau, Inc.
Chicago Department of Aviation
Chicago Department of Transportation
Chicago Development Council
Chicago Federation of Labor
Chicago Transit Authority
Chicagoland Chamber of Commerce
City of Chicago – Department of the Environment
City of Chicago – Department of Law
City of Chicago – Office of the Mayor
City of Chicago – Water Management Department
Civic Committee of the Commercial Club of Chicago
Cook County Board of Commissioners
Cook County Department of Planning and Development
Cook County Environmental Control
Des Plaines Civic Association
DuPage Convention and Visitor Bureau
DuPage County Chairman of the Board
DuPage County Department of Development and Environmental Concerns
DuPage County Division of Transportation
DuPage County Regional Planning Commission

Soil and Water Conservation District
Southeastern Wisconsin Regional Planning Commission
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<td>DuPage Mayors and Managers Conference</td>
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<td>Northeastern Illinois Planning Commission</td>
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<td>Joliet/Will County Center for Economic Development</td>
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<td>Schaumburg Business Association</td>
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<td>Will County Land Use Department</td>
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| City of Chicago Heights                                                   | City of Highland Park                                                     |
| City of Des Plaines                                                       | City of Hometown                                                           |
| City of Elgin                                                             | City of Lake Forest                                                       |
| City of Elmhurst                                                          | City of Naperville                                                        |
City of North Aurora  
City of Northbrook  
City of Northlake  
City of Oak Forest  
City of Park Ridge  
City of Rolling Meadows  
City of Round Lake  
City of St. Charles  
City of Villa Park  
City of Wheaton  
City of Wood Dale  
Village of Addison  
Village of Alsip  
Village of Arlington Heights  
Village of Bartlett  
Village of Batavia  
Village of Bellwood  
Village of Bensenville  
Village of Berkley  
Village of Bloomingdale  
Village of Bolingbrook  
Village of Broadview  
Village of Buffalo Grove  
Village of Calumet Park  
Village of East Hazel Crest  
Village of Elmwood Park  
Village of Elk Grove  
Village of Forest Park  
Village of Franklin Park  
Village of Glen Ellyn  
Village of Glendale Heights  
Village of Glenview  
Village of Green Oaks  
Village of Hanover Park  
Village of Harwood Heights  
Village of Hazel Crest  
Village of Hillside  
Village of Hoffman Estates  
Village of Homewood  
Village of Indian Head Park  
Village of Inverness  
Village of Itasca  
Village of Justice  
Village of La Grange Park  
Village of Lansing  
Village of Lombard  
Village of Lynwood  
Village of Maywood  
Village of Melrose Park  
Village of Merrionette Park  
Village of Morton Grove  
Village of Mount Prospect  
Village of Mundelein  
Village of New Lenox  
Village of Niles  
Village of Norridge  
Village of North Riverside  
Village of Oak Lawn  
Village of Oak Park  
Village of Palatine  
Village of Palos Hills  
Village of River Forest  
Village of River Grove  
Village of Roselle  
Village of Rosemont  
Village of Sauk Village
Village of Schaumburg   Village of Thornton
Village of Schiller Park  Village of Vernon Hills
Village of Skokie   Village of Western Springs
Village of Sleepy Hollow  Village of Wheeling
Village of Steger   Village of Willow Springs
Village of Stone Park  Village of Wilmette

8.6.5 Elected Officials

Rod Blagojevich, Governor of Illinois
Representative Judy Biggert, 13th District IL
Representative Jerry Costello, 12th District IL
Representative Melissa Bean, 8th District IL
Representative Danny Davis, 7th District IL
Representative Rahm Emanuel, 5th District IL
Representative Lane Evans, 17th District IL
Representative Luis Gutierrez, 4th District IL
Representative Dennis Hastert, 14th District IL
Representative Henry Hyde, 6th District IL
Representative Jesse Jackson, Jr., 2nd District IL
Representative Chris Chocola, 2nd District IN
Representative Gwendolynne Moore, 4th District WI
Representative James Sensenbrenner, Jr. 5th District WI
Representative Timothy Johnson, 15th District IL
Representative Mark Kirk, 10th District IL
Representative Ray LaHood, 18th District IL
Representative Daniel Lipinski, 3rd District IL
Representative Don Manzullo, 16th District IL
Representative Robert Molaro, 21st District IL
Representative Bobby Rush, 1st District IL
Representative John Shimkus, 19th District IL
Representative Jan Schakowsky, 9th District IL
Representative Jerry Weller, 11th District IL

