

CHAPTER EIGHT

REFERENCE DOCUMENTATION

This Chapter consists of the following sections:

- 8.1 List of Abbreviations and Acronyms
- 8.2 Glossary
- 8.3 Environmental Laws and Regulations
- 8.4 Reference Documents
- 8.5 List of Preparers
- 8.6 List of Recipients
- 8.7 Index

8.1 LIST OF ABBREVIATIONS AND ACRONYMS

AACGR	Average Annual Compound Growth Rate	AGL	Above Ground Level OR FAA, Great Lakes Region
AADT	Annual Average Daily Traffic	AGI	Airport Group International
AAIA	Airport and Airway Improvement Act	AHERA	Asbestos Hazard Emergency Response Act
AC	Advisory Circular OR Asphalt Concrete	AIA	American Institute of Architects
ACF	Advanced Chemical Fingerprinting	AIP	Airport Improvement Program
ACHP	Advisory Council on Historic Preservation	AIR-21	Wendell Ford Aviation Investment & Reform Act for the 21 st Century
ACI	Airports Council International	AISC	American Institute of Steel Construction, Inc.
ADA	The Airline Deregulation Act of 1978	ALP	Airport Layout Plan
ADC	Animal Damage Control	ALPA	Air Line Pilots Association
ADG	Airport Design Group VI	ALS	Approach Light System
ADO	FAA Airports District Office	ALSF-2	High Intensity Approach Lighting System with Sequenced Flashers
AEM	Area Equivalent Method	AMC	Airport Maintenance Complex
AF	Airway Facilities Division, FAA	AN	Ammonia Nitrogen
AFTPro	Advanced Flight Track Procedures	ANCA	Airport Noise and Capacity Act

ANMS	Airport Noise Monitoring System	ATS	Airport Transit System at O'Hare
AOA	Aircraft Operations Areas	BA&H	Booz Allen & Hamilton
AOPA	Aircraft Owners and Pilots Association	BMP	Best Management Practices
APA	Allied Pilots Association	BCA	Benefit-Cost Analysis
APE	Area of Potential Effect	BOD	Biological Oxygen Demand
APM	Automated People Mover	BPR	Bureau of Public Roads
APO	FAA Office of Aviation Policy and Plans	BRAC	Base Realignment and Closure
APU	Auxiliary Power Unit	BRL	Building Restriction Line
AQIMs	Air Quality Improvement Measures	CAA	1970 Clean Air Act
AQIP	Air Quality Improvement Program	CAAA	1990 Clean Air Act Amendments of 1990
ARFF	Aircraft Rescue and Firefighting	CAAP	Clean Air Act Permit Program
ARM	Ambient Ratio Method	CAT I	Category I Instrument Landing System
ARSR	Air Route Surveillance Radar	CAT II	Category II Instrument Landing System
ARTCC	Air Route Traffic Control Center	CAT III	Category III Instrument Landing System
ARTS	Automated Radar Terminal System	CATS	Chicago Area Transportation Study
ASDE	Airport Surface Detection Equipment	CBD	Central Business District
ASNA	Aviation Safety and Noise Abatement Act of 1979	CBRA	Coastal Barrier Resources Act
ASPM	Aviation System Performance Metrics	CDL	Construction, Demolition, and Land Clearing Waste
ASR	Airport Surveillance Radar	CDM	Camp, Dresser, and McKee
AST	Aboveground Storage Tank	CDOT	Chicago Department of Transportation
AT	Air Traffic Division, FAA	CE	Categorical Exclusion
ATA	Air Transport Association	CEQ	Council on Environmental Quality
ATADS	Air Traffic Activity Data System	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
ATC	Air Traffic Control		
ATCT	Airport Traffic Control Tower		
ATL	Atlanta Hartsfield-Jackson International Airport		

CERCLIS	Comprehensive Environmental Response, Compensation, and Liability System, also known as Superfund	CWA	Clean Water Act
CFFP	Clean Fuel Fleet Program	CWE	Clean World Engineering
CFO	Central Field Office	CWF	Cubic/Weight Factor
CFR	Code of Federal Regulations	cy	Cubic Yards
cfs	Cubic Feet per Second	CZMA	Coastal Zone Management Act
CGX	Chicago-Meigs Airfield	CZMP	Coastal Zone Management Program
C.I. Report	Construction Impacts Technical Working Report	dB	Decibels
CLE	Cleveland-Hopkins International Airport	dba	Decibels, A-weighted
CLOMR	Conditional Letter of Map Revision	DCFPD	DuPage County Forest Preserve District
CMS	Congestion Management System	DEA	Draft Environmental Assessment
CMSA	Consolidated Metropolitan Statistical Area	DEIS	Draft Environmental Impact Statement
CMT	Crawford, Murphy, and Tilly	DME	Distance Measurement Equipment
CO	Carbon Monoxide	DNL or Ldn	Day-Night Average Sound Level
CP	Canadian Pacific Rail	DO	Dissolved Oxygen
CPI	Consumer Price Index	DOA	City of Chicago Department of Aviation
CTA	Chicago Transit Authority	DOE	U.S. Department of Energy
CTAP	Chicago Terminal Airspace Project	DOI	U.S. Department of the Interior
CTAS	Center/TRACON Automation System	DOT	U.S. Department of Transportation
CTE	Consoer, Townsend, Envirodyne Engineers, Inc.	DOWR	Division of Water Resources
CTPP	Census Transportation Planning Package	DTW	Detroit Metropolitan-Wayne County Airport
CVG	Cincinnati/Northern Kentucky International Airport	EA	Environmental Assessment
CVHA	Commercial Vehicle Holding Area	EAV	Equalized Assessed Valuation
CVIA	Construction Vehicle Inspection Areas	EDCT	Expected Departure Clearance Time
		EDMS	Emission Dispersion Modeling System
		EED	European Economic Community

EFH	Essential Fish Habitat	FMS	Flight Management System
EIS	Environmental Impact Statement	FMUECP	Federal Motor Vehicle Emissions Control System
EMF	Electromagnetic Fields	FMV	Fair Market Value
EO	Executive Order	FONSI	Finding of No Significant Impact
EOE	Elgin-O'Hare Expressway	FOST	Finding of Suitability to Transfer
EPS	Elevated Parking Structure	FPPA	Federal Farmland Protection Policy Act
ESA	Endangered Species Act OR Environmental Site Assessment	FR	Federal Register
ESPA	Endangered Species Protection Act of Illinois	FS	Flight Standards Division, FAA
ETMS	Enhanced Traffic Management System	FTA	Federal Transit Administration, U.S. Department of Transportation
F&E	Facilities and Equipment	FWS	U.S. Fish & Wildlife Service, see also USFWS
FAA	Federal Aviation Administration	GA	General Aviation
FAR	Federal Aviation Regulation	GAO	General Accounting Office, FAA
FBO	Fixed Based Operator	GARB	General Airport Revenue Bonds
FCC	Federal Communication Commission	GATT	General Agreement on Trade and Tariffs
FEA	Final Environmental Assessment	GDP	Gross Domestic Product
FEIS	Final Environmental Impact Statement	GIS	Geographical Information System
FEMA	Federal Emergency Management Agency	GLC	Great Lakes Corridor
FHWA	Federal Highway Administration	GLR	Great Lakes Region, FAA
FIA	Federal Flood Insurance Administration	GNP	Gross National Product
FICAN	Federal Interagency Committee on Aircraft Noise	GNSS	Global Navigation Satellite System
FICON	Federal Interagency Committee on Noise	GPS	Global Positioning System
FICUN	Federal Interagency Committee on Urban Noise	GS	Glide Slope
FIS	Federal Inspection Services	GSE	Ground Service Equipment
		GY	Gary/Chicago Airport
		HABS	Historic American Building Survey

HC	Hydrocarbons	IHPA	Illinois Historic Preservation Agency
HCM	Highway Capacity Manual	ILEAV	Inherently Low-Emission Report Vehicle
HDR	High Density Rule	ILS	Instrument Landing System
H & R	Heating and Refrigeration	IMC	Instrument Meteorological Conditions
HIRL	High Intensity Runway Lights	INAI	Illinois Natural Area Inventory
HMMH	Harris Miller Miller and Hanson	INM	Integrated Noise Model
HR&A	Hamilton Rabinovitz & Alschuler, Inc.	INS	Immigration and Naturalization Services
HSGT	high-speed ground transportation	ISTEA	Intermodal Surface Transportation Efficiency Act
HSWA	Hazardous and Solid Waste Amendments	ISTHA	Illinois State Toll Highway Authority
HUD	U. S. Housing and Urban Development	ISWS	Illinois State Water Survey
HVAC	Heating Ventilation and Air Conditioning	ITE	Institute of Transportation Engineers
IAC	Illinois Administrative Code	IUP	Independent Utility Projects
IAP	Inaugural Airport Program	JAWA	Joint Action Water Agency
ICAO	International Civil Aviation Organization	KHA	Kimley-Horn and Associates, Inc.
IDEM	Indiana Department of Environmental Management	LAHSO	Land and Hold Short Operations
IDNR	Illinois Department of Natural Resources	LAWCON	Land and Water Conservation
IDNR-OWR	Illinois Department of Natural Resources – Office of Water Resources	LDA	Landing Distance Available
IDOT	Illinois Department of Transportation	LDPT	Lower Des Plaines Tributaries Study
IDP	Integrated Design Plan	Ldn or DNL	Day-Night Average Sound Level
IDS	Intersection Design Study	Leq	Equivalent Sound Level
IEMA	Illinois Emergency Management Agency	Lmax	Maximum Level
IEPA	Illinois Environmental Protection Agency	LOI	Letter of Intent Application
IFR	Instrument Flight Rules	LORAN	Long Range Navigation
		LOS	Level of Service
		LTO	Landing and Takeoff Cycle

LUST	Leaking Underground Storage Tank	MWRDGC	Metropolitan Water Reclamation District of Greater Chicago
MALS	Medium Intensity Approach Lighting System	MWX	Great Lakes Midwest Expansion
MALSF	Medium Intensity Approach Light System with Sequential Flashing Lights	NAAQS	National Ambient Air Quality Standards
MALSR	Medium Intensity Approach Light System with Runway Alignment Indicator Lights	NAFTA	North American Free Trade Agreement
MARS	Midwest Archaeological Research Services, Inc.	NAR	National Airspace Redesign
MBI	Macroinvertebrate Biotic Index	NARI	Natural Areas Rating Index
MBTA	Migratory Bird Treaty Act	NAS	National Airspace System
MCY	Million Cubic Yards	NAS Plan	National Airports System Plan
MDW	Chicago-Midway Airport	NASA	National Aeronautics and Space Administration
mg/L	Milligrams per Liter	NATCA	National Air Traffic Controllers Association
MGP	maximum gross payload	NB	Narrowbody operations
MIRL	Medium Intensity Runway Lights	NBAA	National Business Aircraft Association
MITL	Medium Intensity Taxiway Lights	NBEG	Narrow Body Equivalent Aircraft Gate
MKE	General Mitchell International Airport	NDB	Non-directional Beacon
MLS	Microwave Landing System	NEA	National Endowment for the Arts
MM	Middle Marker	NEPA	National Environmental Policy Act
MOA	Memorandum of Agreement	NESHAP	National Emission Standards for Hazardous Air Pollutants
MPO	Metropolitan Planning Organization	NFR	No Further Remediation
MSA	Metropolitan Statistical Area	NFRAP	No Further Remediation Action Planned
MSL	Mean Sea Level	NHPA	National Historic Preservation Act
MSP	Minneapolis-St. Paul International Airport	NIPC	Northeastern Illinois Planning Commission
MS4s	Municipal Separate Storm Sewer Systems	NIRS	Noise Integrated Routing System
MWRD	Metropolitan Water Reclamation District		

NIST	National Institute of Science and Technology	OAG	Official Airline Guide
NLA	New Large Aircraft	OCC	O'Hare Command Center
NLR	Noise Level Reduction	ODALS	Omni-directional Airport Lighting System
nm	Nautical miles	OEP	Operational Evolution Plan
NO	Nitric Oxide	OFA	Object Free Area
NO₂	Nitrogen Dioxide	OM	Outer Marker
NOAA	National Oceanic and Atmospheric Administration	ONCC	O'Hare Noise Compatibility Commission
NO_x	Nitrogen Oxides	ORD	Chicago-O'Hare International Airport
NOI	Notice of Intent	OSHA	Occupational Safety & Health Administration
NONROAD	Non-road Engine and Vehicle Emission Study	OSIG	O'Hare School Impact Group
NOTAM	Notice to Airmen	PA	Public Address
NPA	National Planning Association Data Services, Inc.	PAH	Polycyclic Aromatic Hydrocarbons
NPD	Noise-power-distance	PAMS	Photochemical Assessment Monitoring Station
NPIAS	National Plan of Integrated Airport Systems	PAPI	Precision Approach Path Indicator System
NPRM	Notice of Proposed Rulemaking	Pb	Lead
NPDES	National Pollution Discharge Elimination Program	PBL	Planetary Boundary Layer
NPS	National Park Service	PCA	Pre-conditioned Air
NRCS	U.S. Natural Resources Conservation Service	PCB	Polychlorinated Biphenyl
NRHP	National Register of Historic Places	PCC	Portland Cement Concrete
NRI	Nationwide Rivers Inventory	PCPI	per capita personal income
NSR	New Source Review	PFC	Passenger Facility Charge
NTSB	National Transportation Safety Board	PIN	Property Identification Number
NWI	National Wetland Inventory	PIT	Pittsburgh International Airport
NWS	National Weather Service	PM	Particulate Matter
O&D	Origin and Destination	PM₁₀	Particulate Matter, 10 microns or smaller in diameter
O&M	Operations and Maintenance	PM_{2.5}	Particulate Matter, 2.5 microns or smaller in diameter
O₃	Ozone	PMAD	Peak month, average day

POM	Polycyclic Organic Matter	SCS	U.S. Soil Conservation Service
PPE	Personal Protective Equipment	SDWA	Safe Drinking Water Act
ppm	Parts per million	SEL	Sound Exposure Level
PPP	Pollution Prevention Plan	SF	Square Feet
PRM	Precision Runway Monitors	SHPO	State Historic Preservation Office or Officer
RDF	Runway deicing fluid	SHRP	State Register of Historic Places
R/W	Runway	SID	Standard Instrument Departure
RAILS	Runway Alignment Indicator Lighting System	SIMMOD	Airspace and Airport Simulation Model
RCRA	Resource Conservation and Recovery Act	SIP	State Implementation Plan
REIL	Runway End Identifier Lights	SMA	Surface Movement Advisor
REMI	Regional Econometric Model	SMGCS	Surface Management Guidance and Control System
RFD	Greater Rockford Airport	SO₂	Sulfur dioxide
RJ	Regional Jets	SO_x	Sulfur oxides
ROD	Record of Decision	SOIR	Simultaneous Operations on Intersecting Runways
ROFA	Runway Object Free Area	SPCC	Spill Prevention Control and Countermeasures
ROPP	Rate-of-Progress Plan	SRP	Site Remediation Program
ROW	Right-of-way	SSA	South Suburban Airport
RPC	Regional Planning Commissions	SSIP	School Sound Insulation Program
RPM	Revenue Passenger Miles	STAR	Standard Terminal Arrival Route
RPZ	Runway Protection Zone (formerly called a clear zone)	SWCD	Soil and Water Conservation District
RSA	Runway Safety Area	SWPPP	Storm Water Pollution Prevention Plan
RSIP	Residential Sound Insulation Program	TA	Time Above
RTA	Regional Transportation Authority	TAAM	Total Airspace and Airport Modeller
RTP	Regional Transportation Plan	TAF	Terminal Area Forecast
RT/R	Remote Transmitter/Receiver	TARP	Tunnel and Reservoir Plan
RVR	Runway Visual Range	TAZ	Traffic Analysis Zone
SARA	Superfund Amendments and Reauthorization Act		
SARS	Severe Acute Respiratory Syndrome		

TCM	Transportation Control Measure	USDOT	U.S. Department of Transportation
TDM	Transportation Demand Management	USEPA	U.S. Environmental Protection Agency
TDML	Total Maximum Daily Load	USFWS	U.S. Fish and Wildlife Service
TDZ	Touchdown Zone	USPS	U.S. Postal Service
TEA-21	Transportation Equity Act for the 21 st Century	UST	Underground Storage Tank
TERPS	Terminal Instrument Procedures	V/C	Volume to capacity
THPO	Tribal Historic Preservation Officer	VALE	Voluntary Airport Low Emission program
TIP	Transportation Improvement Program	VASI	Visual Approach Slope Indicator
TMDL	Total Maximum Daily Load	VFR	Visual Flight Rules
TODA	Takeoff Distance Available	VMC	Visual Meteorological Conditions
TORA	Takeoff Run Available	VMT	vehicle-miles traveled
TRACON	Terminal Radar Approach Control	VOC	Volatile Organic Compounds
tpy	tons per year	VOR	Very High Frequency (VHF) Omni-directional Range
TSA	Transportation Security Administration	VORTAC	VHF Omni-directional Range with Tactical Air Navigation
TSCA	Toxic Substances Control Act	WB	Western By-Pass
µg/m³	Micrograms per cubic meter	WB	Widebody operations
UAL	United Airlines	WGP	World Gateway Program
UP-NW	Union Pacific – Northwest	WHMP	Wildlife Hazard Management Plan
UPS	United Parcel Service	WHO	World Health Organization
USC	U.S. Code	WMX	Waste Management, Inc.
USACE	U.S. Army Corps of Engineers	WUS	Waters of the United States
USDA	U.S. Department of Agriculture		

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 align 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.

Airport Noise and Capacity Act of 1990, 49 U.S.C. 2101 et seq.

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

Archaeological and Historic Preservation Act of 1974, 16 U.S.C. §470

Asbestos Hazard Emergency Response Act, 15 U.S.C. §2641

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

Coastal Barrier Resources Act of 1982, 16 U.S.C. §3501 et seq., as amended by the Coastal Barrier Improvement Act of 1990 16 U.S.C. §3503.

Coastal Zone Management Act Of 1972, 16 U.S.C. §1451-1464 as amended through P.L. 104-150, The Coastal Zone Protection Act of 1996

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

Endangered Species Act of 1973, 16 U.S.C. §1531

Farmland Protection Policy Act of 1981, 7 U.S.C. §4201

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

National Environmental Policy Act of 1969 42 U.S.C. §4321

National Historic Preservation Act of 1966, Section 106, 16 U.S.C. §470

1966 National Historic Preservation Act Amendments Section 106, 16 U.S.C. §470

1992 National Historic Preservation Act Amendments Section 106, 16 U.S.C. §470

2004 National Historic Preservation Act Amendments Section 106, 16 U.S.C. §470

Noise Control Act of 1972, 49 U.S.C. 44715

Pollution Prevention Act of 1990

Safe Drinking Water Act of 1974, 43 U.S.C. §300f

1986 Safe Drinking Water Act Amendments, 43 U.S.C. §300f

1996 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

Toxic Substances Control Act of 1976, 15 U.S.C. §2601

Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970

Water Quality Act of 1987, 33 U.S.C. §1251

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

29 CFR Parts 1910.1200, 1910.134, 1926.58, 1910.1001, Occupational Safety and Health Administration, Health Hazard Definitions

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

FAA Order, Docket FAA-2004-16944, Order Limiting Scheduled Operations, January 21, 2004

FAA Order 5100.37A – Land Acquisition and Relocation Assistance for Airport Projects

USDA Airport and Maritime Operations Manual, implementing 9 CFR 94.5 and 7 CFR 330.400

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
3. Airports Council International Website, <http://sezame.aci.aero/>, July 2004.
4. FAA OPSNET, November 2004.
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.
6. Final Environmental Impact Statement, Chicago O'Hare International Airport, U.S. Department of Transportation, Federal Aviation Administration, May 1984.
7. Federal Facility Site Information O'Hare Naval Reserve Station. U.S. EPA. Website, <http://www.epa.gov/swerffrr/ff/ohareNRS.htm/>. August 5, 2003.
8. FAA Record of Decision, Chicago O'Hare International Airport Master Plan, November 14, 1984.

9. Airport Capacity Benchmark Report 2001, U.S. Department of Transportation, Federal Aviation Administration, Website, <http://www.faa.gov/events/benchmarks/download.htm>.
10. Air Traffic Congestion and Capacity in the Chicago, Illinois Region and its effects on the National Air Traffic System, Field Hearing before the Committee on Commerce, Science, and Transportation, United States Senate, 107th Congress, First Session, June 15, 2001.
11. "One more time: Close the deal", Chicago Tribune article, pg. 26, December 5, 2001.
12. O'Hare Modernization Act, Illinois Public Act 93-0450, August 6, 2003.
13. Final Environmental Assessment, World Gateway Program, June 2002; Finding of No Significant Impact/Record of Decision, Federal Aviation Administration, June 21, 2002.
14. Section 2.4, Final Environmental Assessment, World Gateway Program, June 2002.
15. United Airlines' testimony before the U.S. Department of Transportation Federal Aviation Administration Hearing concerning Operating Limitations at Chicago O'Hare International Airport, Docket FAA-2004-16944, August 13, 2004.
16. Letter from City of Chicago to FAA, September 11, 2002.
17. Final Environmental Impact Statement for the Proposed Chicago Terminal Airspace Project (CTAP) U.S. Department of Transportation, Federal Aviation Administration, August 2001.
18. Record of Decision for the Proposed Chicago Terminal Airspace Project (CTAP), U.S. Department of Transportation, Federal Aviation Administration, November 2, 2001.
19. Delay Reduction Efficiency Enhancement Final Report, Chicago Delay Task Force, April 1991.
20. 2001 O'Hare Delay Task Force, Final Reports, April 2002, and Executive Summary, June 21, 2002.
21. Airport Capacity Benchmark Report 2001, U.S. Department of Transportation, Federal Aviation Administration, Website, <http://www.faa.gov/events/benchmarks/download.htm>.
22. Airport Capacity Benchmark Report, U.S. Department of Transportation, Federal Aviation Administration, The MITRE Corporation Center for Advanced Aviation System Development, October 2004.
23. United States Court of Appeals, Seventh Circuit, Suburban O'Hare Commission, et al., Petitioners, v. Elizabeth Hanford DOLE, Secretary of the Department of Transportation, et al., Respondents. No 85-1073, 787 F. 2d 186 (1986).
24. Lake Calumet Airport – Crossroads of the nation...future of the region. (11"x17" Report) Summary document of the Lake Calumet Feasibility Study Update. Undated.
25. Airport systems, planning, design, and management, R. de Neufville and A Odoni, McGraw-Hill 2003, page 134.
26. Airport systems, planning, design, and management, R. de Neufville and A Odoni, McGraw-Hill 2003, page 132.
27. The Notice of Availability for the Gary/Chicago International Airport Record of Decision, FAA, Federal Register, Volume 70, Number 56, March 24, 2005.
28. Record of Decision for Tier 1: FAA Site Approval and Land Acquisition by the State of Illinois, Proposed South Suburban Airport, U.S. Department of Transportation, Federal Aviation Administration, July 12, 2002.

29. Notice of Intent to Prepare a Tiered Environmental Impact Statement and Conduct Environmental Scoping for the Construction and Operation of Inaugural Airport Facilities by the State of Illinois for the South Suburban Airport, Federal Register, Volume 68, Number 208, October 28, 2003.
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
31. Airports Council International Website, http://sezame.aci.aero/cda/aci/display/main/aci_content.jsp?zn=aci&cp=1-5-54-57-201_9_25, July 2004.
32. Estimated using U.S. DOT Bureau of Transportation Statistics T-100 data for calendar year 2002.
33. U.S. Department of Transportation T-100 Onboard Database.
34. FAA Air Traffic Activity Data System (ATADS), May 25, 2005.
35. Terminal Area Forecast Summary - Fiscal Years 2002-2020, FAA, April 2003.
36. Letter from FAA to City of Chicago re: Use of FAA's 2002 Terminal Area Forecast for Planning Purposes and Reaffirmation of Derivative Forecast Methodology, August 21, 2003.
37. Letter from M. Williamsen, IDOT and K. Freidheim, City of Chicago to Northeast Illinois Planning Commission, November 4, 2002.
38. Letter from P. Smithmeyer, FAA to K. Freidheim, City of Chicago. October 24, 2001.
39. Chicago Airport System Forecast, City of Chicago Department of Aviation, June 1998.
40. Letter from P. Smithmeyer, FAA to C. Cochrane, IDOT re: Concurrence of SSA Forecasts, June 4, 2004.
41. The O'Hare Modernization Program Airfield Service Road Traffic Study Draft Report, Ricondo & Associates, Inc. [CCT] November 2003.
42. The O'Hare Modernization Program [Drainage and Utility Infrastructure Study] Final Draft, Consoer Townsend Envirodine Engineers, [CCT] December 15, 2002.
43. The O'Hare Modernization Program North Airport Traffic Control Tower Site Selection Study Final Report, Ricondo & Associates, Inc. [CCT] September 12, 2003.
44. O'Hare International Airport Master Plan, Page VII-28, February 2004.
45. Multi-Year Commitment of Airport Improvement Program Grant-in Aid Funding, March 1, 2004, Updated February 2005.
46. Press Release: City of Chicago Selects Lead Engineering Design Task Order Teams for Phase One - O'Hare Modernization Program, November 12, 2003.

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 Letter from IDOT and City of Chicago to Northeast Illinois Planning Commission., November 4, 2002.

Table 1-5	Chicago Airport System Forecast, City of Chicago – Department of Aviation, June 1998; FAA 2002 TAF.
Table 1-6	Projections of Aeronautical Activity for the South Suburban Airport, Prepared by TAMS, and Earth Tech Company, The al Chalabi Group, Ltd., Global Insight, Inc., L.E.K. Consulting, Preliminary Draft, May 11, 2004.
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 1-11	Original Cost Estimate: O'Hare International Airport Master Plan, City of Chicago, February 2004. Escalation Multipliers: R.S. Means Square Foot Costs, 1999, 2001, 2004, and Heavy Construction Cost Data, 1999, 2001, 2004, except as noted in footnote (e).
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

1. National Airspace System Operational Evolution Plan 2004-2014, FAA, January 2004.
2. FAA Order Limiting Scheduled Operations, Docket FAA-2004-16944, January 2004.
3. Leigh Fisher Associates [TPC] analysis of FAA ASPM Data, March 2004.
4. Airport Systems, Planning, Design, and Management, R. de Neufville and A Odoni, McGraw-Hill 2003, page 134.
5. Airport Systems, Planning, Design, and Management, R. de Neufville and A Odoni, McGraw-Hill 2003, page 132.
6. Order Limiting Scheduled Operations, FAA Docket FAA-2004-16944, January 21, 2004.
7. Leigh Fisher Associates [TPC] analysis of FAA ASPM data, November 2004.
8. Leigh Fisher Associates [TPC] analysis of FAA ASPM data, November 2004.
9. Leigh Fisher Associates [TPC] analysis of FAA ASPM data, November 2004.
10. Leigh Fisher Associates [TPC] analysis of FAA ASPM data, November 2004.
11. National Plan of Integrated Airport Systems (NPIAS) 1993-1997, FAA, April 7, 1995.
12. National Plan of Integrated Airport Systems (NPIAS) 1993-1997, FAA, April 7, 1995.
13. National Plan of Integrated Airport Systems (NPIAS) 1993-1997, FAA, April 7, 1995; NPIAS 1998-2002, FAA, March 12, 1999; NPIAS 2001-1005, FAA, August 28, 2002; NPIAS 2005-2009 Report to Congress, FAA, September 30, 2004.
14. Integrated Design Plan National Airspace Redesign, FAA-Great Lakes Region, January 2003.
15. National Airspace System Operational Evolution Plan 2004-2014, FAA, January 2004.
16. Flight Plan 2005-2009, FAA.
17. Order Limiting Scheduled Operations, FAA Docket FAA-2004-16944-1, January 21, 2004. See Attachment A-4 in **Appendix A**.

18. Order Limiting Scheduled Operations, FAA Docket FAA-2004-16944-1, January 21, 2004. See Attachment A-4 in **Appendix A**.
19. National Plan of Integrated Systems (NPIAS) 2005-2009 Report to Congress, September 30, 2004.
20. Flight Plan 2005-2009, FAA.
21. Order Limiting Schedule Operations, Amendment No. 1, FAA Docket FAA-2004-16944-3, April 21, 2004. See Attachment A-4 in **Appendix A**.
22. Order Limiting Schedule Operations, FAA Docket FAA-2004-16944-55, August 18, 2004. See Attachment A-1 in **Appendix A**.
23. Order Limiting Schedule Operations, FAA Docket FAA-2004-16944-55, August 18, 2004. See Attachment A-11 in **Appendix A**.
24. FAA letters to Gary, Indiana and Rockford, Illinois dated August 24, 2004. See Attachments A-12 and A-13 in **Appendix A**.
25. Leigh Fisher Associates, Inc. [TPC] based on DOT databases: Passenger Origin and Destination Survey Database, T-100 Onboard Database, USDOT 298(c) Enplanement Database.
26. Ricondo and Associates, Inc. [CCT], Draft TAAM Simulation Data for Noise and Air Quality Analysis – [Existing Airfield 2002], Table I-10, ORD Arrival Pre-departure Ground Delay at ORD, January 2004; Leigh Fisher Associates [TPC] estimate of an average cost of approximately \$25 per minute of delay computed using aircraft operating cost data from U.S. Department of Transportation Form 41 filings for Calendar Year 2003.
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.
28. Ricondo and Associates, Inc. [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – [Existing Airfield 2002], January 2004.
29. Ricondo and Associates, Inc. [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – [Existing Airfield 2002], Table I-10, ORD Arrival Pre-departure Ground Delay at ORD, January 2004.
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.
31. Airbus Industries, Website: http://www.airbus.com/media/a380_family.asp, March 22, 2004.
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.
39. O'Hare Modernization Act, Illinois Public Act 93-0450, August 6, 2003.
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 2-1	FAA; Ricondo and Associates, Inc. [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – [Existing Airfield 2002], January 2004..
Table 2-2	FAA OPSNET, November 2004.
Table 2-3	Leigh Fisher Associates [TPC] Analysis, FAA ASPM Data, November 2004.
Table 2-4	TPC Analysis of FAA ASPM Data, December 2004.
Table 2-5	Ricondo and Associates, Inc.[CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – [Existing Airfield 2002], January 2004; Ricondo and Associates, Inc, [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2007 No Action, July 2004; Ricondo and Associates, Inc.[CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2009 No Action, July 2004; Ricondo and Associates, Inc.[CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2013 No Action, July 2004; Ricondo and Associates, Inc. [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2018 No Action, July 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
2. FAA Record of Decision, World Gateway Program, June 2002.
3. Airport Capacity Benchmark Report 2004, FAA.
4. O'Hare International Airport Master Plan, City of Chicago, February 2004.
5. O'Hare International Airport Master Plan, Page IV-26, City of Chicago, February 2004.
6. O'Hare International Airport Master Plan, Page IV-27, City of Chicago, February 2004.
7. O'Hare International Airport Master Plan, Table IV-10, Page IV-28, City of Chicago, February 2004.
8. <http://www.dot.gov/affairs/fra201.htm>
9. SOC v. Dole, 787 F.2d 186,196 (1986).
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*.

12. FAA Order 5050.4A, Airport Environmental Handbook, Paragraph 83b, October 8, 1985.
13. Discussion Outline – OMP Advisory Session, Runway 12/30, “Proof of Concept” Evaluation, Ricondo and Associates, Inc. [CCT], September 11, 2003.
14. Discussion Outline – OMP Advisory Session, Runway 12/30, “Proof of Concept” Evaluation, Ricondo and Associates, Inc. [CCT], September 11, 2003.
15. Final Environmental Assessment for the Upgrade of Runways 27L and 27R to a Category II/III Instrument Landing System. FAA, October 1, 2004.
16. FAA Order ORD 7110.118, Land and Hold Short Operations (LAHSO), February 9, 2001.

Table 3-2 Airports Council International, December 2004.

Table 3-5 Federal Aviation Administration.

Table 3-7 National Oceanic & Atmospheric Administration Survey, September 2002.

Table 3-8-10 Draft Airport Layout Plan, October 2003; National Oceanic & Atmospheric Administration Survey, September 2002.

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.
2. Ecoregions of the Upper Midwest States, J. M. Omernik and A.L. Gallant, U.S. Environmental Protection Agency Report No. EPA/600/3-88/037, September 1988.
3. Guide to the Vascular Flora of Illinois, R.H. Mohlenbrock, Southern Illinois University Press, 1986.
4. Letter from Keith Wozniak, USACE, to James Considine, City of Chicago Department of Aviation. October 28, 2002.
5. Letter from Keith Wozniak, USACE, to James Considine, City of Chicago Department of Aviation. October 28, 2002.

Table 4.3-1-2 2000 Information: Census 2000 Summary File 1, 100-Percent Data; 2020 Information: Northeastern Illinois Planning Commission, 2003; Website, http://www.nipc.cog.il.us/revised_2020_table.htm.

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

1. Letter from Rosemarie Andolino, City of Chicago, to Barry Cooper, FAA, December 20, 2004.
2. Letters from FAA to City of Chicago Department of Aviation dated December 5, 2001, August 19, 2002, and May 28, 2003.

3. St. John's United Church of Christ et. al. v. City of Chicago et. al. in the United States District Court for the Northern District of Illinois Eastern Division, Case No. 03-C-3726, July 10, 2003.

8.4.5.2 Section 5.1 Noise

Table 5.1-1 Housing and Population database: City of Chicago; 2002 Contour: Landrum & Brown, Inc. [CCT]; Land Use, Noise Sensitive Facilities, Population and Housing data: TPC Analysis, July 2005.

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.

Table 5.1-6-18 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.

8.4.5.3 Section 5.2 Compatible Land Use

1. City of Chicago School Sound Insulation Program Website:
http://www.ohare.com/cnrc/ohare/o_noise_school.shtm. (December 14, 2004).
2. City of Chicago Residential Sound Insulation Program Website:
<http://www.ohare.com/cnrc/ohare/ohareresidential.htm>. (December 14, 2004).
3. Final Policy on Part 150 Approval of Noise Mitigation Measures: Effect on the Use of Federal Grants for Noise Mitigation Projects, Federal Aviation Administration, 14 CFR 150.

Table 5.2-1 Guidelines for Considering Noise in Land Use Planning and Control, USDOT, Federal Interagency Committee on Urban Noise (FICUN), June 1980; FAA Order 1050.1E, Appendix A, pg A-15, June 8, 2004.

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

1. Transportation Improvement Program for Northeastern Illinois, FY 2001-2006, 2020 Regional Transportation Plan, Chicago Area Transportation Study, October 2000.
2. Conformity Analysis Documentation, 2030 Regional Transportation Plan, FY 2004-2009 Transportation Improvement Program, October 2003.
3. 2020 Regional Transportation Plan for Northeastern Illinois, Chicago Area Transportation Study, October 2000.
4. 2030 Regional Transportation Plan for Northeastern Illinois, Adopted by Resolution, Chicago Area Transportation Study (CATS), October 9, 2003.

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**).
6. Final Environmental Assessment, World Gateway Program, June 2002; Finding of No Significant Impact/Record of Decision, Federal Aviation Administration, June 21, 2002.
7. 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).
8. Highway Capacity Manual 2000, Transportation Research Board, National Research Council, Washington, D.C., 2000.
9. Traffic Impact Analysis: Eastside Development, Chicago O'Hare International Airport, Kimley-Horn and Associates, Inc., April 2000.
10. Chicago O'Hare International Airport Environmental Review, Surface Transportation Data Collection Program, Kimley-Horn and Associates, Inc., October 1999.
11. Chicago O'Hare International Airport, O'Hare Modernization Program, Surface Transportation Survey, Kimley-Horn and Associates, Inc.[CCT], January 2003.
12. Chicago O'Hare International Airport, O'Hare Modernization Program, Surface Transportation Survey, Kimley-Horn and Associates, Inc.[CCT], January 2003.
13. Chicago Operating Rules Association (CORA) Chicago District Terminal Map, April 2000.
14. Memorandum from Jennifer Bihl, Kimley-Horn and Associates, Inc. [CCT], to Lisa Reznar, Ricondo & Associates [CCT], December 3, 2004. (Included as **Attachment G-5 in Appendix G, Surface Transportation**).
15. Memorandum from Jennifer Bihl, Kimley-Horn and Associates, Inc. [CCT], to Lisa Reznar, Ricondo & Associates [CCT], December 3, 2004. (Included as **Attachment G-5 in Appendix G, Surface Transportation**).
16. Memorandum from Jennifer Bihl, Kimley-Horn and Associates, Inc. [CCT], to Lisa Reznar, Ricondo & Associates [CCT], December 3, 2004. (Included as **Attachment G-4 in Appendix G, Surface Transportation**).
17. Memorandum from Jennifer Bihl, Kimley-Horn and Associates, Inc. [TPC], to Lisa Reznar, Ricondo & Associates [TPC], December 3, 2004. (included as **Attachment G-5 in Appendix G, Surface Transportation**).
18. Memorandum from Jennifer Bihl, Kimley-Horn and Associates, Inc. [CCT], to Lisa Reznar, Ricondo & Associates [CCT], December 3, 2004 (included as **Attachment G-5 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 5.3-4** OMP ST 2007 NA Final Draft (CD); Kimley-Horn & Associates, Inc. [CCT], October 26, 2004; 2000 Highway Capacity Manual; Transportation Research Board; National Research Council, Washington, D.C., 2000.
- 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

1. Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (42 USC 4601 et seq.) (PL 91-528 amended by the Surface Transportation and Uniform Relocation Act Amendments of 1987, PL 100-117).
2. Land Acquisition and Relocation Assistance for Airport Improvement Program Assisted Projects, Advisory Circular 5100-17, September 7, 2001.
3. Land Acquisition and Relocation Assistance for Airport Projects, FAA Order 5100.37A, December 1, 2000.
4. Draft O'Hare Land Acquisition Relocation Plan, O.R. Colan, March 13, 2003.
5. Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations (59 FR 7629, February 16, 1994).
6. Environmental Justice in Minority and Low-Income Populations, Order DOT 5610.2, April 15, 1997.
7. O'Hare Modernization Act, Illinois Public Act 93-0450, August 6, 2003.
8. Search for single-family, condo/townhouse, and multi-family listings at Chicago Multiple Listing Service, Website: <http://www.thechicagomls.com>. October 23, 2003.
9. Draft O'Hare Land Acquisition Relocation Plan, O.R. Colan, March 13, 2003.
10. O'Hare Modernization Program, Final Draft, CTE, December 15, 2002.
11. Letters from FAA to City of Chicago Department of Aviation dated December 5, 2001, August 19, 2002, and May 28, 2003.
12. In the United States District Court for the Northern District of Illinois Eastern Division, Case No. 03-C-3726, July 10, 2003.
13. O'Hare International Airport Master Plan, Page VI-41, February 2004.
14. O'Hare Modernization Act, Illinois Public Act 93-0450, August 6, 2003.
15. Draft O'Hare Land Acquisition Relocation Plan, O.R. Colan, March 13, 2003.
16. Long Range Forecasting at NIPC, Uncovering the Science and the Art, CD compiled by Northeastern Illinois Planning Commission, June 2004.
17. Geographic Disaggregation of Regional Economic Impacts of the O'Hare Modernization Program and the No-Project Alternative, Hamilton, Rabinovitz & Alschuler, Inc., [CCT] August 6, 2004, including tables revised on December 24, 2004.

18. Addison Township Assessor's Office, Website: <http://www.addisontownship.com/addison.asp>, October 2003 and August 2004.
19. Ares G. Dalianis and Michael J. Hernandez, The O'Hare School Impact Group (O.S.I.G.): A Report to the Boards of Education Regarding the Property Tax Impact of the O'Hare Runway Expansion Plan, (Chicago: Franczek Sullivan P.C., [2003]).
20. Draft O'Hare Land Acquisition Relocation Plan, O.R. Colan, March 13, 2003.
21. Letter from City of Chicago to FAA, July 11, 2005.
22. O'Hare Modernization Act, Illinois Public Act 93-0450, August 6, 2003.

Table 5.4-1 1990 Median Household Income information: *Census 1990* U.S. Bureau of the Census (CD); 2000 Median Household Income Information: *U.S. Census Bureau, Geographic Comparison Table, Income and Poverty in 1999: 2000, Illinois*; Median Home Value Information, Website: www.marketplaces.chicagotribune.com/marketplaces/homes/search/buy/form/

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#ipds, 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.
2. Hamilton, Rabinovitz & Alschuler, Inc. [CCT], OMP and No-Project Regional Economic Impact Estimates and Projections, August 23, 2004 and Regional Economic Disaggregation, December 24, 2004.
3. Hamilton, Rabinovitz & Alschuler, Inc. [CCT], OMP and No-Project Regional Economic Impact Estimates and Projections, August 23, 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.
6. Federal Register, Vol 66, No. 219, November 13, 2001.
7. Federal Register, Vol 68, No. 178, September 13, 2003.
8. USEPA Green Book, (<http://www.epa.gov/oar/oaqps/greenbk/oindex.html>).
9. Illinois Annual Air Quality Report, 2003. Illinois Environmental Protection Agency, Bureau of Air, August, 2004.
10. Illinois Annual Air Quality Report, 2003. Illinois Environmental Protection Agency, Bureau of Air, August, 2004.
11. Panofsky H.A., Dutton J.A., 1984: Atmospheric turbulence, models and methods for engineering applications, John Wiley and Sons, New York.
12. Conference call, USEPA, IEPA, FAA; November 3, 2004.
13. Emissions and Dispersion Modeling System (EDMS) Reference Manual. U.S. Department of Transportation, Federal Aviation Administration, Office of Environment and Energy. Washington, DC. Version 4.12. December 2003.
14. 63 Federal Register 18068 (Monday, April 13, 1998).
15. Fleming, Gregg et al. 2003. "Derivation of a First Order Approximation of Particulate Matter from Aircraft" 96th Annual Conference and Exhibition of the Air and Waste Management Association, San Diego, CA, June 22-26, 2003, Paper #69970 and FAA Memorandum, Use of the First Order Approximation to Estimate Aircraft Engine Particulate Matter Emissions in NEPA Documents and Clean Air Act General Conformity Analyses, May 24, 2005.
16. Nonroad Engine and Vehicle Emission Study - Report. U.S. Environmental Protection Agency, Office of Transportation and Air Quality, Research Triangle Park, NC., Report number EPA-460/3-91-02, November 1991.
17. NONROAD, Version 2.2.0, December, 2002. U.S. Environmental Protection Agency.
18. South Coast Air Quality Management District, CEQA Air Quality Handbook, May 1993. Table A9-9, Estimating PM10 Emissions from Fugitive Dust.
19. User's Guide to MOBILE62 (Mobile Source Emission Factor Model). U.S. Environmental Protection Agency. October 2002.

20. User's Guide to CAL3QHC Version 2: A Modeling Methodology for Predicting Pollutant Concentration Near Roadway Intersections, EPA-454/R-92-006, U.S. Environmental Protection Agency, Research Triangle Park, NC, November 1992.
21. Guideline for Modeling Carbon Monoxide from Roadway Intersections. U.S. Environmental Protection Agency. Office of Air Quality Planning and Standards. Research Triangle Park, NC. Report number EPA-454/R-92-005. November 1992.
22. Construction Logistics Equipment Plan based on the Airport Layout Plan, AOR/TOK, March 24, 2004.
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"
24. 40 CFR § 93.155.
25. 40 CFR Part 52, Approval of a Section 182(f) Exemption: Illinois, Indiana, Michigan, and Wisconsin; 40 CFR 52.726, Control Strategy: Ozone.
26. Meeting/conference call, USEPA, IEPA, FAA; November 3, 2004.
27. Meeting/conference call, USEPA, IEPA, FAA; November 3, 2004.
28. Best Management Practices Manual for Chicago O'Hare International Airport. Department of Aviation. Revised March 2003.
(http://216.146.77.178/objGW/OMImages/9/000000GH/DOA_BM~1.PDF) Best Management Practices relate to the prevention and control of pollutants.
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).
30. Best Management Practices Manual for Chicago O'Hare International Airport, Department of Aviation. Revised March, 2003. See **Attachment Q-1** in **Appendix Q, Construction**.