Representative Peter Visclosky, 1st District IN
Representative Paul Ryan, 1st District WI
IL Senator Dick Durbin
IL Senator Barack Obama
IN Senator Evan Bayh
IN Senator Richard Lugar
WI Senator Russell Feingold
WI Senator Herb Kohl
Anazette Collins, House District 10
Larry McKeon, House District 13
Harry Osterman House District 14
Lou Lang, House District 16
William Delgado, House District 3
Richard Bradley, House District 40
Sandra Pihos, House District 42
Roger Jenisch, House District 45
Sidney Mathias, House District 53
John Millner, House District 55
Karen Yarbrough, House District 7
Deborah Graham, House District 78
Calvin Giles, House District 8
Suzanne Bassi, House District 54
Robert Biggins, House District 41
John D’Amico, House District 15
Lee Daniels, House District 46
8.6.6 Native American Tribal Groups

Absentee-Shawnee Executive Committee

Bad River Band of Lake Superior Chippewa Indians

Bay Mills Executive Council

Cherokee Nation

Citizen Band Potawatomi Business Committee

Cultural Resource Liaisons Iowa Tribe of Oklahoma

Delaware Executive Committee

Eastern Shawnee Tribe of Oklahoma

Fond du Lac Reservation Business Committee

Forest County Potawatomi Executive Council

Grand Portage Reservation Business Committee

Grand Traverse Tribal Council

Hannahville Indian Community Council

Huron Potawatomi, Inc.

Iowa of Kansas Executive Committee

Kaw Business Committee

Keweenaw Bay Tribal Council

Kickapoo of Kansas Tribal Council

Kickapoo of Oklahoma Business Committee

Kickapoo Traditional Tribe of Texas

Lac du Flambeau Band of Lake Superior Chippewa Indians

Lac Vieux Desert Band of Lake Superior Chippewa Indians

Leech Lake Tribal Council

Les Courte Orielles Governing Board (Chippewa)

Little River Band of Ottawa Indians

Little Traverse Bay Bands of Odawa Indians

Menominee Indian Tribe of Wisconsin

Miami Tribe of Oklahoma

Mille Lacs Band of Chippewa Indians

Minnesota Chippewa Tribe

Nett Lakd Reservation Tribal Council

Omaha Tribal Council

Osage Nation of Oklahoma

Otoe-Missouria Tribal Council

Ottawa Tribe of Oklahoma

Peoria Indian Tribe of Oklahoma
Pokagon Band of Potawatomi Indians of Michigan
Ponca Business Committee
Ponca Tribe of Nebraska
Prairie Band Potawatomi Tribal Council
Quapaw Tribal Business Committee
Red Cliff Band of Lake Superior Chippewa Indians
Red Lake Nation Library & Archives
Sac & Fox of Nation of Missouri Tribal Council
Sac & Fox of Oklahoma Business Council
Sac & Fox Tribe of the Mississippi in Iowa
Saginaw Chippewa Tribe
Sault Ste. Marie Tribe of Chippewa Indians
Sokaogon Chippewa Community Mole Lake Band
St. Croix Council
Turtle Mountain Tribal Council
United Keetoowah Band of Cherokee Indian
White Earth Band of Minnesota Chippewa
Winnebago Tribe of Nebraska
Wisconsin Winnebago Business Committee