- 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 5.6-8** Environmental Science Associates, Inc. [TPC] analysis, 2004/2005.
- Table 5.6-9** Environmental Science Associates, Inc. [TPC] analysis, 2004.
- Table 5.6-10-22** Environmental Science Associates, Inc. [TPC] analysis, 2004/2005.
- Table 5.6-23** Environmental Science Associates, Inc. [TPC] analysis, 2005.
- Table 5.6-25** Environmental Science Associates, Inc. [TPC] analysis, 2005.
- Table 5.6-26-28** Environmental Science Associates, Inc. [TPC] analysis, 2004/2005.

8.4.5.8 Section 5.7 Water Quality

1. Title 35 Illinois Administrative Code (IAC) Part 300.
2. The Condition of Illinois Water Resources 1972-1996, Illinois Environmental Protection Agency, www.epa.state.il.us/water/water-quality/report-1996/index.html
3. Des Plaines River Watershed, Illinois Environmental Protection Agency. www.epa.state.il.us/water/water-quality/report-1999/fact-sheets/watershed-2.pdf
4. Illinois Water Quality Report, Illinois Environmental Protection Agency, 2004. www.epa.state.il.us/water/water-quality/305b/305b-2004.html
5. Total Maximum Daily Load Program, United States Environmental Protection Agency. www.epa.gov/owow/tmdl/states/iltmdltables.html
6. NPDES Permit No. IL0002283, Illinois Environmental Protection Agency, November 19, 1996.
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.
9. Spill Prevention Control & Countermeasure Plan, City of Chicago Department of Aviation, December 2, 1996.

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.
3. Village of Bensenville Park District, TPC Field Observations.
4. Village of Bensenville Park District, TPC Field Observations.
5. Village of Bensenville Park District, TPC Field Observations.
6. Letter from IHPA to FAA regarding St. Johannes Cemetery, April 29, 2005.
7. Letter from Keeper of the NRHP to the FAA, June 9, 2005.
8. Letter from IHPA to Keeper of the NRHP, June 14, 2005.
9. Letter from IHPA to Keeper of the NRHP, June 24, 2005.
10. Letter from FAA to Keeper of the NRHP, July 7, 2005.
11. Letter from IHPA to FAA, June 24, 2005.
12. Letter from FAA to IHPA, June 27, 2005.
13. Conversation between Karen Poulson (Archaeological Research Incorporated) and Steve Marshall Assistant Village Manager of Community Development, Village of Bensenville, June 20, 2004.

14. Letter from IHPA to FAA, June 22, 2005.
15. Letter from FAA to IHPA, June 24, 2005.
16. <http://history.bensenville.lib.il.us/Churches/StJohn.html>

Table 5.8-1 TPC Analysis.

8.4.5.10 Section 5.9 Historic

1. 36 CFR Part 800 – Protection of Historic Properties (incorporating amendments effective August 5, 2004).
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.
6. Draft Report of Investigations, Chicago O'Hare International Airport, O'Hare Modernization Program, MARS, Inc. [CCT] Archaeological Survey Work, December 13, 2002.
7. Architectural Investigation and Determinations of Eligibility for On-Airport Properties, May 20, 2005.
8. Letter from IHPA to FAA, June 23, 2005.
9. Letter from FAA to IHPA, June 27, 2005.
10. Letter from IHPA to FAA regarding St. Johannes Cemetery, April 29, 2005.
11. 36 CFR Part 800 – Protection of Historic Properties {incorporating amendments effective August 5, 2004}.
12. Letter from Keeper of the NRHP to the FAA, June 9, 2005.
13. Letter from IHPA to Keeper of the NRHP, June 14, 2005.
14. Letter from IHPA to Keeper of the NRHP, June 24, 2005.
15. Letter from FAA to Keeper of the NRHP, July 7, 2005.
16. Letter from IHPA to FAA, June 24, 2005.
17. Letter from FAA to IHPA, June 27, 2005.
18. Green Street School Determination of Eligibility, April 25, 2005.
19. Gas Service Station Determination of Eligibility, April 22, 2005.
20. Schwerdtfeger Farmstead Determination of Eligibility, May 20, 2005.
21. IHPA review letter of Green Street School DOE, May 10, 2005.
22. IHPA review letter of Green Street School DOE, May 10, 2005.

23. Letter from IHPA to FAA, June 22, 2005.
24. Letter from FAA to IHPA, June 24, 2005.
25. Geodesic Dome Determination of Eligibility, FAA, April 15, 2005.
26. Geodesic Dome DOE Review Letter, IHPA, May 3, 2005.
27. Letter from IHPA to FAA, June 22, 2005.
28. Letter from FAA to IHPA, June 24, 2005.
29. Architectural Investigation and Determinations of Eligibility for On-Airport Properties, May 20, 2005.
30. Letter from IHPA to FAA, June 23, 2005.
31. Letter from FAA to IHPA, June 27, 2005.
32. Ludwig Mies van der Rohe (1886-1969).
33. Ludwig Mies van der Rohe (1886-1969).
34. Phase I Environmental Baseline Study O'Hare Air Reserve Forces Facility, Harza Environmental Services, January 1997.
35. Report of Investigations, Chicago O'Hare International Airport, O'Hare Modernization Program, MARS, Inc. Archaeological Survey Work, Cultural Resources Management Report 1145a, December 13, 2002 (See **Appendix M – Historic, Architectural, Archaeological, and Cultural Resources**).
36. Letter from Anne E. Haaker, Deputy State Historic Preservation Officer, Illinois Historic Preservation Agency, to Robert Suda, Harza Engineering Company, March 26, 1996.
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.
38. Mark Henkes, *DesPlaines: A History*, 1975.
39. Pei Cobb Freed & Partners, Projects, FAA Air Traffic Control Towers (50).
40. Carter Wiseman, *I.M. Pei A Profile in American Architecture*, New York: Harry N. Abrams, Inc, 1990. Michael Cannell, *I.M. Pei Madarin of Modernism*, New York: Carol Southern Books, 1995.
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).
43. George Renalli, Curator, *Helmut Jahn*, A Yale School of Architecture Exhibition, 1982.
44. Nory Miller, *Helmut Jahn*, New York: Rizzoli, 1986.
45. Nory Miller, *Helmut Jahn*, New York: Rizzoli, 1986.
46. Joachim Andreas Joedicke. *Helmut Jahn: Design of a New Architecture*. New York: Nichols Publishing Company, 1986, pp.9-10.

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.
49. Report of Investigations Chicago O'Hare International Airport, O'Hare Modernization Program, Cultural Resource Management Report No. 1145a, Midwest Archaeological Research Services, December 13, 2002. (See **Appendix M, Historic**).
50. IHPA letter to FAA, November 5, 2004.
51. Conversation between Karen Poulson (Archaeological Research Incorporated) and Steve Marshall Assistant Village Manager of Community Development, Village of Bensenville, June 20, 2004.
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.
53. IHPA letter to FAA, November 5, 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

1. Hazardous Wildlife Attractants On or Near Airports, Federal Aviation Administration, Advisory Circular 150/5200-33A, July 27, 2004.
2. Wildlife Hazard Management Plan, US Department of Agriculture, Animal and Plant Health Inspection Service Wildlife Services, July 26, 2002.
3. Chicago O'Hare International Airport, Eastern Massasauga Threatened and Endangered Species Survey, Montgomery Watson Harza, August 1, 2003.
4. Chicago O'Hare International Airport, Eastern Prairie Frigid Orchid Threatened and Endangered Species Survey, Montgomery Watson Harza, August 1, 2003.
5. Chicago O'Hare International Airport, Small Sundrops Threatened and Endangered Species Survey, Montgomery Watson Harza, August 1, 2003.

6. Ecoregions of the Upper Midwest States, Report No. EPA/600/3-88/037, J.M. Omernik and A.L. Gallant, U.S. Environmental Protection Agency, September 1988.
7. Guide to the Vascular Flora of Illinois, R.H. Mohlenbrock, Southern Illinois University Press, 1986.
8. Wildlife Hazard Management Plan, US Department of Agriculture, Animal and Plant Health Inspection Service Wildlife Services, July 26, 2002.
9. Federal Fish and Wildlife Depredation Permit, Permit Number, MB811454-1, expiration date December 31, 2005.

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

1. Migratory Bird Treaty Act of 1918, (16 U.S.C. 703-712; Ch. 128; July 13, 1918; 40 Stat. 755) as amended by: Chapter 634; June 20, 1936; 49 Stat. 1556; P.L. 86-732; September 8, 1960; 74 Stat. 866; P.L. 90-578; October 17, 1968; 82 Stat. 1118; P.L. 91-135; December 5, 1969; 83 Stat. 282; P.L. 93-300; June 1, 1974; 88 Stat. 190; P.L. 95-616; November 8, 1978; 92 Stat. 3111; P.L. 99-645; November 10, 1986; 100 Stat. 3590 and P.L. 105-312; October 30, 1998; 112 Stat. 2956.
2. Note to File from FAA, November 30, 2004.
3. Letter from John Rogner, USFWS, to Peter Mulvaney, Montgomery Watson Harza, December 23, 2002.
4. Letter from Heather Ryan, IDNR, to Peter Mulvaney, Montgomery Watson Harza, January 6, 2003.
5. Chicago O'Hare International Airport, Eastern Prairie Fringid Orchid Threatened and Endangered Species Survey, Montgomery Watson Harza, August 1, 2003.
6. Chicago O'Hare International Airport, Eastern Massasauga Threatened and Endangered Species Survey, Montgomery Watson Harza. August 1, 2003.
7. Chicago O'Hare International Airport, Small Sundrops Threatened and Endangered Species Survey. Montgomery Watson Harza, August 1, 2003.
8. Letter from Karla Kramer, USFWS, to John Chitty, Montgomery Watson Harza, March 16, 2004.
9. Letter from Steve Hamer, IDNR, to John Chitty, Montgomery Watson Harza, October 22, 2003.
10. Letter from Steve Hamer, IDNR, to Michael Boland, City of Chicago Department of Aviation, O'Hare Modernization Program Office, June 20, 2005
11. Unpublished data, Illinois Breeding Bird Atlas Project, 1986-1993, Illinois Natural History Survey.
12. Personal observations of Red-shouldered Hawk and Upland Sandpiper by Peter Ames, Ornithologist, Harza Engineering, Spring 2001. Personal observation of Little Blue Heron by John Chitty, Wetland Specialist, Harza Engineering, June 2001.

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.
2. City of Chicago Department of Aviation Individual Permit Application to U.S. Army Corps of Engineers, November 2004.
3. City of Chicago Department of Aviation Individual Permit Application to U.S. Army Corps of Engineers, Tab 11, November, 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.
7. Hazardous Wildlife Attractants On or Near Airports. FAA Advisory Circular 150/5200-33A, Federal Aviation Administration, July 27, 2004.
8. Classification of Wetlands and Deepwater Habitats of the United States. L. M. Cowardin, V. Carter, F. C. Golet, and E.T. LaRoe. December 1979. (Prepared for Office of Biological Services, Fish and Wildlife Service, U.S. Department of the Interior, Washington, D.C. 20240.)
9. Classification of Wetlands and Deepwater Habitats of the United States. L. M. Cowardin, V. Carter, F. C. Golet, and E.T. LaRoe. December 1979. (Prepared for Office of Biological Services, Fish and Wildlife Service, U.S. Department of the Interior, Washington, D.C. 20240.)
10. Letter from John Rogner, USFWS, to Peter Mulvaney, Montgomery Watson Harza, December 23, 2002.
11. Letter from Heather Ryan, IDNR, to Peter Mulvaney, Montgomery Watson Harza, January 6, 2003.
12. Letter from Steve Hamer, IDNR, to John Chitty, Montgomery Watson Harza, October 22, 2003.
13. Letter from Karla Kramer, USFWS, to John Chitty, Montgomery Watson Harza, March 16, 2004.
14. Letter from Steve Hamer, IDNR, to Michael Boland, City of Chicago Department of Aviation, O'Hare Modernization Program Office, June 20, 2005.
15. City of Chicago Department of Aviation Individual Permit Application to U.S. Army Corps of Engineers, November 2004.
16. City of Chicago Department of Aviation Individual Permit Application to U.S. Army Corps of Engineers, November 2004.
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.
18. City of Chicago Department of Aviation Individual Permit Application to U.S. Army Corps of Engineers, November 2004.

19. City of Chicago Department of Aviation Individual Permit Application to U.S. Army Corps of Engineers, November 2004.
20. An Intergovernmental Agreement Between the Forest Preserve District of DuPage County and the County of DuPage, Illinois for the Creation of Wetland Mitigation Banks of District Property, SM-0034-01. November 13, 2001.

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

1. TR20/WSP2, Existing Conditions, Willow-Higgins Reservoir, Both Reservoirs (CD), CTE Engineers, March 27, 2001.
2. 17 IAC 3708, Floodway Construction in Northeastern Illinois.
3. O'Hare Modernization Program, Final Draft, CTE, December 15, 2002.
4. FEMA CLOMR Application for Willow-Higgins Creek Relocation, City of Chicago O'Hare Modernization Program, August 16, 2004
5. Airport Environmental Handbook FAA Order 5050.4A, Federal Aviation Administration, October 8, 1985. pp. 47-51.
6. Lower Des Plaines Tributaries Watershed, Cook, DuPage and Lake Counties, Illinois. U.S. Department of Agriculture Soil Conservation Service. 1987. (The U.S.D.A. Soil Conservation Service is now named USDA Natural Resource Conservation Service.)
7. Chicago O'Hare International Airport, North Airfield Drainage and Pollution Control Study, Consoer Townsend & Associates, 1993.
8. Strategic Planning Study For Flood Control, Crystal Creek, Villages of Franklin Park and Schiller Park, Illinois, Illinois Department of Transportation, Department of Water Resources, March 1991.
9. NPDES Sheets and Floodplain Information (CD), CTE Engineers, January 29, 2003.
10. O'Hare Modernization Program, South Detention Basin Information for the Existing Airfield, CTE Engineers. December 15, 2002.
11. Bensenville Ditch Floodway Construction Permit Applications, Illinois Department of Natural Resources, Department of Water Resources, May 1992.
12. NPDES Sheets and Floodplain Information (CD), CTE Engineers, January 29, 2003.
13. Letter from Gary W. Jereb, P.E., Illinois Department of Natural Resources to John Plezbert, City of Chicago Department of Aviation, May 18, 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

1. National Wild and Scenic Rivers System, National Park Service, November 1, 2004.
<http://www.nps.gov/rivers/>
2. Public Papers of the Presidents, Jimmy Carter, Volume 1979, Book II, Wild and Scenic Rivers and National Trails, Memorandums From the President August 2, 1979, Memorandum for the Heads of Departments and Agencies, pages 1379-1380, Office of the Federal Register, National Archives and Records Service, General Services Administration.
3. National Wild and Scenic Rivers System, National Park Service, November 1, 2004.
<http://www.nps.gov/ncrc/programs/rtca/nri/>
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.
5. Letter from NPS to FAA, dated November 30, 2004.
6. Letter from NPS to FAA, dated November 30, 2004.

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.
2. From FHWA 2002 Highway Statistics showing travel in Illinois and fuel consumption in Illinois.
3. Available on the web at <http://www.cta.ornl.gov/data/Download23.html>
4. T-6 Terminal Program Criteria Document Baseline Estimate, T6 Partners, 2002; Concrete Basics, Portland Cement Association; O'Hare International Airport Master Plan, Ricondo Associates, [CCT] 2004, Draft O'Hare Modernization Program Options for High Volume Material Handling, AOR/TOK, January 2003.
5. Letter from Heather T. Mitchell, Peoples Energy, to Amy Hanson, FAA, November 1, 2004.
6. Letter from Richard A. Rice, City of Chicago Department of Water, to Amy B. Hanson, FAA, November 3, 2004.
7. Letter from Richard A. Rice, City of Chicago Department of Water, to Amy B. Hanson, FAA, November 3, 2004.
8. Sustainable Design Manual, City of Chicago O'Hare Modernization Program, December, 2003.
9. City of Chicago, August 13, 2004 "1.8 Sustainable Design" and Sustainable Design Manual, City of Chicago O'Hare Modernization Program, December 2003.

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

Table 5.17-6 T-6 Terminal Program Criteria Document Baseline Estimate, T6 Partners, 2002; Concrete Basics, Portland Cement Association; O'Hare International Airport Master Plan, Ricondo & Associates, 2004, Draft O'Hare Modernization Program Options for High Volume Material Handling, AOR/TOK, January 2003.

Table 5.17-7 Synergy Consultants, Inc. [TPC] review of information supplied by Landrum & Brown [CCT]; T-6 Terminal Program Criteria Document Baseline Estimate, T6 Partners, 2002; Concrete Basics, Portland Cement Association; O'Hare International Airport Master Plan, Ricondo & Associates [CCT], 2004, Draft O'Hare Modernization Program Options for High Volume Material Handling, AOR/TOK, January 2003.

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).
3. Airport and Maritime Operations Manual, 3rd Edition, United States Department of Agriculture, January 31, 2000.
4. Telephone conversation between Amy Hanson, Landrum & Brown, and Ron Kovar, Waste Management, January 22, 2003.
5. Summary of Annual Enplaned Passengers ORD EIS Forecasts, Leigh Fisher Associates, FAA Terminal Area Forecast, and U.S. DOT Data, May 2004.
6. Waste Management Survey for Chicago O'Hare International Airport, City of Chicago Department of Aviation, Prepared by Weston Solutions, Inc. October 29, 2003.
7. Correspondence between Richard Hyde, City of Chicago DOA and T.J. Parker, CTE, Inc. April 3, 2001.
8. Draft Technical Working Report (Solid Waste), City of Chicago, September 27, 2004.
9. Airport and Maritime Operations Manual, 3rd Edition, United States Department of Agriculture, January 31, 2000.
10. Waste Disposal Sites On or Near Airports, Order 5200.5A, Federal Aviation Administration, January 31, 1990.
11. Federal Facility Site Information O'Hare Naval Reserve Station, U.S. EPA, August 5, 2003, <http://www.epa.gov/swerffrr/ff/ohareNRS.htm/>
12. Email from Kelly O'Connell, MACTEC Engineering and Consulting, to Erik Ramirez, Landrum & Brown, Re: 2002 Status of USTs on ORD Property, December 3, 2002.
13. Superfund (CERCLIS), U.S. Environmental Protection Agency, January 2003; Site Remediation Program (SRP) Listing, Illinois, Environmental Protection Agency, January 2003; and Leaking Underground Storage Tank (LUST) Listing, Illinois Environmental Protection Agency, January 2003.
14. Chicago Department of Aviation, Operations Department and Environment Department, Reported spills data extracted from Electronic Log System, January 2002 through December 2003.
15. Preliminary Environmental Site Assessment, FAI 190 (I-190), O'Hare to Cumberland Avenue, Illinois State Geological Survey, August 31, 2000.
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 5.19-1 Nonhazardous Solid Waste Management and Landfill Capacity in Illinois, 2002 Annual Report, IEPA/BOL/03-014 Illinois Protection Agency, October 2003.

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

2002 Baseline: City of Chicago Department of Aviation Waste Management Survey for Chicago O'Hare International Airport, October 2003. No Action Alternative annual enplaned passengers: Leigh Fisher Associates, Inc. [TPC] Constrained Forecast (see **Appendix B, Aviation Demand Forecast**). Build Alternatives annual enplaned passengers: Leigh Fisher Associates, Inc. [TPC] Unconstrained Forecast, based upon FAA 2002 Terminal Area Forecast (see **Appendix B, Aviation Demand Forecast**).

8.4.5.18 Section 5.20 Construction

1. Construction Impacts Draft Technical Working Report, AOR/TOK [CCT], September 2004.
2. 29 CFR Part 1926, Construction Safety and Health Regulations.
3. 49 CFR Part 172 and 49CFR Part 177, Carriage by Public Highway.
4. Construction Impacts Draft Technical Working Report, AOR/TOK [CCT], September 2004.
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.
6. Future Airport Drawing – Implementation Phases, Ricondo & Associates [CCT], February 2004.
7. Construction Impacts Draft Technical Working Report, AOR/TOK [CCT], September 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**).
9. Best Management Practices Manual, Chicago O'Hare International Airport, City of Chicago – Department of Aviation, March 2003.
10. Sustainable Design Manual, City of Chicago O'Hare Modernization Program, December, 2003.

Table 5.20-1-4 Construction Impacts Draft Technical Working Report, AOR/TOK [CCT], September 2004.

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 5.20-8 Crawford, Murphy, and Tilly, Inc. [TPC] analysis of Future Airport Drawing – Implementation Phases, Ricondo & Associates [CCT], February 2004.

Table 5.20-9-12 Construction Impacts Draft Technical Working Report, AOR/TOK [CCT], September 2004.

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

Table 5.20-14 Construction Impacts Draft Technical Working Report, AOR/TOK [CCT], September 2004.

Table 5.20-15-17 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

1. Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Population and Low-Income Populations, February 11, 1994.
2. U.S. Department of Transportation Order 5610.2, Environmental Justice in Minority Populations and Low-Income Populations, December 10, 1997.
3. Final Guidance for Incorporating Environmental Justice Concerns in EPA's NEPA Compliance Analyses, April 1998; Website:
http://www.abanet.org/irr/committees/environmental/epa_guidance.doc.
4. Interim Environmental Justice Policy. Illinois Environmental Protection Agency, Website:
<http://www.epa.state.il.us/environmental-justice/policy.html>
5. Environmental Justice: Guidance under the National Environmental Policy Act. Council on Environmental Quality, p.25, December 10, 1997. Website:
<http://ceq.eh.doe.gov/nepa/regs/EJ/justice.pdf>.
6. Final Guidance for Incorporating Environmental Justice Concerns in EPA's NEPA Compliance Analyses, April 1998, page 17.
7. Environmental Justice in Minority Populations and Low-Income Populations. US Department of Transportation Order 5610.2, Federal Register: (Volume 62, Number 72), Pages 18377-18381, April 15, 1997.
8. Environmental Justice: Guidance under the National Environmental Policy Act. Council on Environmental Quality, p.25, December 10, 1997. Website:
<http://ceq.eh.doe.gov/nepa/regs/EJ/justice.pdf>.
9. Environmental Justice: Guidance under the National Environmental Policy Act. Council on Environmental Quality, Website <http://whitehouse.gov/CEQ/>, p.25, December 10, 1997. Final Guidance for Incorporating Environmental Justice Concerns in EPA's NEPA Compliance Analyses. EPA, April 1998.
10. Environmental Justice in Minority Populations and Low-Income Populations. US Department of Transportation Order 5610.2, Federal Register: (Volume 62, Number 72), Pages 18377-18381, April 15, 1997.
11. Final Environmental Impact Statement: Logan Airside Improvements Planning Project." EIS No. 010084. 2002. Vol. 1, p.2-25, Federal Aviation Administration.
12. US Department of Transportation Order 5610.2, Federal Register: (Volume 62, Number 72), Pages 18377-18381, April 15, 1997.
13. USEPA Green Book (<http://www.epa.gov/oar/oaqps/greenbk/oindex.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=@@@.0251109114.1101308422@@@&BV_EngineID=ccceadddefhimmlcefecelldffhdfgn.0&deptCategoryOID=-536884668&contentType=COC_EDITORIAL&topChannelName=SubAgency&entityName=OHar e+Modernization+Program&deptMainCategoryOID=-536884668

16. O'Hare Land Acquisition Relocation Plan, O.R. Colan, March 13, 2003.
17. O'Hare Modernization Act, Illinois Public Act 93-0450, August 6, 2003.
18. Letters from FAA to City of Chicago Department of Aviation dated December 5, 2001, August 19, 2002, and May 28, 2003.
19. *St. John's United Church of Christ et al. v. City of Chicago*, In the United States District Court for the Northern District of Illinois Eastern Division, Case No. 03-C-3726, July 10, 2003.
20. In the United States District Court for the Northern District of Illinois Eastern Division, Case No. 03-C-3726, July 10, 2003.
21. Letter from FAA to Karaganis White & Magel Ltd. and Kirkland & Ellis, September 22, 2004.
22. Draft O'Hare Land Acquisition Relocation Plan, O.R. Colan, March 13, 2003.
23. Letter from City of Chicago to FAA, July 11, 2005.
24. Final Guidance for Incorporating Environmental Justice Concerns in EPA's NEPA Compliance Analyses April 1998; Website:
http://www.abanet.org/irr/committees/environmental/epa_guidance.doc.

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

1. http://www.gapersblock.com/airbags/archives/who_is_buried_in_couchs_tomb/
2. <http://www.tva.gov/river/landandshore/culturalresources/cemeteries.htm>
3. <http://www.archtoronto.org/elmbank/old>
4. United States Constitution, Amendment I, and 42 U.S.C. § 2000bb et seq., respectively.
5. Letter of January 16, 2004 to Barry Cooper and Philip Smithmeyer, FAA, from Joseph Karaganis, counsel for the Religious Objectors.
6. *St. John's United Church of Christ, et al., v. The City of Chicago, et al*, No. 03 C 3726 (N.D.II.).
7. *St. John's Church of Christ, et al., v The City of Chicago, et al.*, amended complaint, p. 21.
8. *St. John's Church of Christ, et al., v The City of Chicago, et al.*, amended complaint, p. 22
9. 42 U.S.C. § 2000cc-5(7)(A).

8.4.6 Chapter 6, Cumulative Impacts Reference Documents

1. Considering Cumulative Effects Under the National Environmental Policy Act, Council on Environmental Quality, January 1997.
2. Final Draft Environmental Impact Statement, Chicago O'Hare International Airport, Illinois, FAA, May, 1984.
3. Finding of No Significant Impact (FONSI) Record of Decision (ROD) for World Gateway Program and Other Capital Improvement Projects at Chicago O'Hare International Airport, Chicago, Illinois, June 2002.
4. Record of Decision for Tier 1: FAA Site Approval and Land Acquisition by the State of Illinois, Proposed South Suburban Airport, U.S. Department of Transportation, Federal Aviation Administration, July 12, 2002.
5. Notice of Intent to Prepare a Tiered Environmental Impact Statement and Conduct Environmental Scoping for the Construction and Operation of Inaugural Airport Facilities by the State of Illinois for the South Suburban Airport, Federal Register, Volume 68, Number 208, October 28, 2003.
6. The Notice of Availability for the Gary/Chicago International Airport Record of Decision, FAA, Federal Register, Volume 70, Number 56, March 24, 2005.
7. Final Environmental Impact Statement, Chicago O'Hare International Airport, Chicago, Illinois, Volume Two of Two Appendices, Exhibit 16, page 22.
8. 2003 Terminal Area Forecast, Federal Aviation Administration.
9. FAA 2002 CY Air Traffic Activity Data System (ATADS).
10. Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended (42 U.S.C. 4601 et seq.).
11. Final Environmental Impact Statement, Chicago O'Hare International Airport, Chicago, Illinois, FAA, May 1984, page 105.
12. Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Population and Low-Income Populations, February 11, 1994.

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.
2002 and Build Out + 5: Environmental Science Associates, Inc. [TPC] analysis, 2005.

Table 6-6 1982: Final Environmental Impact Statement, FAA, May 1984; 2002 and Build Out + 5: Synergy Consultants, Inc. [TPC] review of information provided by Landrum & Brown [CCT]

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
http://www.ohare.com/cnrc/ohare/o_noise_school.shtm.
2. City of Chicago Residential Sound Insulation Program, December 14, 2004
<http://www.ohare.com/cnrc/ohare/ohareresidential.htm>
3. Final Policy on Part 150 Approval of Noise Mitigation Measures: Effect on the Use of Federal Grants for Noise Mitigation Projects, Federal Aviation Administration, 14 CFR 150.
4. Draft O'Hare Land Acquisition Relocation Plan, O.R. Colan, March 13, 2003.
5. Letter from City of Chicago to FAA, July 11, 2005.
6. O'Hare Modernization Act, Illinois Public Act 93-0450, August 6, 2003.
7. Standards for the Treatment of Historic Buildings, U.S. Department of Interior, National Park Service, 1995.
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 17, 2004.
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**).
13. Best Management Practices Manual, Chicago O'Hare International Airport, City of Chicago – Department of Aviation, March 2003.
14. Sustainable Design Manual, City of Chicago O'Hare Modernization Program, December, 2003.
15. Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Population and Low-Income Populations, February 11, 1994.
16. City of Chicago Land Acquisition Program Website:
http://egov.cityofchicago.org/city/webportal/portalDeptCategoryAction.do?BV_SessionID=@@@@0251109114.1101308422@@@&BV_EngineID=cceadddefhimmlcefecelldffhdfgn.0&deptCategoryOID=-536884668&contentType=COC_EDITORIAL&topChannelName=SubAgency&entityName=OHare+Modernization+Program&deptMainCategoryOID=-536884668
17. O'Hare Land Acquisition Relocation Plan, O.R. Colan, March 13, 2003.
18. O'Hare Modernization Act, Illinois Public Act 93-0450, August 6, 2003.
19. Letters from FAA to City of Chicago Department of Aviation dated December 5, 2001, August 19, 2002, and May 28, 2003.

20. *St. John's United Church of Christ et. al. v. City of Chicago*, In the United States District Court for the Northern District of Illinois Eastern Division, Case No. 03-C-3726, July 10, 2003.
21. Draft O'Hare Land Acquisition Relocation Plan, O.R. Colan, March 13, 2003.
22. Letter from City of Chicago to FAA, July 11, 2005.
23. Final Guidance for Incorporating Environmental Justice Concerns in EPA's NEPA Compliance Analyses April 1998; http://www.abanet.org/irr/committees/environmental/epa_guidance.doc.

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

1. Final Environmental Impact Statement, Chicago O'Hare International Airport, U.S. Department of Transportation, Federal Aviation Administration, May 1984.
2. Airport Capacity Benchmark Report 2001, U.S. Department of Transportation, Federal Aviation Administration, <http://www.faa.gov/events/benchmarks/download.htm>.
3. FAA OPSNET, November 2004.
4. "Ryan backs most of city O'Hare plan; Governor also pushes ahead with proposal to build Peotone," Chicago Tribune article, October 18, 2001.
5. "One more time: Close the deal" Chicago Tribune article, pg. 26, December 5, 2001.
6. O'Hare Modernization Act, Illinois Public Act 93-0450, August 6, 2003.
7. Land and Hold Short Operations (LAHSO), FAA Order ORD 7110.118, February 9, 2001.
8. FAA Tower Order 7110.65E, Section 4-2-8, paragraph 26, February 15, 2004.
9. Ricondo & Associates, Inc., [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – [Existing Airfield 2002], January 2004; Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2007 No Action with NAR, February 2004.
10. Airport Capacity Benchmark Report 2004, FAA, Page 1, October 2004.
11. Airport systems, planning, design, and management, R. DeNeufville and A Odoni, page 134, McGraw-Hill 2003.
12. Airport systems, planning, design, and management, R. DeNeufville and A Odoni, page 132, McGraw-Hill 2003.
13. Crawford, Murphy & Tilly Inc. [TPC] Annual Service Volume Computations, Airport Capacity and Delay, FAA, AC 150/5060-5.
14. 2002 Terminal Area Forecast, Federal Aviation Administration, Years are fiscal.
15. The Notice of Availability for the Gary/Chicago International Airport Final EIS, FAA, Federal Register, Volume 69, October 19, 2004.
16. The Notice of Availability for the Gary/Chicago International Airport Record of Decision, FAA, Federal Register, Volume 70, Number 56, March 24, 2005.
17. Gary/Chicago International Airport Final EIS, coversheet, FAA, October 8, 2004.

18. Record of Decision for Tier 1: FAA Site Approval and Land Acquisition by the State of Illinois, Proposed South Suburban Airport, U.S. Department of Transportation, Federal Aviation Administration, July 12, 2002.
19. Notice of Intent to Prepare a Tiered Environmental Impact Statement and Conduct Environmental Scoping for the Construction and Operation of Inaugural Airport Facilities by the State of Illinois for the South Suburban Airport, Federal Register, Volume 68, Number 208, October 28, 2003.
20. IDOT letter to Citizens dated November 15, 2004.

Table A-1	U.S. Terminal Procedures, East Central (EC). United States Government Flight Information Publication. December 27, 2001.
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-5	Airport Capacity Benchmark Report 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.
6. <http://www.busville.com/schedule.cfm?ID=130>
7. The Notice of Availability for the Gary/Chicago International Airport Final EIS, FAA, Federal Register, Volume 69, October 19, 2004.
8. Gary/Chicago International Airport Final EIS, coversheet, FAA, October 8, 2004
9. The Notice of Availability for the Gary/Chicago International Airport Record of Decision, FAA, Federal Register, Volume 70, Number 56, March 24, 2005.
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.
12. <http://www.vangalderbus.com/schedule/oharerockford.asp>
13. 2002 Terminal Area Forecast, Federal Aviation Administration, Years are fiscal.
14. Greater Rockford Airport Master Plan Study, 1993.
15. 2002 Terminal Area Forecast. Federal Aviation Administration. Years are fiscal.
16. General Mitchell International Airport, Master Plan Update, October 27, 2003.
17. Record of Decision for Tier 1: FAA Site Approval and Land Acquisition by the State of Illinois, Proposed South Suburban Airport, U.S. Department of Transportation, Federal Aviation Administration, July 12, 2002.
18. Notice of Intent to Prepare a Tiered Environmental Impact Statement and Conduct Environmental Scoping for the Construction and Operation of Inaugural Airport Facilities by the State of Illinois for the South Suburban Airport, Federal Register, Volume 68, Number 208, October 28, 2003.
19. Draft - Projections of Aeronautical Activity for the Inaugural Airport Program South Suburban Airport, Illinois Department of Transportation, May 11, 2004.
20. Draft - Projections of Aeronautical Activity for the Inaugural Airport Program South Suburban Airport, Illinois Department of Transportation, May 11, 2004.
21. de Neufville, R. and Odoni, A. Airport Systems – Planning, Design, and Management. 2003.
22. Draft - Projections of Aeronautical Activity for the Inaugural Airport Program South Suburban Airport, IDOT, May 11, 2004.

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

1. TAAM Simulation Data for Noise and Air Quality Analysis, 2018 with Project, Ricondo and Associates, Inc. [CCT], April 2004.
2. Discussion Outline – OMP Advisory Session, Runway 12/30, “Proof of Concept” Evaluation, Ricondo and Associates, Inc. [CCT], September 11, 2003.

Table D-4 TAAM Simulation Data for Noise and Air Quality Analysis, 2007 No Action, Ricondo and Associates, Inc. [CCT], July 2004; TAAM Simulation Data for Noise and Air Quality Analysis, 2009 No Action, Ricondo and Associates, Inc. [CCT], July 2004; TAAM Simulation Data for Noise and Air Quality Analysis, 2013 No Action, Ricondo and Associates, Inc. [CCT], July 2004; TAAM Simulation Data for Noise and Air Quality Analysis, 2018 No Action, Ricondo and Associates, Inc. [CCT], July 2004.

Table D-5 TAAM Simulation Data for Noise and Air Quality Analysis, 2007 With Project, Ricondo and Associates, Inc. [CCT], April 2004.

Table D-6 TAAM Simulation Data for Noise and Air Quality Analysis, 2009 With Project, Ricondo and Associates, Inc. [CCT], April 2004; Transmittal Memorandum, “Revisions OMP EIS – Need for Additional TAAM Experiments”, Ricondo and Associates, Inc. [CCT], August 27, 2004.

Table D-7 TAAM Simulation Data for Noise and Air Quality Analysis, 2013 With Project, Ricondo and Associates, Inc. [CCT], April 2004; TAAM Simulation Data for Noise and Air Quality Analysis, 2018 With Project, Ricondo and Associates, Inc. [CCT], April 2004; Transmittal Memorandum, “Revisions OMP EIS – Need for Additional TAAM Experiments”, Ricondo and Associates, Inc. [CCT], August 27, 2004.

Table D-8 TAAM Simulation Data for Noise and Air Quality Analysis, 2013 Alternative X, Ricondo and Associates, Inc. [CCT], May 2004; TAAM Simulation Data for Noise and Air Quality Analysis, 2018 Alternative X, Ricondo and Associates, Inc. [CCT], May 2004.

Table D-9 TAAM Simulation Data for Noise and Air Quality Analysis, 2013 Alternative Y, Ricondo and Associates, Inc. [CCT], May 2004; TAAM Simulation Data for Noise and Air Quality Analysis, 2018 Alternative Y, Ricondo and Associates, Inc. [CCT], May 2004; Transmittal Memorandum, “Revisions OMP EIS—Need for Additional TAAM Experiments”, Ricondo and Associates, Inc. [TPC], August 27, 2004.

8.4.12 Appendix E, Alternatives Reference Documents

1. Record Of Decision for Proposed New Parallel Runway and Associated Work at Miami International Airport, December 1998, <http://www.faa.gov/arp/app600/5054a/rodmia.doc>
2. New Denver Airport Environmental Assessment, November, 1998.
3. Record of Decision for Airside Improvements Planning Project Logan International Airport, August 2, 2002.
4. National Plan of Integrated Airport Systems (NPIAS) 2005-2009 Report to Congress, FAA, September 30, 2004.
5. National Plan of Integrated Airport Systems (NPIAS) 2001-2005, FAA, August 28, 2002.
6. National Plan of Integrated Airport Systems (NPIAS) 1993-1997, FAA, April 7, 1995.

7. Order Limiting Scheduled Operations, FAA Docket FAA-2004-16944-1, January 21, 2004. See **Attachment A-4 in Appendix A, Background.**
8. FAA Airport Benefit-Cost Guidance, FAA, December 15, 1999.
9. Greater Rockford Transportation Coalition,
http://www.rockfordtransportation.org/issues/high_speed_rail.asp.
10. THOMAS Legislative Information on the Internet, <http://thomas.loc.gov/>
11. USDOT website, <http://www.fhwa.dot.gov/reauthorization/authorizations.htm>
12. Chicago-St. Louis High Speed Rail Project, USDOT, Federal Rail Administration, Federal Highway Administration, Illinois Department of Transportation,
<http://www.dot.state.il.us/hsrail/highspdinfo.html>
13. Environmental Law and Policy Center website, www.elpc.org/trans/rail/rail.htm
14. Federal Railroad Administration web site, www.fra.dot.gov/site/index.htm
Transportation Secretary Slater Announces Extension of Chicago Hub High Speed Rail Corridor to Indianapolis and Cincinnati, www.dot.gov/affairs/fra0199
15. <http://www.dot.gov/affairs/fra201.htm>
16. Strategic Assessment Report, Executive Summary, Report to the Massachusetts Aeronautics Commission, July 1993, Arthur D. Little, Inc.
17. Assessing the Impact of Telecommunications of Business and Pleasure Travel, Prepared for the Federal Aviation Administration, January 7, 1994, Apogee Research, Inc.
18. FAA Aerospace Forecasts, Fiscal Years 2004-2015, March 2004.
19. Notice of Proposed Rulemaking, Federal Register: June 12, 2001 (Volume 66, No. 113); Dockets No. FAA-2001-9852 and No. FAA-2001-9854; Page 31738. Notice of Alternative Policy Options for Managing Capacity at LaGuardia Airport and Proposed Extension of the Lottery Allocation.
20. Notice of Proposed Rulemaking, Federal Register: June 12, 2001 (Volume 66, No. 113); Dockets No. FAA-2001-9852 and No. FAA-2001-9854; Page 31738. Notice of Alternative Policy Options for Managing Capacity at LaGuardia Airport and Proposed Extension of the Lottery Allocation.
21. Vision 100 – Century of Aviation Reauthorization Act, December 12, 2003.
22. FAA Order, Docket FAA-2004-16944, Order Limiting Scheduled Operations, January 21, 2004.
23. National Plan of Integrated Systems (NPIAS) 2005-2009 Report to Congress, September 30, 2004.
24. Draft Airside Simulation Analysis, Ricondo and Associates, Inc. [CCT], January 2003.
25. Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis, Ricondo and Associates, Inc. [CCT], 2007 No Action with NAR, February 2004.
26. Draft Airside Simulation Analysis, Ricondo and Associates, Inc. [CCT], January 2003.
27. 2001 O'Hare Delay Task Force, FAA and City of Chicago, April 2002.
28. <http://www.faa.gov/programs/oep/>
29. O'Hare International Airport Master Plan, City of Chicago, February 2004.
30. O'Hare International Airport Master Plan, City of Chicago, Page IV-17, February 2004.

31. TAAM Simulation Data Package, 2007 No Action, Table I-3, Ricondo and Associates, Inc. [CCT], July 2004.
32. Draft TAAM Simulation Data Package, 2018 With Project, Ricondo and Associates, Inc. [CCT], April 2004.
33. Draft TAAM Simulation Data Package, 2018 With Project, Table I-2, Ricondo and Associates, Inc. [CCT], April 2004.
34. Draft TAAM Simulation Data Package, 2018 Alternative X, Ricondo and Associates, Inc. [CCT], May 2004.
35. Draft TAAM Simulation Data Package, 2018 Alternative X, Table I-2, Ricondo and Associates, Inc. [CCT], May 2004.
36. Draft TAAM Simulation Data Package, 2018 Alternative Y, Ricondo and Associates, Inc. [CCT], May 2004.
37. Draft TAAM Simulation Data Package, 2018 Alternative Y, Table I-2, Ricondo and Associates, Inc. [CCT], May 2004.

Table E-1 Air miles were provided by www.webflyer.com/travel/milemarker; USDOT 10% Passenger Ticket Survey – Domestic Calendar Year (DCY) 2002; Train travel times were provided by www.amtrak.com 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, www.expedia.com, 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, www.nictd.com.

Table E-2 CY 2002, USDOT 10% Passenger Ticket Survey via BACK Aviation Solutions; Air miles - Great Circle Distance (statue 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 www.randmcnally.com; based on fastest route.

Table E-3 Leigh Fisher Associates [TPC] analysis.

Table E-4-12 FAA/TPC Analysis.

Table E-13 O'Hare International Airport Master Plan, Page IV-24, City of Chicago, February 2004.

Table E-14 O'Hare International Airport Master Plan, City of Chicago, February 2004.

Table E-15 Ricondo and Associates, Inc. [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2007 No Action, July 2004; Ricondo and Associates, Inc. [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2009 No Action, July 2004; Ricondo and Associates, Inc. [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2013 No Action, July 2004; Ricondo and Associates, Inc. [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2018 No Action, July 2004.

Table E-16 Ricondo and Associates, Inc.[CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2013 With Project, April 2004; Ricondo and Associates, Inc. [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2018 With Project, April 2004; Revisions OMP EIS—Need for Additional TAAM

Experiments, Transmittal Memorandum Ricondo and Associates, Inc. [TPC], August 27, 2004.

Table E-17 Transmittal Memorandum, "Revisions OMP EIS – Need for Additional TAAM Experiments", Ricondo and Associates, Inc. [CCT], May 14, 2004. Ricondo and Associates, Inc. [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2013 Alternative X, May 2004; Ricondo and Associates, Inc. [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2018 Alternative X, May 2004.

Table E-18 Ricondo and Associates, Inc.[CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2013 Alternative Y, May 2004; Ricondo and Associates, Inc. [CCT] Preliminary Draft TAAM Simulation Data for Noise and Air Quality Analysis – 2018 Alternative Y, May 2004; Revisions OMP EIS—Need for Additional TAAM Experiments, Transmittal Memorandum Ricondo and Associates, Inc. [TPC], August 27, 2004.