8.6.7 Libraries

Arlington Heights Memorial Library, Arlington Heights, IL
Bellwood Public Library, Bellwood, IL
Bensenville Public Library, Bensenville, IL
Berkley Public Library, Berkley, IL
Bloomingdale Public Library, Bloomingdale, IL
College of DuPage Library, Glen Ellen, IL
Des Plaines Public Library, Des Plaines, IL
Eisenhower Public Library, Harwood Heights, IL
Elk Grove Village Public Library, Elk Grove Village, IL
Elmhurst Public Library, Elmhurst, IL
Elmwood Park Public Library, Elmwood, IL
Franklin Park Public Library, Franklin Park, IL
Glendale Heights Public Library, Glendale, IL
Glenview Public Library, Glenview, IL
Harold Washington Library, Chicago, IL
Hoffman Estates public Library, Hoffman Estates, IL
Itasca Community Library, Itasca, IL
Lombard Public Library, Lombard, IL
Maywood Public Library, Maywood, IL
Melrose Park Public Library, Melrose Park, IL
Morton Grove Public Library, Morton Grove, IL
Mount Prospect Public Library, Mount Prospect, IL
Niles Public Library, Niles, IL
Northlake Public Library, Northlake, IL
Oak Park Public Library, Oak Park, IL
Oakton Community College Library, Des Plaines, IL
Park Ridge Public Library, Park Ridge, IL
River Forest Public Library, River Forest, IL
River Grove Public Library, River Grove, IL
Schaumburg Public Library, Schaumburg, IL
Schiller Park Public Library, Schiller Park, IL
Villa Park Public Library, Villa Park, IL
Wood Dale Public Library, Wood Dale, IL
8.6.8 Miscellaneous

Air Cargo Association of Chicago
Airline Pilots Association International
Air Traffic Control Association, Inc.
Air Transport Association of America
Aircraft Owners and Pilots Association
Airline Parties’ Construction Representative
Airline Pilots’ Association
Alliance of Residents Concerning O’Hare, Inc.
Allied Pilots Association
American Association of Airport Executives
American Hotel Register Co.
Arlington Signs & Banners
Aurora Municipal Airport
Baxter International
BPC Airport Partners
Business Leaders for Transportation
Carolyn Grisko & Associates, Inc.
Carnow, Conibear & Assoc., Ltd.
Carpenters Local 181
Centerpoint Properties
Chicago and Cook County Building and Construction Trades Council
Chaddick Institute for Metropolitan Development
Chicago Architecture Foundation
CICA TEC
CICSO
ComEd
Consoer Townsend Envirodyne Engineers, Inc.
DuPage Airport Authority
DXSI
Environmental Law and Policy Center
FDC Corporation
Focus Logistics
Friends of Meigs Field
General Mitchell International Airport
Gennuso Financial Group
Greater Rockford Airport
Holland & Knight
HNTB
I.B.E.W. Local Union 134
Illinois Association of Railroad Passengers
Illinois Association of Realtors
Illinois Manufacturers Association
Illinois Rail
Illinois Restaurant Association
Inter City Rail
Ironworkers Local Union 63
Karaganis, White & Magel
Kimley Horn
Kranz Consulting
Landrum & Brown
Latin American Chamber of Commerce
Maine Township
Michael J. Donahue & Associates, Inc.
Michael Schneiderman Law Firm
Midwest High Speed Rail Coalition
National Air Traffic Controllers Association
National Air Transportation Association, Inc.
National Business Aircraft Association, Inc.
NCACI
North Business and Industrial Council
Northeast Illinois District Council of Carpenters
Northwest Airlines
Northwest Metro Transportation Management
Nutheme Company
O’Hare Modernization Program Project Management Office
O’Hare Noise Compatibility Commission
Palwaukee Municipal Airport
Peoples Energy
Perfection Machinery Sales
Regional Airline Association
Ricondo & Associates
Schneider Electric/Square D
Shaw Pittman, LLP
Sheet Metal Workers Union, Local 73

Shreiner Company
Snyder & Associates, Inc.
South Suburban Mayors and Managers Association
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Transwestern Commercial Services
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