8.4.13 Appendix F, Noise Reference Documents

1. Chantlett, E. T., Environmental Protection, McGraw-Hill Book Co. New York, 1973.
2. Galloway, William J., "Predicting Community Response to Noise from Laboratory Data," in *Transportation Noises: A Symposium on Acceptability Criteria*, Ann Arbor Science Publishers, Ann Arbor, Michigan, 1970.
3. U.S. Environmental Protection Agency, *Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety*, U.S. EPA Report No. 550/9-74-004, 1974.
4. Federal Aviation Administration, *Federal Aviation Regulations Part 150, Airport Noise Compatibility Planning*, Appendix A, 1984.
5. U.S. Environmental Protection Agency, *Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety*, U.S. EPA Report No. 550/9-74-004, 1974.
6. Schultz, T. J., "Synthesis of Social Surveys on Noise Annoyance," *Journal of the Acoustical Society of America*, Vol. 64, No. 2, August 1978.
7. Federal Aviation Administration, *Air Traffic Noise Screening (ATNS) Model 2.0 User Manual*, January 1999.
8. Federal Aviation Regulations Part 150, *Airport Noise Compatibility Planning*, Code of Federal Regulations, Title 14, Chapter I, Subchapter I, Part 150, Table 1, January 1985.
9. Newman, Stephen J. and Beattie, Kristy R., *Aviation Noise Effects*, Federal Aviation Administration, Report FAA-EE-85-2, March 1985.
10. Federal Interagency Committee on Noise, *Federal Agency Review of Selected Airport Noise Analysis Issues*, August 1992.
11. Newman, Stephen J. and Beattie, Kristy R., *Aviation Noise Effects*, Federal Aviation Administration, Report FAA-EE-85-2, March 1985.

12. Kryter, K. D., *Physiological, Psychological, and Social Effects of Noise*, NASA Reference Publication 1115, 1984.
13. *Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety*, EPA/ONAC 550/9-74-004, March 1974.
14. Fields, J.M., *Cumulative Airport Noise Exposure Metrics: An Assessment of Evidence for Time-of-Day Weightings*, Report No. DOT/FAA/EE-86/10, FAA, Washington, D.C., 1986.
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.
16. Federal Interagency Committee on Noise (FICON). 1992. *Federal Agency Review of Selected Airport Noise Analysis Issues*. Washington, D.C.: FICON.
17. Directorate of Operational Research and Analysis (DORA), *Aircraft Noise and Sleep Disturbance: Final Report*, DORA Report 8008, Civil Aviation Authority, London, 1980, cited in Kryter, 1984, p. 434.
18. Kryter, K. D., *Physiological, Psychological, and Social Effects of Noise*, NASA Reference Publication 1115, 1984.
19. Fidell, S., K. Pearsons, R. Howe, B. Tabachnick, L. Silvati, and D.S. Barber. *Noise Induced Sleep Disturbance in Residential Settings (AL/OE-TR-1994-0131)*. Wright Patterson Air Force Base, OH: Armstrong Laboratory, Occupational & Environmental Health Division (AL/OEBN). 1994.
20. Fidell, S., R. Howe, B. Tabachnick, K. Pearsons, and M. Sheddon. *Noise Induced Speel Disturbance in Residences Near Two Covil Airports (Contract NAS1-20101)*. NASA Langley Research Center. 1995.
21. FICAN Annual Report: 1997, Federal Interagency Committee on Aviation Noise, February 1998.
22. Newman, Stephen J. and Beattie, Kristy R., *Aviation Noise Effects*, Federal Aviation Administration, Report FAA-EE-85-2, March 1985.
23. Federal Interagency Committee on Noise, *Technical Report*, page 3-25, August 1992.
24. www.apo.data.faa.gov/atads/towers/t.asp
25. TPC memo "ORD 2002 Noise Analysis; Runway Use Assumptions (Revised)" August 6, 2003.
26. TPC memo "OMP EIS Noise Discipline Meeting #4 – February 26, 2004" March 10, 2004, discussion item 7.
27. TPC memo "OMP EIS Noise Discipline Meeting #4 – February 26, 2004" March 10, 2004, discussion item 10.
28. TPC memo "Concurrence on Modified Flight Track Structure from 2002 Base Case" March 18, 2004.
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.
30. ISO Standard 9613-2, "Acoustics – Attenuation of sound during propagation outdoors – Part 2: General method of calculation," International Organization for Standardization, Geneva, 1996.

31. The *OMP EIS Aircraft Ground Noise Analysis* report can be found at the end of this Appendix as **Attachment F-3**.
32. Chicago O'Hare International Airport, Ground Run-Up Log Form Entries, May 2, 1997 – July 8, 2004, ORD Noise Office, August 11, 2004.
33. Environmental Evaluation of Technical Working Reports for the O'Hare Modernization Program: Affected Environment (Draft Final), "Appendix A – Noise-Sensitive Facilities," Prepared by Landrum & Brown, November 25, 2003.
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**.
36. HMMH Technical memorandum, October 8, 2004.
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**.
40. Final Policy on Part 150 Approval of Noise Mitigation Measures: Effect on the Use of Federal Grants for Noise Mitigation Projects, Federal Aviation Administration, 14 CFR 150.

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 29 Code of Federal Regulations (CFR) Chapter XVII, Section 1910.95 (b).

Table F-4-7 Base data prepared by Landrum and Brown, Inc. [CCT] with concurrence by Leigh Fisher Associates [TPC], *Review of INM Fleet Mix Assumptions for OMP EIS 2002 Baseline Case*, dated 17 June 2003. Adjustments to future years done by Leigh Fisher Associates [TPC].

Table F-8 Forecast Annual Operations, Terminal Area Forecasts, Federal Aviation Administration, 2003. PMAD Operations, CCT TAAM data packages. AAD Operations, Leigh Fisher Associates [TPC], October 2004.

Table F-9 Leigh Fisher Associates [TPC] analysis of Draft TAAM Simulation Data for Noise and Air Quality Analysis, 2007 With Project, Ricondo & Associates, Inc. [CCT], April 2004.

Table F-10 Leigh Fisher Associates [TPC] analysis, October 2004.

Table F-11 Leigh Fisher Associates [TPC] analysis of TAAM Simulation Data for Noise and Air Quality Analysis, 2009 With Project, Ricondo & Associates, Inc. [CCT], April 2004.

Table F-12 Leigh Fisher Associates [TPC] analysis, October 2004.

Table F-13 Leigh Fisher Associates [TPC] analysis of Draft TAAM Simulation Data for Noise and Air Quality Analysis, 2013 With Project, Ricondo & Associates [CCT], April 2004. Leigh Fisher Associates [TPC] analysis of Draft TAAM Simulation Data for Noise and Air Quality Analysis, 2018 With Project, Ricondo & Associates [CCT], April 2004.

- Table F-14** Leigh Fisher Associates [TPC] analysis, October 2004.
- Table F-15** Leigh Fisher Associates [TPC] analysis of Draft TAAM Simulation Data for Noise and Air Quality Analysis, 2013 Alternative X, Ricondo & Associates, Inc. [CCT], May 2004. Leigh Fisher Associates [TPC] analysis of Draft TAAM Simulation Data for Noise and Air Quality Analysis, 2018 Alternative X, Ricondo & Associates, Inc. [CCT], May 2004.
- Table F-16** Leigh Fisher Associates [TPC] analysis, October 2004.
- Table F-17** Leigh Fisher Associates [TPC] analysis of Draft TAAM Simulation Data for Noise and Air Quality Analysis, 2013 Alternative Y, Ricondo & Associates, Inc. [CCT], May 2004. Leigh Fisher Associates [TPC] analysis of Draft TAAM Simulation Data for Noise and Air Quality Analysis, 2018 Alternative Y, Ricondo & Associates, Inc. [CCT], May 2004.
- Table F-18** Leigh Fisher Associates [TPC] analysis, October 2004.
- 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-46** SSIP: City of Chicago Department of Aviation Noise Office, SSIP Information, June 2005. Learning institutions: 1. 2002 Non-public School Database, Illinois State Board of Education. 2. 2001 Public School Database, Illinois State Board of Education. 3. Searches on www.smartpages.com for "university," "college," "library," "preschool," "Montessori," "junior high," "middle school," "high school," "school," "learning center," and "academy" 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 non-profit entities were included in results. 4. National Center for Educational Statistics (NCES), on-line at <http://nces.ed.gov/globallocator/>.
- Table F-47** Searches on www.smartpages.com for "hospital," "nursing home," "convalescent home," "clinic," 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-48** Search on www.smartpages.com
- Table F-49** DuPage County Park District, Cook County Park District, Community Park Districts.
- Table F-50** SSIP: City of Chicago Department of Aviation Noise Office, SSIP Information, June 2005. Learning institutions: 1. 2002 Non-public School Database, Illinois State Board of Education. 2. 2001 Public School Database, Illinois State Board of Education. 3. Searches on www.smartpages.com for "university," "college," "library," "preschool," "Montessori," "junior high," "middle school," "high school," "school," "learning center," and "academy" 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 non-profit entities were included in results. 4. National Center for Educational Statistics (NCES), on-line at <http://nces.ed.gov/globallocator/>.
- Table F-51** Searches on www.smartpages.com for "hospital," "nursing home," "convalescent home," "clinic," 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.

Learning institutions: 1. 2002 Non-public School Database, Illinois State Board of Education. 2. 2001 Public School Database, Illinois State Board of Education. 3. Searches on www.smartpages.com for "university," "college," "library," "preschool," "Montessori," "junior high," "middle school," "high school," "school," "learning center," and "academy" 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 non-profit entities were included in results. 4. National Center for Educational Statistics (NCES), on-line at <http://nces.ed.gov/globallocator/>.

Table F-56-57 Searches on www.smartpages.com for "hospital," "nursing home," "convalescent home," "clinic," 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-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.

Learning institutions: 1. 2002 Non-public School Database, Illinois State Board of Education. 2. 2001 Public School Database, Illinois State Board of Education. 3. Searches on www.smartpages.com for "university," "college," "library," "preschool," "Montessori," "junior high," "middle school," "high school," "school," "learning center," and "academy" 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 non-profit entities were included in results. 4. National Center for Educational Statistics (NCES), on-line at <http://nces.ed.gov/globallocator/>.

Table F-64-65 Searches on www.smartpages.com for "hospital," "nursing home," "convalescent home," "clinic," 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-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

1. Terminal Support Work Group Ground Access Study. City of Chicago Department of Aviation. November 9, 1990.
2. O'Hare Airport CTA Customer Travel Survey, Chicago Transit Authority, June 2000.
3. Chicago O'Hare International Airport, O'Hare Modernization Program, Surface Transportation Survey. Kimley-Horn and Associates, Inc. [CCT], January 2003.
4. Chicago O'Hare International Airport, O'Hare Modernization Program, Surface Transportation Survey. Kimley-Horn and Associates, Inc. [CCT], January 2003.
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.
9. Chicago Transit Authority Web site, www.transitchicago.com, Chicago Transit Authority, 2002.
10. O'Hare Airport CTA Customer Travel Survey, Chicago Transit Authority, June 2000.
11. Chicago O'Hare International Airport, O'Hare Modernization Program, Surface Transportation Survey. Kimley-Horn and Associates, Inc. [CCT], January, 2003.
12. Metra – North Central Service Corridor Environmental Assessment. Federal Transit Administration. April 2000.
13. Karen Schwartz, "Towns foresee benefits from Metra expansion," Chicago Tribune, June 4, 2003.
14. Chicago Operating Rules Association (CORA) Chicago District Terminal Map, April 2000.
15. Summary of Airport Demand and Future Parking Options, Chicago O'Hare International Airport. Barton-Aschman Associates, April 27, 1999.
16. 2002 Surface Transportation Survey, Kimley-Horn and Associates, Inc. Revised January, 2003.
17. 2002 Surface Transportation Survey, Kimley-Horn and Associates, Inc. Revised January, 2003.
18. 2002 Surface Transportation Survey, Kimley-Horn and Associates, Inc. Revised January, 2003.
19. 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).
20. Chicago O'Hare Ground Access Survey, Technical Memorandum Analysis of 1997 Survey Results, Barton-Aschman Associates, Inc., March 4, 1998.
21. Chicago O'Hare Ground Access Survey, Technical Memorandum Analysis of 1997 Survey Results, Barton-Aschman Associates, Inc., March 4, 1998.
22. Memorandum from Shawn Kinder, Ricondo & Associates [CCT], to OMP Surface Transportation Team, June 16, 2003.

23. Memorandum from Chris Oswald, TPC, to Richard Kula, FAA, May 18, 2004.
24. Memorandum from Brian Mohr, TPC, to Richard Kula, FAA, January 14, 2004.
25. Traffic Impact Analysis: Eastside Development, Chicago O'Hare International Airport, Kimley-Horn and Associates, Inc., April 2000.
26. Traffic Impact Analysis: Eastside Development, Chicago O'Hare International Airport, Kimley-Horn and Associates, Inc., April 2000.
27. Chicago O'Hare International Airport Environmental Review, Surface Transportation Data Collection Program, Kimley-Horn and Associates, Inc., October 1999.
28. Airport Layout Plan, O'Hare International Airport, City of Chicago, Department of Aviation, October 2003.
29. O'Hare Modernization Program. Project Definition Report, Ricondo & Associates, Inc. [CCT], January 2003.
30. O'Hare International Airport Master Plan, Ricondo & Associates, Inc. [CCT], February 2004.
31. Trip Generation, 7th Edition, Institute of Transportation Engineers, 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.
33. Chicago O'Hare International Airport; O'Hare Modernization Program: Surface Transportation Technical Report, Attachment E Intersection Layout Drawings, Kimley-Horn and Associates, Inc. [CCT], November 2004.
34. Chicago O'Hare International Airport; O'Hare Modernization Program: Surface Transportation Technical Report, Attachment F On-Airport Parking Facilities Maps, Kimley-Horn and Associates, Inc. [CCT], November 2004.

- 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.
2. Illinois Department of Revenue, "Understanding the Illinois Property Tax System" Web site: <http://www.revenue.state.il.us/LocalGovernment/PropertyTax/>, 6 August 2004. Statutory Reference 35 ILCS 2001/1 et.seq.
3. Addison Township Assessor's Office, online, Web site, <http://www.addisontownship.com/addison.asp>, October 2003 and August 2004.

4. Draft O'Hare Land Acquisition Relocation Plan, City of Chicago, O.R. Colan [CCT], March 13, 2003.

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

1. King, Suzanne, USEPA Region 5 facsimile to Mike MacMullen, FAA, December 17, 2004.
2. Analysis Protocol for Hazardous Air Pollutants, February 25, 2003.
3. FAA, Record of Decision, Proposed LAX Master Plan Improvements, May 20, 2005, P. 23 (<http://www.laxmasterplan.org/publications.cfm>).
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>
5. Vanderbilt, Pamela, 2003, *Health Risk Assessment of Air Toxics from Airports; The State of the Science, May 2002*, CH2M Hill with John Lowe, presented to the Air & Waste Management Association; Hayes, Stanley, 2003, *Characterizing Air Toxics Composition of Jet Exhaust for Airport Health Risk Assessments*, presented at an Air & Waste Management Association conference; Pehrson, John, 2003, *Toxic Air Contaminant Emissions from Aircraft – A Literature Review of Aircraft Engine Measurements*, (other contributors include Wei Guo, Teresa Raine, Vincent Tino, and Roger Johnson – Los Angeles World Airports), presented at an Air & Waste Management Association conference; and CDM, 2003, *A Preliminary Study and Analysis of Hazardous Air Pollutant Emissions from a Commercial Airport using Modeled and source Speciation Profiles*, by Wei Guo, John Pehrson, Teresa Raine, James LaVelle, and Vincent Tino, presented at an Air & Waste Management conference.
6. <http://www.epa.gov/ttn/atw/nata/natsafaq.html#B7>
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/cfm/recordisplay.cfm?deid=55445>
8. Summary based on the Agency for Toxic Substance and Disease Registry *ToxFAQ for 1,3-butadiene*, <http://www.atsdr.cdc.gov/tfacts28.html>, September 1995.
9. Summary based on the Hazardous Substances Database – Acetaldehyde, <http://toxnet.nlm.nih.gov>, August 2003.
10. Summary based on the Agency for Toxic Substance and Disease Registry *ToxFAQ for Acrolein*, <http://www.atsdr.cdc.gov/tfacts124.html>, July 1999.

11. Summary based on the Agency for Toxic Substance and Disease Registry *ToxFAQ for Arsenic*, <http://www.atsdr.cdc.gov/tfacts2.html>, December 2003.
12. Summary based on the Agency for Toxic Substance and Disease Registry *ToxFAQ for Benzene*, <http://www.atsdr.cdc.gov/tfacts3.html>, September 1997.
13. Summary based on the Agency for Toxic Substance and Disease Registry *ToxFAQ for Chromium*, <http://www.atsdr.cdc.gov/tfacts7.html>, February 2001.
14. Summary based on the California Air Resources Board and Office of Environmental Health Hazard Assessment. *Proposed Identification of Diesel Exhaust as a Toxic Air Contaminant*, approved by the Scientific Review Panel in April 1998 and USEPA, *Health Assessment Document for Diesel Engine Exhaust*, EPA/600/8-90/057F, May 2002.
15. Summary based on the Agency for Toxic Substance and Disease Registry *ToxFAQ for Formaldehyde*, <http://www.atsdr.cdc.gov/tfacts111.html>, July 1999.
16. Summary based on the Agency for Toxic Substance and Disease Registry *ToxFAQ for Naphthalene*, <http://www.atsdr.cdc.gov/tfacts67.html>, September 2003.
17. Summary based on the Agency for Toxic Substance and Disease Registry *ToxFAQ for Nickel*, <http://www.atsdr.cdc.gov/tfacts15.html>, September 2003.
18. Summary based on the Agency for Toxic Substance and Disease Registry *ToxFAQ for Toluene*, <http://www.atsdr.cdc.gov/tfacts56.html>, February 2001.
19. Section 1502.22 of the Council on Environmental Quality Regulations (Incomplete or Unavailable Information).
20. Spicer, C.W. et al., 1984. Composition and Photochemical Reactivity of Turbine Engine Exhaust, March.
21. Pamela Vanderbilt and John Lowe, Health Risk Assessment of Air Toxics from Airports, February 28, 2002.
22. Shumway, L.A., 2000. Trace Element and Polycyclic Aromatic Hydrocarbon Analysis of Jet Engine Fuels: Jet A, JP-5, JP-8, December.
23. King, Suzanne, USEPA Region 5 Facsimile to Mike MacMullen, FAA, December 17, 2004.
24. Shumway, L.A., 2000. Trace Element and Polycyclic Aromatic Hydrocarbon Analysis of Jet Engine Fuels: Jet A, JP-5, JP-8, December.
25. LAWA, 2000, *LAX Master Plan Final EIS/EIR, Human Health Risk Assessment*, Technical Report 14a., prepared for the Los Angeles World Airports Authority.
26. The Clean Air Act of 1970, 42 U.S.C. §7401.
27. The 1990 Clean Air Act Amendments, 42 U.S.C. §7401.
28. Sec. 112. National emission standards for hazardous air pollutants.
29. Federal Register, Volume 68, May 27, 2003.
30. Part B - Aircraft Emission Standards, Sec. 231. Establishment of Standards.
31. 15 USC 35.

32. USEPA, 2000, Review of Draft Air Toxics Monitoring Strategy Concept Paper, Science Advisory Board, Air Toxics Monitoring Subcommittee, EPA-SAB-EC-00-015.
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.
34. FAA Order 1050.1E Environmental Impacts, Policies, and Procedures, June 8, 2004.
35. FAA Order 50504A Airport Environmental Handbook, October 8, 1985. The FAA announced the release of Draft Order 5050.4B on December 16, 2004.
36. FAA, Air Quality Handbook, Air Quality Procedures for Civilian Airports and Air Force Bases, April 1997.
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/>
39. <http://www.epa.gov/air/data/index.html>
40. USEPA - <http://www.epa.gov/air/toxicair/newtoxics.html#progress>
41. 1996 Inventory for Toxic Air Emissions: A Product of the Great Lakes Regional Air Toxics Project, Part I: Point and Area Sources, Great Lakes Commission, December 1999 and 1996 Inventory for Toxic Air Emissions, Part II: Mobile Sources, Great Lakes Commission, February 2000.
42. 2001 Inventory of Toxic Air Emissions, Point, Area and Mobile Sources, Great Lakes Commission, April 2004.
43. KM Chng, 1999, Findings Regarding Source Contribution to Soot Deposition, O'Hare International Airport and Surrounding Communities, prepared for the City of Chicago, December 1999, KM Chng Report No. 991102.
44. Chicago Department of Aviation, Press release summarizing testing at O'Hare International Airport, December 19, 1999. Website: http://www.flychicago.com/doa/avi_news/doa_avi_news_pr_12.shtm. Accessed October 20, 2004.
45. City of Park Ridge, Illinois, 2000. Preliminary Study and Analysis of Toxic Air Pollutant Emissions from O'Hare International Airport and the Resulting Health Risks Created by these Toxic Emissions in Surrounding Residential Communities, August 2000.
46. 65 FR 21506 and 68 FR 18440
47. Chicago O'Hare Airport Air Toxic Monitoring Program, June-December 2000, Final Report Illinois EPA, Bureau of Air, May 2002.
48. Chicago O'Hare Airport Air Toxic Monitoring Program, June-December 2000, Final Report Illinois EPA, Bureau of Air, May 2002.
49. Shen T, Lehnerr M. Cancer Incidence in Populations living near Chicago O'Hare and Midway Airports, Illinois 1987-1997. Epidemiological Report Series 01:6. Springfield, IL: Illinois Department of Public Health, November 2001.
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.

51. Estimation and Evaluation of Cancer Risks Attributed to Air Pollution in Southwest Chicago, USEPA Region V, Air and Radiation Division, April 1993.
52. USEPA, 2004. Air Toxics Community Assessment and Risk Reduction Projects Database. <http://yosemite.epa.gov/oar/CommunityAssessment.nsf/0/c800613b3e28ce4a85256be2005f5fc5?> Accessed October 20, 2004
53. Port of Seattle, 1995, *Final Report: Air Quality Survey*, Seattle-Tacoma International Airport, January.
54. McCulley, Frick & Gilman, Inc., 1995, *Air Quality Survey*, Seattle-Tacoma International Airport, Final Report, prepared for Port of Seattle Aviation Planning Department.
55. Lindberg DE, Castleberry J, Price RO. A human health risk assessment of the John Wayne and Proposed Orange County International Airports in Orange County, California, June 21, 2000.
56. South Coast Air Quality Management District, 1999, *Multiple Air Exposure Study in the South Coast Air Basin (MATES-II)*, Draft Final Report.
57. LAWA, 2004, *LAX Master Plan Final EIS/EIR, Human Health Risk Assessment*, Technical Report 14a., prepared for the Los Angeles World Airports Authority. <http://www.laxmasterplan.org/>
58. FAA, Record of Decision, Proposed LAX Master Plan Improvements, May 20, 2005, P. 23 (<http://www.laxmasterplan.org/publications.cfm>)
59. Environ Corp., 2001, *Screening Air Quality Evaluation of the Teterboro Airport*, Teterboro, New Jersey, prepared of the Coalition for Public Health and Safety, Moonachie, New Jersey.
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.
61. Municipality of Anchorage Department of Health and Human Services, *Ted Stevens Anchorage International Airport Air Toxics Monitoring Study*, April 21 2003.
62. King, Suzanne, USEPA Region 5 Facsimile to Mike MacMullen, FAA, December 17, 2004.
63. Analysis Protocol for Hazardous Air Pollutants, February 25, 2003.
64. Meetings Minutes from June 16, 2004 Meeting with USEPA, IEPA, and FAA.
65. Analysis Protocol for Hazardous Air Pollutants, February 25, 2004 and Hazardous Air Pollutant Speciation Profiles, June 29, 2004.
66. Hazardous Air Pollutant Speciation Profiles, June 29, 2004
67. 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>
68. USEPA, Glossary of Integrated Risk Information System (<http://www.epa.gov/iris/gloss8.htm#u>).
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/>
72. USEPA, *Risk-Screening Environmental Indicators (RSEI) Chronic Human Health Methodology, RSEI Version 2.1*, USEPA, Office of Pollution Prevention and Toxics, Washington, DC, January 2004. (<http://www.epa.gov/tri/>)
73. CalEPA Office of Environmental Health Hazard Assessment (OEHHA), Toxicity Criteria Database, <http://www.oehha.ca.gov/risk/ChemicalDB/>.
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.
75. LAWA, 2004, *LAX Master Plan Final EIS/EIR, Human Health Risk Assessment*, Technical Report 14a., prepared for the Los Angeles World Airports Authority.
76. King, Suzanne, USEPA Region 5 Facsimile to Mike MacMullen, FAA, December 16, 2004.
77. Construction Logistics Equipment Plan based on the Airport Layout Plan, AOR/TOK, March 24, 2004.
78. Best Management Practices Manual for Chicago O'Hare International Airport. Department of Aviation. Revised March 2003. http://216.146.77.178/objGW/OMImages/9/000000GH/DOA_BM~1.PDF.
79. Best Management Practices Manual for Chicago O'Hare International Airport. Department of Aviation. Revised March 2003. See **Attachment Q1** in **Appendix Q, Construction**.
80. LAWA, 2004, *LAX Master Plan Final EIS/EIR, Human Health Risk Assessment*, Technical Report 14a., prepared for the Los Angeles World Airports Authority.
81. 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.
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:

83. Summary based on the Agency for Toxic Substances and Disease Registry ToxFAQ for 1,3-butadiene, <http://www.atsdr.cdc.gov/tfacts28.html>, September 1995.
84. USEPA, USEPA's Risk Screening Environmental Indicators (RSEI) Chronic Human Health Methodology, Technical Appendix A, Version 2.1, OPPT, Washington DC, January 2004
85. Summary based on the Hazardous Substances Database – Acetaldehyde, <http://toxnet.nlm.nih.gov>, August 2003.
86. USEPA, *Risk Screening Environmental Indicators (RSEI) Chronic Human Health Methodology*, Technical Appendix A, RSEI Version 2.1, OPPT, Washington DC, January 2004.
87. Summary based on the Agency for Toxic Substances and Disease Registry ToxFAQ for Acrolein, <http://www.atsdr.cdc.gov/tfacts124.html>, July 1999.

88. USEPA, *Risk Screening Environmental Indicators (RSEI) Chronic Human Health Methodology*, Technical Appendix A, Version 2.1, OPPT, Washington DC, January 2004.
89. Summary based on the Agency for Toxic Substances and Disease Registry *ToxFAQ for Arsenic*, <http://www.atsdr.cdc.gov/tfacts2.html>, December 2003.
90. USEPA, *USEPA's Risk Screening Environmental Indicators (RSEI) Chronic Human Health Methodology*, Technical Appendix A, Version 2.1, OPPT, Washington DC, January 2004.
91. Summary based on the Agency for Toxic Substances and Disease Registry *ToxFAQ for Benzene*, <http://www.atsdr.cdc.gov/tfacts3.html>, September 1997.
92. USEPA, *USEPA's Risk Screening Environmental Indicators (RSEI) Chronic Human Health Methodology*, Technical Appendix A, Version 2.1, OPPT, Washington DC, January 2004.
93. Summary based on the Agency for Toxic Substances and Disease Registry *ToxFAQ for Chromium*, <http://www.atsdr.cdc.gov/tfacts7.html>, February 2001.
94. USEPA, *USEPA's Risk Screening Environmental Indicators (RSEI) Chronic Human Health Methodology*, Technical Appendix A, Version 2.1, OPPT, Washington DC, January 2004.
95. Summary based on the California Air Resources Board and Office of Environmental Health Hazard Assessment. *Proposed Identification of Diesel Exhaust as a Toxic Air Contaminant*, approved by the Scientific Review Panel in April 1998, and USEPA, *Health Assessment Document for Diesel Engine Exhaust*, EPA/600/8-90/057F, May 2002.
96. California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, 2003.
97. USEPA, *Risk Screening Environmental Indicators Chronic Human Health Methodology*, Technical Appendix A, Version 2.1, Washington DC, January 2004.
98. <http://www.epa.gov/ttn/atw/nata/natsafaq.html#B7>
99. Summary based on the Agency for Toxic Substances and Disease Registry *ToxFAQ for Formaldehyde*, <http://www.atsdr.cdc.gov/tfacts111.html>, July 1999.
100. USEPA, *Risk Screening Environmental Indicators (RSEI) Chronic Human Health Methodology*, Technical Appendix A, Version 2.1, OPPT, Washington DC, January 2004.
101. Summary based on the Agency for Toxic Substances and Disease Registry *ToxFAQ for Naphthalene*, <http://www.atsdr.cdc.gov/tfacts67.html>, September 2003.
102. USEPA, *Risk Screening Environmental Indicators (RSEI) Chronic Human Health Methodology*, Technical Appendix A, Version 2.1, OPPT, Washington DC, January 2004.
103. Summary based on the Agency for Toxic Substances and Disease Registry *ToxFAQ for Nickel*, <http://www.atsdr.cdc.gov/tfacts15.html>, September 2003.
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.
105. USEPA, *Risk Screening Environmental Indicators (RSEI) Chronic Human Health Methodology*, Technical Appendix A, Version 2.1, OPPT, Washington DC, January 2004.
106. Summary based on the Agency for Toxic Substances and Disease Registry *ToxFAQ for Toluene*, <http://www.atsdr.cdc.gov/tfacts56.html>, February 2001.

107. USEPA, *Risk Screening Environmental Indicators (RSEI) Chronic Human Health Methodology*, Technical Appendix A, Version 2.1, OPPT, Washington DC, January 2004.

- Table I-1** Environmental Science Associates, Inc. [TPC] analysis, 2004
- Table I-2-3** Select Resource Materials and Annotated Bibliography on the Topic of Hazardous Air Pollutants (HAPS) Associated with Aircraft, Airports, and Aviation, Federal Aviation Administration, July 1, 2003.
- Table I-4-7** USEPA AirData, <http://www.epa.gov/air/data/geosel.html>
- Table I-8** <http://www.glc.org/air/inventory/1996/>. Compiled by Environmental Science Associates, Inc. [TPC], 2004.
- Table I-9** <http://www.glc.org/air/inventory/2001/>. Compiled by Environmental Science Associates, Inc. [TPC], 2004.
- Table I-10** <http://www.glc.org/air/inventory/1996/> and <http://www.glc.org/air/inventory/2001/> . Compiled by Environmental Science Associates, Inc. [TPC], 2004.
- Table I-11** Environmental Science Associates, Inc. [TPC] analysis, 2004
- Table I-12** USAF (Gerstle, T., P. Virag, M. Wade, L. Kimm), 1999. *Aircraft Engine and Auxiliary Power Unit Emissions Testing: Volume 1, Executive Summary*, U.S. Air Force, Institute for Environment, Safety and Occupational Health Risk Analysis, Brooks Air Force Base, Texas. IERA-RS-BR-TR-1999-0006-Vol.1. March; Spicer, C.W. et al., 1984, *Composition and Photochemical Reactivity of Turbine Engine Exhaust*, prepared by Battelle Laboratories, prepared for the Air Force Engineering & Services Center, March.
- Table I-13-14** USEPA Integrated Risk Information System (IRIS), <http://www.epa.gov/iris>, last updated December 2, 2004, accessed December 2004; CalEPA Office of Environmental Health Hazard Assessment (OEHHA), Toxicity Criteria Database, <http://www.oehha.ca.gov/risk/ChemicalDB/>, accessed December 2004; USEPA Risk Screening Environmental Indicators (RSEI) Technical Appendix A, Listing of All Toxicity Weights for TRI Chemicals and Chemical Categories, Office of Pollution Prevention and Toxics, Washington, DC, August 2004; 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-15-65** Environmental Science Associates, Inc. [TPC] analysis, 2004.
- Table I-66** USEPA AirData, <http://www.epa.gov/air/data/geosel.html>.
- Table I-67-68** Environmental Science Associates, Inc. [TPC], 2004.
- Table I-69** USEPA AirData, <http://www.epa.gov/air/data/geosel.html>.
- Table I-70-72** Environmental Science Associates, Inc. [TPC] analysis, 2004.
- 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>
- Attachment 3 Tables 1-15** Environmental Science Associates, Inc. [TPC] analysis, 2004.

8.4.17 Appendix J, Air Quality Reference Documents

1. Memo, O'Hare Modernization Program: Revised Methodology for OMP Construction Traffic, CCT, April 7, 2004.
2. ICAO Annex 16, Volume 2, Part III, Appendix 3, July 1993 with Amendments V13
www.QinetiQ.com/aviation_emissions_databank
3. Derivation of a First Order Approximation of Particulate Matter from Aircraft, Roger Wayson, Gregg Fleming, and Julie Draper, July 2004, Proceedings for the Annual Air and Waste Management Conference and FAA Memorandum, Use of the First Order Approximation to Estimate Aircraft Engine Particulate Matter Emissions in NEPA Documents and Clean Air Act General Conformity Analyses, May 24, 2005..
4. ICAO Annex 16, Volume 2, Part III, Appendix 3, July 1993 with Amendments V13
www.QinetiQ.com/aviation_emissions_databank
5. FAA Memorandum, Use of the First Order Approximation to Estimate Aircraft Engine Particulate Matter Emissions in NEPA Documents and Clean Air Act General Conformity Analyses, May 24, 2005.
6. Procedures for Emission Inventory Preparation, Volume IV: Mobile Sources. U.S. Environmental Protection Agency, Office of Mobile Sources, Ann Arbor, MI. 1992.
7. Mixing Heights, Wind Speed, and Potential for Urban Air Pollution throughout the Contiguous United States, U.S. Environmental Protection Agency, January 1972.
8. Illinois State Implementation Plan, 1990 Ozone Precursors Emissions Inventory for the Chicago Area, November, 1993 (Section 4.3.8 – Aircraft Refueling).
9. Comments of the AQMD Draft Environmental Impact Report No. 573, Civillian Reuse of MCAS El Toro and the Airport System Master Plan for John Wayne Airport and Proposed Orange County International Airport, South Coast Air Quality Management District, AQMD, February 2000.
10. Ground Service Equipment Site Survey, Chicago O'Hare International Airport, Landrum & Brown, Inc., July 2000.
11. U.S. Federal Aviation Administration, 1998. Personal communication between J. A. Draper (Federal Aviation Administration) to J. R. Pehrson (Camp Dresser & McKee Inc.), November 4, 1998. Subject: Air Quality Modeling Protocol for Criteria Pollutants for LAX Master Plan EIS/EIR.
12. http://www.crh.noaa.gov/lot/climate/ord_norms.htm
13. OMP 2002 Surface Transportation Survey, Kimley-Horn and Associates, Inc. [CCT], Revised January 2003.
14. M. Rogers, Illinois Environmental Protection Agency. November 2, 2000.
15. MOBILE5 Information Sheet No. 2: Estimating Idle Emission Factors Using MOBILE5, U.S. Environmental Protection Agency, Office of Air Quality and Radiation, Office of Mobile Sources, Emission Planning and Strategies Division. Ann Arbor, MI. July 1993.
16. Sam Long, IEPA, November 22, 2002.
17. Meeting with IEPA on December 20, 2002.
18. Sam Long, IEPA, November 22, 2002.

19. 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.
20. User's Guide to TANKS, Storage Tank Emissions Calculation Software Version 4.0. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, April 7, 1999.
21. 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.
22. 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.
23. Nonroad Engine and Vehicle Emission Study - Report. U.S. Environmental Protection Agency. Office of Transportation and Air Quality. Research Triangle Park, NC. Report number EPA-460/3-91-02, November 1991.
24. NONROAD, Version 2002, U.S. Environmental Protection Agency, December 2002.
25. Construction Logistics Equipment Plan based on the Airport Layout Plan, AOR/TOK [CCT], March 24, 2004.
26. NONROAD, Version 2002, December, 2002. U.S. Environmental Protection Agency.
27. Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling. Christian E. Lindhjem and Megan Beardsley. U.S. Environmental Protection Agency, Office of Mobile Sources (now Office of Transportation and Air Quality). Report No. NR-005A. December 9, 1997, revised June 15, 1998. (Documentation for NONROAD model development).
28. Correspondence with Landrum and Brown dated July 13, 2004.
29. South Coast Air Quality Management District, CEQA Air Quality Handbook, May 1993. Table A9-9, Estimating PM10 Emissions from Fugitive Dust.
30. Federal Register, Vol. 63, No. 70/April 13, 1998.
31. Introduction and Use of EIIP Guidance for Emissions Inventory Development, EPA-454/R-97-004a, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC. July 1997.
32. U.S. Environmental Protection Agency (USEPA). 2000a. 40 CFR Part 51. Requirements for Preparation, Adoption, and Submittal of State Implementation Plans (Guideline on Air Quality Models); Proposed Rule. Federal Register. 65(78): 21506-21546, April 21, 2000.
33. Email, Rob Kaleel, IEPA, January 6, 2003.
34. <http://www.sws.uiuc.edu/atmos/statecli/General/Illinois-climate-narrative.pdf>
35. Teleconference with IEPA, November 22, 2002.
36. Guideline on Air Quality Models (Revised) with Supplements A and B, EPA-450/2-78-027R, U.S. Environmental Protection Agency, O.A.Q.P.S., Research Triangle Park, NC, July 1, 1997. Codified in 40 CFR Part 51, Appendix W.
37. AIRSData Monitor Values Report, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

38. Guideline for Modeling Carbon Monoxide from Roadway Intersections. EPA-4454/R-92-05, U.S. EPA OAQPS, Research Triangle Park, NC, November 1992.
39. Telephone conversation with Walt Zyzniuski, IDOT, February 14, 2003.

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).
46. 69 FR 23951 (April 30, 2004) (8-hour implementation rule).
47. 69 FR 23954 (April 30, 2004) and 69 FR 23858 (April 30, 2004) (designation and classification rule).
48. 70 FR 944 (January 5, 2005).
49. Federal Register, Vol 66, No. 219, November 13, 2001.
50. Federal Register, Vol 68, No. 178, September 13, 2003.
51. Nonroad Engine and Vehicle Emission Study – Report, USEPA, November 1991
52. Nonroad Engine and Vehicle Emission Study – Report, USEPA, November 1991 (<http://www.epa.gov/nonroad/nrstudy.pdf>)
53. The O'Hare Modernization Program Airfield Service Road Traffic Study Draft Report, Ricondo & Associates, Inc. [CCT] November 2003.
54. The O'Hare Modernization Program [Drainage and Utility Infrastructure Study] Final Draft, Consoer Townsend Envirodine Engineers, [CCT] December 15, 2002.
55. Final Environmental Assessment for the Upgrade of Runways 27L and 27R to a Category II/III Instrument Landing System. FAA, October 1, 2004.
56. FAA Order ORD 7110.118, Land and Hold Short Operations (LAHSO), February 9, 2001.
57. Letter from Rosemarie Andolino, City of Chicago, to Barry Cooper, FAA, December 20, 2004.
58. 58 FR 62188, November 24, 1993.
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.

61. Letter from CATS to FAA dated April 11, 2005 (Included in **Attachment J-4, Final General Conformity Determination – Transportation Conformity Documentation, in Appendix J, Air Quality**, of the OM FEIS).
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.
63. Conference Call, USEPA, IEPA, FAA, November 3, 2004.
64. ICAO Annex 16, Volume 2, Part III, Appendix 3, July 1993 with Amendments (www.QinetiQ.com/aviation_emissions_databank)
65. Ground Service Equipment Site Survey, Chicago O'Hare International Airport, Landrum & Brown, Inc., July 2000.
66. U.S. Federal Aviation Administration, 1998. Personal communication between J. A. Draper (Federal Aviation Administration) to J. R. Pehrson (Camp Dresser & McKee Inc.), November 4, 1998. Subject: Air Quality Modeling Protocol for Criteria Pollutants for LAX Master Plan EIS/EIR.
67. http://www.crh.noaa.gov/lot/climate/ord_norms.htm
68. OMP 2002 Surface Transportation Survey, Kimley-Horn and Associates, Inc. [CCT], Revised January 2003.
69. Guidelines for Evaluating the Air Quality Impacts of Transportation Facilities. North Carolina Department of Environment, Health & Natural Resources, Division of Environmental Management. Raleigh, NC. March 1995.
70. M. Rogers, Illinois Environmental Protection Agency. November 2, 2000.
71. MOBILE5 Information Sheet No. 2: Estimating Idle Emission Factors Using MOBILE5, U.S. Environmental Protection Agency, Office of Air Quality and Radiation, Office of Mobile Sources, Emission Planning and Strategies Division. Ann Arbor, MI. July 1993.
72. Sam Long, IEPA, November 22, 2002.
73. Meeting with IEPA on December 20, 2002.
74. Sam Long, IEPA, November 22, 2002.
75. Nonroad Engine and Vehicle Emission Study - Report. U.S. Environmental Protection Agency. Office of Transportation and Air Quality. Research Triangle Park, NC. Report number EPA-460/3-91-02. November 1991.
76. NONROAD, Version 2.2d, U.S. Environmental Protection Agency, December 2002. The NONROAD model can be downloaded at: <http://www.epa.gov/otaq/nonrdmdl.htm>.
77. The MOBILE model can be downloaded at: <http://www.epa.gov/otaq/m6.htm>
78. Air Quality Analysis Protocol – Criteria Pollutants, O'Hare Modernization Program Environmental Impact Statement, August 5, 2003.
79. Construction Logistics Equipment Plan based on the Airport Layout Plan, AOR/TOK [CCT], March 24, 2004.
80. NONROAD, Version 2.2d, December, 2002. U.S. Environmental Protection Agency.

81. Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling. Christian E. Lindhjem and Megan Beardsley. U.S. Environmental Protection Agency, Office of Mobile Sources (now Office of Transportation and Air Quality). Report No. NR-005A. December 9, 1997, revised June 15, 1998. (Documentation for NONROAD model development).
 82. 40 CFR 93, Subpart B (Section 93.158).
 83. Question 22: General Conformity Guidance for Airports – Questions and Answers, September 25, 2002; Federal Aviation Administration and United States Environmental Protection Agency.
 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.
 85. 40 CFR 93.158(a)(1).
 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.2-3** Environmental Science Associates, Inc. [TPC] analysis of TAAM data (Airport Temporals - Daily Weekly), 2004/2005.
- Table J.2-4** Environmental Science Associates, Inc. [TPC] analysis of TAAM data (Table 4 – Time and Delay Times), 2004/2005.
- Table J.2-5-30** Environmental Science Associates, Inc. [TPC] analysis of TAAM data (Table 7 – Departure Runway Queues), 2004/2005.
- Table J.2-31-56** Environmental Science Associates, Inc. [TPC] analysis of TAAM data (Table 3 – Fleet Mix by Runway), 2004/2005.
- Table J.2-57** Landrum and Brown GSE Survey, February 29, 2000.

- Table J.2-58** Environmental Science Associates, Inc. [TPC] review of information received from Landrum and Brown [CCT], 2004/2005.
- Table J.2-59** Environmental Science Associates, Inc. [TPC] analysis of Surface Transportation (Kimley-Horn – Exhibit 9), 2004/2005; Environmental Science Associates, Inc. [TPC] analysis of Surface Transportation (Kimley-Horn – Exhibit 6-10), 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.2-61A, B** Environmental Science Associates, Inc. [TPC] analysis, 2004/2005.
- 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.2-64** Construction Impacts Draft Technical Working Report, AOR/TOK [CCT], September 2004.
- Table J.2-65** Crawford, Murphy, & Tilly, Inc. [TPC], analysis of information received from the AOR/TOK, December 2004.
- Table J.2-66-70** Environmental Science Associates, Inc. [TPC] analysis, 2004.
- Table J.2-71** Environmental Science Associates, Inc. [TPC] analysis, 2005.
- Table J.2-72-80** Environmental Science Associates, Inc. [TPC] analysis, 2004/2005.
- Table J.2-81** Environmental Science Associates, Inc. [TPC] analysis of IEPA Annual Air Quality Report 1999 – 2001, 2004, IEPA correspondence May 17, 2005.
- Table J.2-82-84** Environmental Science Associates, Inc. [TPC] analysis, 2005.
- Table J.2-85-119** Environmental Science Associates, Inc. [TPC] analysis, 2004/2005.
- Table J.2-120-136** Environmental Science Associates, Inc. [TPC] analysis, 2004.
- 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 5-16	Environmental Science Associates, Inc. [TPC] analysis of TAAM data (Airport Temporals – Daily Weekly), 2004/2005.
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 5-23	2007: Illinois Environmental Protection Agency; OM FEIS: 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.
2. Water Quality, G. Tchobanoglous and E.D. Schroeder, Addison-Wesley, Reading, Massachusetts, 1985.
3. Water Quality, G. Tchobanoglous and E.D. Schroeder, Addison-Wesley, Reading, Massachusetts, 1985.
4. Water Quality Improvement Plan for Chicago O'Hare International Airport, City of Chicago Department of Aviation Planning Section, November 1995.
5. Correspondence from Susan Chi, Illinois State Water Survey, to Peter Mulvaney, Montgomery Watson Harza, April 30, 2003. Regarding data from the groundwater quality database.

Table K-4-5 NPDES Permit No. IL0002283, IEPA, November 19, 1996.

Table K-6 Environmental Evaluation of Technical Working Reports for the O'Hare Modernization Program - Affected Environment, Appendix D, Table D-1, Landrum & Brown [CCT], November 25, 2003.

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-10'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).
4. FAA Order 5050.4A, Airport Environmental Handbook, Paragraph 83b, October 8, 1985.
5. Letter from IHPA to FAA regarding St. Johannes Cemetery, April 29, 2005.
6. Letter from Keeper of the NRHP to the FAA, June 9, 2005.
7. Letter from IHPA to Keeper of the NRHP, June 14, 2005.
8. Letter from IHPA to Keeper of the NRHP, June 24, 2005.
9. Letter from FAA to Keeper of the NRHP, July 7, 2005.
10. Letter from IHPA to FAA, June 24, 2005.
11. Letter from FAA to IHPA, June 27, 2005.
12. 40 CFR Part 81 (<http://www.epa.gov/pmdesignations/documents/final/part81.htm>)
13. <http://www.epa.gov/pmdesignations/documents/120/timeline.htm>.
14. USEPA's AirData: <http://www.epa.gov/air/data/index.html>
15. <http://www.epa.gov/air/urbanair/pm/what1.html>
16. <http://www.epa.gov/air/urbanair/pm/chf.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.
18. Air Quality Analysis Protocol – Criteria Air Pollutants, August 5, 2003.
19. Emissions and Dispersion Modeling System (EDMS) Reference Manual, U.S. Department of Transportation, Federal Aviation Administration, Office of Environment and Energy, Washington, DC. Version 4.12, December 2003.
20. 63 Federal Register 18068 (Monday, April 13, 1998).
21. Fleming, Gregg et al. 2003. "Derivation of a First Order Approximation of Particulate Matter from Aircraft" 96th Annual Conference and Exhibition of the Air and Waste Management Association, San Diego, CA, June 22-26, 2003, Paper #69970 and FAA Memorandum, Use of the First Order Approximation to Estimate Aircraft Engine Particulate Matter Emissions in NEPA Documents and Clean Air Act General Conformity Analyses, May 24, 2005.

22. Nonroad Engine and Vehicle Emission Study – Report, U.S. Environmental Protection Agency, Office of Transportation and Air Quality, Research Triangle Park, NC., Report number EPA-460/3-91-02, November 1991.
23. NONROAD, Version 2.2.0, December, 2002. U.S. Environmental Protection Agency.
24. South Coast Air Quality Management District, CEQA Air Quality Handbook, May 1993. Table A9-9, Estimating PM10 Emissions from Fugitive Dust.
25. 49 U.S.C. Section 303(c).
26. FHWA Section 4(f) Policy Paper, September 1987, Updated June 1989.
27. Letter from FAA to IHPA, June 2, 2005.
28. Village of Bensenville Park District, TPC Field Observations.
29. Village of Bensenville Park District, TPC Field Observations.
30. Village of Bensenville Park District, TPC Field Observations.
31. Letter from IHPA to FAA regarding St. Johannes Cemetery, April 29, 2005.
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.
36. Letter from IHPA to FAA, June 24, 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)
39. Letter from IHPA to FAA, June 22, 2005.
40. Letter from FAA to IHPA, June 24, 2005.
41. <http://history.bensenville.lib.il.us/Churches/StJohn.html>
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. Schwerdtfeger Farmstead Determination of Eligibility, May 20, 2005
2. Architectural Investigation and Determinations of Eligibility for On-Airport Properties, May 20, 2005.
3. Report of Investigations Chicago O'Hare International Airport, O'Hare Modernization Program, Cultural Resource Management Report No. 1145a, Midwest Archaeological Research Services, December 13, 2002.
4. Letter from IHPA to FAA regarding St. Johannes Cemetery, April 29, 2005.
5. Letter from Keeper of the NRHP to the FAA, June 9, 2005.
6. Letter from IHPA to Keeper of the NRHP, June 14, 2005.
7. Letter from IHPA to Keeper of the NRHP, June 24, 2005.
8. Letter from FAA to Keeper of the NRHP, July 7, 2005.
9. Letter from IHPA to FAA, June 24, 2005.
10. Letter from FAA to IHPA, June 27, 2005.
11. Green Street School Determination of Eligibility, April 25, 2005.
12. Gas Service Station Determination of Eligibility, April 22, 2005.
13. Schwerdtfeger Farmstead Determination of Eligibility, May 20, 2005.
14. IHPA review letter of Green Street School DOE, May 10, 2005.
15. IHPA review letter of Gas Station School DOE, May 10, 2005.
16. Letter from IHPA to FAA, June 22, 2005.
17. Letter from FAA to IHPA, June 24, 2005.

8.4.21 Appendix N, Biological and Water Resources Reference Documents

1. Ecoregions of the Upper Midwest States, Report No. EPA/600/3-88/037. J.M. Omernik and A.L. Gallant. U.S. Environmental Protection Agency. September 1988.
2. Guide to the Vascular Flora of Illinois, R.H. Mohlenbrock, Southern Illinois University Press. 1986.
3. Landscape Ecology: Directions and Approaches, P.G. Risser and J.R. Karr and R.T.T. Forman, Special Publ. No. 2, Illinois Natural History Survey, Champaign, IL, 1984; Quantitative Methods in Landscape Ecology, M.G. Turner and R.H. Gardner, Springer-Verlag, New York, 1991.
4. Hazardous Wildlife Attractants On or Near Airports, FAA Advisory Circular 150/5200-33A, Federal Aviation Administration, July 27, 2004.
5. 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.

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
7. Hazardous Wildlife Attractants On or Near Airports, FAA Advisory Circular 150/5200-33A, Federal Aviation Administration, July 27, 2004.
8. Evaluation of Aquatic Habitat, Chicago O'Hare International Airport, R.V. Anderson, Western Illinois University, 1995.
9. Rapid Bioassessment Protocols for Use in Streams and Rivers, Benthic Macroinvertebrates and Fish, U.S. Environmental Protection Agency, 1989.
10. Sample Collection, Identification and Quantification Data, M. Headrick, Montgomery Watson Harza, October-November, 2002.
11. Rapid Bioassessment Protocols for Use in Streams and Wadeable Rivers., Periphyton, Benthic Macroinvertebrates, and Fish, U.S. Environmental Protection Agency, Second Edition, 1999.
12. Des Plaines River Watershed, Illinois Environmental Protection Agency, www.epa.state.il.us/water/water-quality/report-1999/factsheets/watershed-2.pdf
13. Illinois Water Quality Report 1992-1993., IEPA/WPC 94-160, Illinois Environmental Protection Agency, 1994.
14. An Intensive Survey of the Des Plaines River Basin from the Wisconsin State Line to Joliet, Illinois 1983-1984, IEPA/WPC 88-014, Illinois Environmental Protection Agency, 1988.
15. "A biological approach to water quality management." J.R. Chandler, Water Pollution Control 4 (1970):415-422.
16. Biological methods for the assessment of water quality, Special Technical Publication 528, American Society for Testing and Materials, December 1973.
17. Use of Arthropods to Evaluate Water Quality in Streams, W.L. Hilsenhoff, Tech. Bull. No. 100. Wisconsin Department of Natural Resources, 1977.
18. Using a Biotic Index to Evaluate Water Quality in Streams. W.L. Hilsenhoff, Tech. Bull. No. 132. Wisconsin Department of Natural Resources, 1982.
19. "An improved biotic index of organic stream pollution". W.L. Hilsenhoff, The Great Lakes Entomologist 20, no. 1 (1987):31-39.
20. An Intensive Survey of the Des Plaines River Basin from the Wisconsin State Line to Joliet, Illinois 1983-1984, Illinois Environmental Protection Agency, IEPA/WPC 88-014, 1988.
21. Evaluation of Aquatic Habitat, Chicago O'Hare International Airport, R.B. Anderson, Western Illinois University, 1995.
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
24. 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.

25. Animal Damage Control Act of March 2, 1931, 7 U.S.C. §426; Rural Development, Agriculture, and Related Agencies Appropriations Act of 1988, Public Law 100-202, Wildlife Hazard Management Plan, Chicago-O'Hare International Airport, 1992.
26. Environmental Assessment for the Management of Hazards to Public Safety and Aircraft Caused by Wildlife at O'Hare International Airport, United States Department of Agriculture, 1993.
27. Wildlife Hazard Management Plan, U.S. Department of Agriculture, Animal and Plant Health Inspection Service Wildlife Services, July 26, 2002
28. Bird Strike Documentation at O'Hare International Airport, D. Arends. U.S. Department of Agriculture Animal and Plant Health Inspection Services, O'Hare International Airport, data received by email January 6, 2003.
29. "The Demographic Significance of 'Sink' Populations." R.W. Howe, G.J. Davis, and V. Mosca. *Biological Conservation* 57 (1991):239-255.
30. Wildlife Hazard Management Plan of O'Hare International Airport, U.S. Department of Agriculture Columbia, MO. 1993.
31. 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.
32. Chicago O'Hare International Airport Environmental Assessment for the Airport Layout Plan Update Wetland Delineation Report, Hey and Associates, Inc., January 1995.
33. Final Environmental Impact Statement for Chicago O'Hare International Airport, Federal Aviation Administration, 1984.
34. Letter from John Rogner, USFWS, to John Chitty, Harza Engineering Company, September 21, 1999.
35. Letter from Heather Hostetler, IDNR, to John Chitty, Harza Engineering Company, September 28, 1999.
36. Note to File from FAA, November 30, 2004.
37. Letter from John Rogner, USFWS, to Peter Mulvaney, Montgomery Watson Harza, December 23, 2002.
38. Letter from Heather Ryan, IDNR, to Peter Mulvaney, Montgomery Watson Harza, January 6, 2003.
39. Chicago O'Hare International Airport, Eastern Prairie Fringed Orchid Threatened and Endangered Species Survey, Montgomery Watson Harza. August 1, 2003.
40. Chicago O'Hare International Airport, Small Sundrops Threatened and Endangered Species Survey, Montgomery Watson Harza, August 1, 2003.
41. Chicago O'Hare International Airport, Eastern Massasauga Threatened and Endangered Species Survey, Montgomery Watson Harza, August 1, 2003.
42. Transmittal letters to Steve Hamer, IDNR, and Mike Redmer, USFWS, from Peter Mulvaney, Montgomery Watson Harza, August 11, 2003.
43. Letter from Steve Hamer, IDNR, to John Chitty, Montgomery Watson Harza, October 22, 2003.

44. Letter from John Rogner, USFWS, to John Chitty, Montgomery Watson Harza, March 16, 2004.
45. Letter from Steve Hamer, IDNR, to Michael Boland, City of Chicago Department of Aviation, O'Hare Modernization Program Office, June 20, 2005.
46. Personal observations of Red-Shouldered Hawk and Upland Sandpiper by Peter Ames, ornithologist, Harza Engineering, Spring 2001
47. Final Environmental Impact Statement for Chicago O'Hare International Airport, Federal Aviation Administration, 1984.
48. Chicago O'Hare International Airport Draft Environmental Assessment for the Airport Layout Plan Update Wetland Delineation Report, Hey and Associates, Inc., January 1995.
49. Letter from John Rogner, USFWS, to Peter Mulvaney, Montgomery Watson Harza. December 23, 2002.
50. Chicago O'Hare International Airport, Eastern Prairie Fringed Orchid Threatened and Endangered Species Survey, Montgomery Watson Harza, August 1, 2003.
51. Letter from Steve Hamer, IDNR, to John Chitty, Montgomery Watson Harza, October 22, 2003.
52. Letter from John Rogner, USFWS, to John Chitty, Montgomery Watson Harza, March 16, 2004.
53. Chicago O'Hare International Airport, Small Sundrops Threatened and Endangered Species Survey, Montgomery Watson Harza, August 1, 2003.
54. Letter from Steve Hamer, IDNR, to John Chitty, Montgomery Watson Harza, October 22, 2003.
55. Letter from John Rogner, USFWS, to John Chitty, Montgomery Watson Harza, March 16, 2004.
56. A Field Guide to the Birds: A Completely New Guide to All the Birds of Eastern and Central North America (Peterson Field Guides), 4th Edition, R.T. Peterson, Houghton Mifflin Co., Boston, Massachusetts, 1980.
57. Letter from John Rogner, USFWS, to Peter Mulvaney, Montgomery Watson Harza, December 23, 2002.
58. Personal observations of Red-Shouldered Hawk and Upland Sandpiper by Peter Ames, ornithologist, Harza Engineering, Spring 2001.
59. Personal observations of Red-Shouldered Hawk and Upland Sandpiper by Peter Ames, ornithologist, Harza Engineering, Spring 2001.
60. Telephone conversation with Lawrence Schafer, U.S. Department of Agriculture, June 21, 2001.
61. Chicago O'Hare International Airport Environmental Assessment for the Airport Layout Plan Update Wetland Delineation Report, Hey and Associates, Inc., January 1995.
62. Final Environmental Impact Statement, Chicago O'Hare International Airport, Federal Aviation Administration, May 1984.
63. Letter from John Rogner, USFWS, to Peter Mulvaney, Montgomery Watson Harza, December 23, 2002.
64. Telephone conversation between Peter Mulvaney, Montgomery Watson Harza and Sara Hassert, Landrum & Brown, October 16, 2003.

65. Letter from John Rogner, USFWS, to Peter Mulvaney, Montgomery Watson Harza, December 23, 2002.
66. Chicago O'Hare International Airport, Eastern Massasauga Threatened and Endangered Species Survey, Montgomery Watson Harza, August 1, 2003.
67. Letter from Steve Hamer, IDNR, to John Chitty, Montgomery Watson Harza, October 22, 2003.
68. Letter from John Rogner, USFWS, to John Chitty, Montgomery Watson Harza, March 16, 2004.
69. Letter from John Rogner, USFWS, to Peter Mulvaney, Montgomery Watson Harza, December 23, 2002.
70. Telephone conversation between Peter Mulvaney, Montgomery Watson Harza and Sara Hassert, Landrum & Brown, October 16, 2003.
71. Letter from John Rogner, USFWS, to Peter Mulvaney, Montgomery Watson Harza, December 23, 2002.
72. Telephone conversation between Peter Mulvaney, Montgomery Watson Harza and Sara Hassert, Landrum & Brown, October 16, 2003.
73. Wetland Delineation Manual. Technical Report 4-87-1. U.S. Army Corps of Engineers, Environmental Laboratory. 1987.
74. Chicago O'Hare International Airport, Draft Delineation of Wetland and Floodplains Areas, Harza Environmental Services, November 1999.
75. Classification of Wetlands and Deepwater Habitats of the United States. L. M. Cowardin, V. Carter, F. C. Golet, and E.T. LaRoe. December 1979. (Prepared for Office of Biological Services, Fish and Wildlife Service, U.S. Department of the Interior, Washington, D.C. 20240.)
76. Wetland Delineation Report, Hey & Associates, Inc., January 5, 1995.
77. Plants of the Chicago Region, F. Swink and G. Wilhelm, The Morton Arboretum, Lisle, IL., 1979.
78. Final Environmental Impact Statement for Chicago O'Hare International Airport., Federal Aviation Administration. 1984.
79. Draft Wetland Mitigation Plan for the United States Postal Service O'Hare Mail Processing Center, Knight Architects Engineers and Planners, Inc. and Hey & Associates, Inc., January 3, 1991.
80. Final Environmental Assessment for the World Gateway Program and Other Capital Improvement Projects, Federal Aviation Administration, June 2002.
81. Floods in the Arlington Heights, Elmhurst, Park Ridge, and River Forest Quadrangles, Hydrologic Investigations 67, 68, 85, and 106, U.S. Geological Survey, Washington D.C. 1963, 1964, 1966.
82. Wetland Delineation Report, Hey & Associates, Inc., January 5, 1995.
83. Soils Survey of DuPage and Part of Cook Counties, Illinois, D.R. Mapes, U.S. Government Printing Office, 1979
84. National Technical Committee for Hydric Soils, Hydric Soils of the United States, U.S. Government Printing Office, 1991.

85. National Technical Committee for Hydric Soils, Hydric Soils of the United States, U.S. Government Printing Office, 1991.
86. Summary of the Geology of the Chicago Region, H.B Willman. Illinois State Geological Survey, Circ. 460, 1971.
87. Physiographic Divisions of Illinois, M.M. Leighton, G.E. Ekblaw, and C.L. Horberb., Illinois State Geological Survey., Rept. Inv. 129, 1949.
88. Pleistocene Stratigraphy of Illinois., H.B. Willaman and J.C. Frye, Illinois State geological Survey, Bull. 94. 1970.
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.
92. Wetland Delineation Report, Hey & Associates, Inc., January 5, 1995.
93. Plants of the Chicago Region, F. Swink and G. Wilhelm, The Morton Arboretum, Lisle, IL., 1979.
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.
97. Classification of Wetlands and Deepwater Habitats of the United States, L.M. Cowardin, V. Carter, F.C. Golet, and E.T. LaRoe, 1979.
98. Classification of Wetlands and Deepwater Habitats of the United States, L.M. Cowardin, V. Carter, F.C. Golet, and E.T. LaRoe, 1979.
99. Hazardous Wildlife Attractants On or Near Airports, FAA Advisory Circular 150/5200-33, Federal Aviation Administration, May 1, 1997.
100. Flood Hazard Mapping, Federal Emergency Management Agency, Website, <http://www.fema.gov/fhm/fq fld01.shtm>, November 3, 2004.
101. TR20/WSP2, Existing Conditions, Willow-Higgins Reservoir, Both Reservoirs (CD), CTE Engineers, March 27, 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.
104. Lower Des Plaines Tributaries Watershed, Cook, DuPage and Lake Counties, Illinois. U.S. Department of Agriculture Soil Conservation Service. 1987. (The U.S.D.A. Soil Conservation Service is now named USDA Natural Resource Conservation Service.)

105. Chicago O'Hare International Airport, North Airfield Drainage and Pollution Control Study, Consoer Townsend & Associates, 1993.
106. Final Environmental Assessment for Proposed Touhy Avenue Detention Basin, City of Chicago, July 20, 2001.
107. Strategic Planning Study For Flood Control, Crystal Creek, Villages of Franklin Park and Schiller Park, Illinois, Illinois Department of Transportation, Department of Water Resources, March 1991.
108. O'Hare International Airport, South Airfield Drainage Improvements, Project Description, EarthTech, February 2001.
109. Bensenville Ditch Floodway Construction Permit Applications, Illinois Department of Natural Resources, Department of Water Resources, May 1992.
110. Final Site Environmental Assessment United States Postal Service, Facilities Service Center, 606 North Mail Processing Center, Chicago O'Hare International Airport, The Benham Group, August 1989.

- 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-4** An Intensive Survey of the Des Plaines River Basin from the Wisconsin State Line to Olet, Illinois 1983-1984, Illinois Environmental Protection Agency, IEPA/WPC 88-014, 1988.
- 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-7** Unpublished data, Illinois Breeding Bird Atlas Project, 1986-1993.
- Table N-8** Wetland Delineation Report, Hey & Associates, Inc, January 5, 1995; Environmental Assessment, United States Department of Agriculture Animal and Plant Health Inspection Service Animal Damage Control, Edwin R. Hartin – State Director USDA-APHIS-ADC, 1992.
- 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 60007 queried, 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 60007, 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

1. FAA Aerospace Forecasts 2005-2016, USDOT, FAA, Office of Aviation Policy and Plans, p. VIII-4, March 2005.

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]

Table R-8 Environmental Science Associates, Inc. [TPC] analysis, 2004.

8.4.25 Appendix S, Scoping Documentation Reference Materials

1. FAA Order 1050.1E, Environmental Impacts: Policies and Procedures, June 8, 2004.
2. 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, Vol. 67, No. 137, July 17, 2002.
3. O'Hare Modernization Program, Scoping Summary. City of Chicago, December 2002.

8.4.26 Appendix T, Public Outreach and Agency Coordination Reference Documents

1. FAA Community Involvement Policy Statement, April 17, 1995.
2. FAA Order 1050.1E, Environmental Impacts: Policies and Procedures, June 8, 2004.
3. FAA Order 5050.4A, Airport Environmental Handbook, October 1985.
4. Federal Register, Vol. 69, No. 188, September 29, 2004.

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

Preparer	Title	Education/ Registration	Years of Exp.	EIS Responsibility
Federal Aviation Administration (FAA)				
Tom Bennett	Environmental Specialist	BA History MS Political Science	32	Document Review for Compliance with FAA policy and guidance
Anne Christensen	Attorney	BS Biology BA Political Science MEM JD	2	Legal Review
Daphne Fuller	Assistant Chief Counsel, FAA	BA Sociology JD	17	Legal Review
Amy Hanson	Environmental Protection Specialist	BS Environmental Science	8	Noise, Floodplains, Historic Resources, EJ Analysis, Solid and Hazardous Materials, Biotic Communities, Surface Transportation, DOT 4(f)/Section 6(f), Technical Project Management
Richard Kula	Community Planner, Chicago Airports District Office	BS Aviation Administration, MPA Aviation Administration	13	Aviation Planning, Demand-Capacity Analysis, Noise Analysis, Forecasting
Michael MacMullen	Airports Environmental Program Manager	B.S. Biology	30	Air Quality, Wetlands, Water Quality, Public Outreach and EJ Coordination, Cooperating Agency Liaison
Suzan McCarthy	FAA, Air Traffic Program Lead		22	TAAM Review
Chuck Prock	Senior Attorney	BA History JD	20	Legal Review
Philip M. Smithmeyer	Manager, Chicago Airports District Office	BS Civil Engineering	34	EIS Manager
Patrick Wells	Attorney	BS Civil Engineering MS Engineering Management JD	5	Legal Review
Legal Counsel - Sidley Austin Brown & Wood				
Pete Steenland	Counsel	BA Political Science JD	32	Legal Review

Crawford, Murphy & Tilly, Inc. (CMT)– Third Party Contractor, Prime Consultant				
Ambra Deering	Planner	B.S. Aeronautics	4	Biotic Communities, Affected Environment
Matt Demos	Project Engineer	BS Civil Engineering MS Civil Engineering PE	11	Environmental Consequences, Mitigation, Construction Cost Estimation Analysis (*)
Michael Doerfler	Senior Vice President	BS Civil Engineering	29	Construction Cost Estimation Analysis (*)
Cassandra Gray	Engineer	BS Civil Engineering	1	Chapter 8
Bruce Jacobson	Senior Vice President	BS Industrial Education	28	Project Manager for FAA's Third Party Contractor
Brian Mohr	Senior Engineer	BS Civil Engineering PE	5	Project Management, Chapter 3 Alternatives
Scott Noel	Planner	BA Geography	4	GIS analysis
Neil Ralston	Planner	BS Aviation Management and Flight Technology CM	4	Aviation forecast, Chapter 3 Alternatives
Bruce Ratterree	Consultant	BS Civil Engineering	40	Construction impact assessment, schedule and cost estimation analysis (*)
Laura Sakach	Project Engineer	BS Civil Engineering PE, AICP	16	Deputy Project Manager for FAA's Third Party Contractor
Lana Sumner	Planner	BS Aeronautics-Aeronautical Administration	13	Biotic Communities, Affected Environment
Brian Whiston	President	BS Civil Engineering	34	Construction Cost Estimation Analysis (*)
(*) 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.				

BPS Staffing (BPS) – Third Party Contractor, Sub-Consultant				
DeLonda Dowling <i>Left to take employment with another company.</i>	Administrative Manager	BA Fine Arts	14	Document management
Clean World Engineering (CWE) – Third Party Contractor, Sub-Consultant				
Mary Floyd	Principal Analyst	BS	22	Solid and Hazardous Waste
Rita Kapur	President	BS Biology	31	Solid and Hazardous Waste
David Keene	Senior Archaeologist	BS Anthropology MA Philosophy MS Anthropology PhD Anthropology RPA	30	Historic, Architectural, Archaeological, and Cultural Resources; Sections 4 (f) and 6 (f)
Karen Poulson	Principal Investigator	BA Anthropology MA Anthropology	12	Historic, Architectural, Archaeological, and Cultural Resources; Sections 4 (f) and 6 (f)

Riyaz Syed	Environmental Engineer	BS Agricultural Science MS Environmental Toxicology MS Environmental Engineering	10	Solid and Hazardous Waste
Environmental Science Associates (ESA) – Third Party Contractor, Sub-Consultant				
Rick Alberts	Vice President	BS Civil Engineering PE	35	Project management and technical review
Michael Arnold	Director	BS Civil Engineering	15	Alternatives analysis
David Full	Director	BA Urban Planning Master's Urban Planning	20	Affected Environment/Environmental Consequences ESA Manager
Mike Ratte	Senior Associate	BS Meteorology	15	Air quality technical analysis
Robert Vranka	Senior Technical Associate	BS Physics and Chemistry PhD Chemical Physics	28	Air Quality Technical Analysis
GSG Environmental, Inc. (GSG) – Third Party Contractor, Sub-Consultant				
Roberto Carmona	Engineer	MPA MA Political BA	15	Environmental justice analysis
Arturo Saenz	Vice President	BS Electrical Engineering	17	Environmental justice impact assessment
Harris Miller Miller & Hanson (HMMH) – Third Party Contractor, Sub-Consultant				
David A. Crandall	Senior Consultant	BS Aeronautical Engineering	6	Airspace noise analysis
Alan G. Hass <i>Left to take employment with another company.</i>	Vice President	BS Engineering Science PE	26	Noise and Airspace Consulting
Christopher W. Menge	Principal Consultant	BS Physics	32	Technical Memorandum coordinator, lead role on composite noise
Robert L. Miller	Senior Vice President	BA Mathematics	37	Principal-in-charge March 2004 through end of project
Eugene M. Reindel	Senior Consultant	BS Physics Engineering MS Acoustic Engineering	14	Noise impact analysis
Individual Consultant – Federal Aviation Administration (Third Party Contractor)				
Pete Salmon	Senior Analyst		38	FAA's Contractor for Runway Safety
Individual Consultant – Third Party Contractor, Sub-Consultant				
Dr. Richard de Neufville	Professor , Engineering Systems and Civil/Environmental Engineering MIT	BS, MS, PhD	40	Alternatives, Consultant

Individual Consultant – Third Party Contractor, Sub-Consultant				
Dr. Chung Hsien Sung	Associate Professor in Statistics	BS, MS, PhD	18	Statistical Analysis for Environmental Justice
Jacobs Engineering Group – Third Party Contractor, Sub-Consultant				
Mit Jha <i>Left to take employment with another company.</i>	Senior Modeler	BS Civil Engineering MS Civil Engineering PhD Civil Engineering	15	Traffic Analysis
Steven J. Mikottis <i>Left to take employment with another company</i>	Senior Engineer	BS Civil Engineering PE	20	Project Manager For Jacobs Civil Inc. / Surface Transportation
Xin Tian <i>Left to take employment with another company.</i>	Senior Modeler	BS Management Information Systems MS Transportation Systems Analysis PhD Transportation Modeling	12	Traffic Analysis
Mark Wegener	Senior Modeler	BS Civil Engineering MS Transportation Engineering PE	12	Road and Rail Noise Analysis
KB Environmental – Third Party Contractor, Sub-Consultant				
Carrol Bryant	President	BA Geography	26	Air quality project manager
Leigh Fisher Associates (LFA) – Third Party Contractor, Sub-Consultant				
Eric Bernhardt	Senior Associate	BS Aviation Management	12	Review of noise modeling, assistance with alternatives analysis
Larry Coleman	Senior Associate	BS Environmental Design MCRP – City & Regional Planning	24	Preparation of noise impact analysis and documentation
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.
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.

Christopher Oswald	Associate Director	BS Civil Engineering MS Civil Engineering (Transportation)	10	Review of TAAM modeling results, assessment of airfield demand-capacity issues
Mark D. Taylor	Principal	BS Economics MA Economics	17	Preparation of aviation demand forecasts, review of socioeconomic analysis, financial feasibility (**).
William J. Willkie <i>Left to take employment with another company.</i>	Principal Associate	BA Architecture MS City Planning (Environmental) AICP	24	Project management, assistance with preparation of documentation, review of TPC technical analyses.
(**) 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.				
Ralph G. Moore Associates – Third Party Contractor, Sub-Consultant				
Jeanne Bloom	Senior Consultant	BA History and Finance	23	Social impacts
Synergy Consultants, Inc. – Third Party Contractor, Sub-Consultant				
Mary Vigilante	President	BS Mathematics	26	Purpose and Need, Alternatives, Quality Assurance Review, Cumulative Effects, DOT Section 4(f)/6(f) Evaluation

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

Advisory Council on Historic Preservation	U.S. Army Corps of Engineers
Federal Aviation Administration	U.S. Department of Agriculture
Federal Emergency Management Agency	U.S. Department of Education
Federal Energy Regulatory Commission	U.S. Department of Energy
Federal Highway Administration	U.S. Department of Health and Human Services
Federal Railroad Administration	U.S. Department of Housing and Urban Development
Federal Transit Administration	U.S. Department of the Interior
National Oceanic & Atmospheric Administration	U.S. Department of Transportation
National Park Service	U.S. Environmental Protection Agency
U.S. Council on Environmental Quality	U.S. Fish and Wildlife Service

8.6.2 State Agencies

Illinois Commerce Commission	
Illinois Department of Agriculture	School District 299
Illinois Department of Commerce and Economic Opportunity	School District 401
Illinois Department of Natural Resources	School District 59
Illinois Department of Transportation	School District 63
Illinois Environmental Protection Agency	School District 80
Illinois Historic Preservation Agency	School District 81
Illinois State Toll Highway Authority	School District 84
Illinois State Water Survey	School District 84.5
Joint Action Water Agency	School District 85.5
Northwestern Indiana Regional Planning Commission	School District 86
Office of the Illinois Attorney General	School District 87
School District 214	Soil and Water Conservation District
School District 234	Southeastern Wisconsin Regional Planning Commission

8.6.3 Local Agencies and Organizations

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

DuPage County Stormwater Committee	Mount Prospect Chamber of Commerce
DuPage Mayors and Managers Conference	Natural Resource Conservation Service
DuPage Water Commission	Northeastern Illinois Planning Commission
Gary/Chicago Airport	North Suburban Alliance for Commerce and Industry (NSACI)
Greater O'Hare Association of Industry and Commerce	Northwest Municipal Conference
Greater North Michigan Avenue Association	O'Hare Modernization Program
Greater Palatine Chamber of Commerce	O'Hare Noise Compatibility Commission
Greater State Street Council	Pace and Suburban Bus Service
Joliet/Will County Center for Economic Development	Porter County, Indiana
Kane County Department of Development	Regional Transportation Authority
Lake County	Rolling Meadows Chamber of Commerce
Lake County Chamber of Commerce	Rosemont Chamber of Commerce
Lake County Department of Planning, Building, and Development	Rosemont Convention Bureau
Lake County Planning Commission	Schaumburg Business Association
Lake County Stormwater Management Commission	Southwest Conference of Mayors
McHenry County Department of Planning and Development	St. Joseph County Airport Authority
METRA	Union Pacific Railroad
Metropolitan Mayors Caucus	United Business Association of Midway
Metropolitan Planning Council	Visit Illinois
Metropolitan Water Reclamation District of Greater Chicago	West Central Association
Midwest High Speed Rail Coalition	West Central Municipal Conference
	Wheeling/Prospect Heights Chamber of Commerce
	Will County Land Use Department
	World Business Chicago

8.6.4 Municipalities (Mayor or Village President)

City of Carol Stream	City of Evanston
City of Chicago	City of Harvey
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	Village of Hanover Park
City of Northbrook	Village of Harwood Heights
City of Northlake	Village of Hazel Crest
City of Oak Forest	Village of Hillside
City of Park Ridge	Village of Hoffman Estates
City of Rolling Meadows	Village of Homewood
City of Round Lake	Village of Indian Head Park
City of St. Charles	Village of Inverness
City of Villa Park	Village of Itasca
City of Wheaton	Village of Justice
City of Wood Dale	Village of La Grange Park
Village of Addison	Village of Lansing
Village of Alsip	Village of Lombard
Village of Arlington Heights	Village of Lynwood
Village of Bartlett	Village of Maywood
Village of Batavia	Village of Melrose Park
Village of Bellwood	Village of Merrionette Park
Village of Bensenville	Village of Morton Grove
Village of Berkley	Village of Mount Prospect
Village of Bloomingdale	Village of Mundelein
Village of Bolingbrook	Village of New Lenox
Village of Broadview	Village of Niles
Village of Buffalo Grove	Village of Norridge
Village of Calumet Park	Village of North Riverside
Village of East Hazel Crest	Village of Oak Lawn
Village of Elmwood Park	Village of Oak Park
Village of Elk Grove	Village of Palatine
Village of Forest Park	Village of Palos Hills
Village of Franklin Park	Village of River Forest
Village of Glen Ellyn	Village of River Grove
Village of Glendale Heights	Village of Roselle
Village of Glenview	Village of Rosemont
Village of Green Oaks	Village of Sauk Village

Village of Schaumburg

Village of Schiller Park

Village of Skokie

Village of Sleepy Hollow

Village of Steger

Village of Stone Park

Village of Thornton

Village of Vernon Hills

Village of Western Springs

Village of Wheeling

Village of Willow Springs

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

Paul Froehlich, House District 56
 Carolyn Krause, House District 66
 Joseph Lyons, House District 19
 Michael McAuliffe, House District 20
 Rosemary Mulligan, House District 65
 Angelo Saviano, House District 77
 Dan Cronin, Senate District 21
 James DeLeo, Senate District 10
 Wendell Jones, Senate District 27
 Carole Pankau, Senate District 23
 Carol Ronen, Senate District 7

Christine Radogno, Senate District 41
 Ira Silverstein, Senate District 8
 Miguel del Valle, Senate District 2
 Iris Martinez, Senate District 20
 Kathleen Wojcik, Senate District 28
 Dave Sullivan, Senate District 33
 Don Harmon, Senate District 39
 Thomas Allen, Ward 38 Alderman
 William Banks, Ward 36 Alderman
 Brian Doherty, Ward 41 Alderman
 Patrick Levar, Ward 45 Alderman

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 Liasons 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

Suburban O'Hare Commission

Transwestern Commercial Services

Tuckpointers Union Local 52

University of Illinois at UC

Vanasse Hangen & Brustlin, Inc.

Visit Illinois

Waste Management

8.7 INDEX

Advanced Landside Performance System

(ALPS)

5.3-9, 5.3-11

Air Traffic Control or Airport Traffic Control (ATC)

1-17-18, 1-32, 3-11, ES-7

Aircraft Rescue and Fire Fighting (ARFF)

1-9, 1-42-43, 2-34, 5.6-57, 5.9-16, 5.19-11, 5.19-18, 5.20-22, 6-34

Airline Alliance

1-11

Airport Capacity Benchmark Report

1-13, 1-18, 1-31, 3-13

Airport Improvement Program (AIP)

1-2, 1-55-56, ES-3, ES-52

Airport Layout Plan (ALP)

1-2, 1-8, 1-23, 1-39, 1-42-44, 1-50-52, 1-56, 2-7, 3-7, 5.0-4-5, 5.18-4, 5.20-3, 5.20-12, 5.20-16, 5.20-20, 5.22-1, 5.22-3-4, 5.22-6, 6-6, ES-1-3, ES-50

Airport Transit System (ATS)

1-5, 1-9, 1-11, 1-47-48, 2-32, 5.3-13-15, 5.3-17, 5.6-57, 5.20-9-11, 5.20-13, 5.20-15, 5.20-17, 5.20-19, 5.20-28 6-17, 6-26, 6-30

Alliance Partner

1-11, 2-22, 3-15, 3-16

American (American Airlines)

1-4, 1-10-11, 1-25, 1-31, 1-35, 2-19, 2-20, 2-26, 2-28, 3-27, 3-64, 5.8-34, 5.8-36, 5.8-40, 5.9-17, 5.19-11, 5.20-23, ES-9

Area of Potential Effect (APE)

5.9-1-4, 5.9-6-7, 5.9-10-11, 5.9-13, 5.9-26, 5.9-28-29, ES-40

Arrival Bank

1-26, 1-28

Automated People Mover (APM)

1-47-48

Average Annual Delay

2-2-3, 2-12, 2-15-16, 2-23, 3-12, 3-16, 3-37, 3-40-41, 3-56-58, 3-60-63, 3-86-87, 5.0-3, 5.8-28, 5.17-7, ES-21-22, ES-47, ES-54-55

Aviation System Performance Metrics (ASPM)

2-2-5, 2-11-13, 2-15, 2-19, 3-12

Avigation Easement

1-42-43, 1-49-51, 5.4-2, 5.4-15-16, 5.4-23, 5.8-27, 5.9-28, 5.16-1, ES-37

Balmoral Avenue

1-46, 5.3-12-13, 5.3-15, 5.3-19, 5.3-21-23, 5.3-28, 5.3-30-32, 5.3-37, 5.3-39-41, 5.3-44-45, 5.3-47-49, 5.3-53, 5.3-55-57, 5.10-6, 6-6, 6-31-32, 7-50

Benefit-Cost Analysis (BCA)

1-56

Bessie Coleman Drive

1-46-48, 5.3-12-13, 5.3-18-23, 5.3-28-32, 5.3-34, 5.3-37-41, 5.3-44-49, 5.3-51, 5.3-53-57, 5.3-59, 5.3-63, 5.9-16, 5.18-5, 5.20-11, 5.20-15, 5.20-19, 5.20-38, 5.21-54, 5.21-62, 5.21-69, 6-15, 6-29, 6-31, 7-5-6, 7-39, 7-49-50, 7-55, 7-66, ES-39

Best Management Practice (BMP)

5.7-6, 5.7-12-13, 5.7-15, 5.7-17, 5.7-21, 5.12-12, 5.19-10, 5.20-47, 5.20-55-56, 6-18, 6-24, 7-11, 7-31-32, 7-64, 7-67-68

Blended Alternative

3-1, 3-29-35, 3-37-44, 3-64-65, ES-14-17, ES-19

Canadian Pacific Railway (CP)

3-47, 3-49, 3-51, 3-53, 5.3-17-18

Capital Improvement Projects (CIP)

1-53-55, 5.20-3, ES-61-62

CERCLA

5.19-1-2, 5.19-9

CERCLIS

5.19-6, 5.19-9, 5.19-11

Chicago Airport System 1-14, 1-19-20, 1-36-37, 2-5, 2-32	1-2, 7-4, 7-47-48, 7-64, 7-66, ES-23, ES-28, ES-48
Chicago Area Transportation Study (CATS) 1-2, 2-35, 4-14, 5.3-2-3, 5.3-6-7, 5.3-9-10, 5.3-61, 5.5-10, 5.6-54, 6-8, 6-10, 6-15, 7-1, 7-7, ES-4	Compensatory Wetlands 5.12-15, 7-24-25
Chicago Center (ZAU) 2-6, ES-21	Compressed Schedule 5.0-7, 5.1-9, 5.1-18, 5.1-20, 5.1-29, 5.1-46, 5.3-34-35, 5.3-43, 5.3-51, 5.6-21, 5.6-33, 5.20-4, 5.20-6, 5.20-12, 5.20-25, 5.20-29, 5.20-36, 5.20-38, 5.20-44, ES-45
Chicago Market Area 1-1, 1-5, 1-18, 1-23, 1-25, 1-38	Conditional Letter of Map Revision (CLOMR) 5.13-1-2, 5.13-7-8
Chicago Terminal Airspace Project (CTAP) 1-17, 3-46, 6-4, 6-33	Conformity 5.4-1, 5.6-2-4, 5.6-19, 5.6-23, 5.6-35, 5.6-39, 5.6-44, 5.6-50, 5.6-54-55, 5.23-1, ES-5-6, ES-30, ES-34-35, ES-56
Chicago Transit Authority (CTA) 1-5, 1-11, 2-7, 5.3-2, 5.3-14, 5.3-17, 5.3-62, 5.8-18, 5.9-12-13, 5.9-15, 5.9-19-20, 5.9-30-32, 5.17-3, 5.19-8, 6-2, 6-8-9, 6-15, 6-26, 7-8, ES-29	Conformity Determination 5.6-3, 5.6-19, 5.6-54-55, ES-5-6, ES-34-35, ES-56
Chicago's Consultant Team (CCT) 1-3-4, 1-30, 1-42-44, 1-49-50, 2-3, 2-16, 2-23-24, 2-27, 3-7, 3-39, 3-42, 4-22, 5.0-4-5, 5.1-7, 5.3-1, 5.3-6, 5.3-12-15, 5.3-19, 5.3-23, 5.3-28, 5.3-32, 5.3-34, 5.3-37, 5.3-41, 5.3-43, 5.3-45, 5.3-49, 5.3-51, 5.3-53, 5.3-57, 5.3-59, 5.4-11-12, 5.4-15-19, 5.4-25, 5.5-3, 5.5-9-12, 5.6-24, 5.6-34, 5.7-14, 5.9-7, 5.9-21, 5.12-6-7, 5.12-9, 5.12-15, 5.13-2, 5.17-3, 5.17-5-6, 5.17-8, 5.17-11, 5.19-8, 5.19-13, 5.19-18, 5.20-1, 5.20-6-8, 5.20-12, 5.20-20, 5.20-23-24, 5.20-26, 5.20-28, 5.20-34, 5.20-37, 5.20-39-40, 5.20-43, 5.20-45, 5.20-50, 6-14, 6-23, 7-67, ES-2, ES-21	Congestion Management 3-5-6, 3-27-30, 3-32-33, 3-35, 3-43, 3-62-64, 5.3-2, ES-5, ES-14, ES-16
Clean Air Act (CAA) 5.6-1-4, 5.6-10, 5.6-19, 5.6-23, 5.6-54, 5.21-51, 5.23-1, 6-2, 6-33, ES-6, ES-30, ES-34-35	Connecting Hub 1-4, 1-18, 1-25-26, 1-30, 1-55, 2-6, 2-23, 2-27-28, 3-5, 3-13, 3-20, 3-26-27, ES-9, ES-15, ES-52
Clean Water Act (CWA) 3-36, 5.7-1, 5.7-3, 5.12-1-4, 5.12-11, 5.20-2, 5.22-7, 7-21, ES-4, ES-18, ES-41	Connectioning Passenger 1-16, 1-18, 1-24-26, 2-36, 3-5, 3-26-27, ES-13
Commercial Vehicle Holding Area (CVHA) 1-48, 5.3-15, 5.3-17, 5.3-19-20, 5.3-28-30, 5.3-37-39, 5.3-45-47, 5.3-54-55, 6-27	Consolidated Rental Car Facility 1-47, 5.20-5, 5.20-11, 5.20-15, 5.20-19, 6-30
Compatible Land Use 4-1, 4-4, 5.0-1, 5.1-2-4, 5.1-10, 5.1-15-16, 5.1-24-25, 5.1-37-38, 5.1-40, 5.1-42, 5.1-54-55, 5.1-57, 5.1-59, 5.2-1-2, 5.2-4-5, 5.21-11-12, 6-13, 6-36, 7-	Council on Environmental Quality (CEQ) 1-2, 2-1, 3-1, 3-37, 5.15-1, 5.21-3-4, 6-1-2, ES-14, ES-18
	Criteria Pollutant 5.6-1, 5.6-22-23, 5.6-26, 5.6-55, 5.21-51, 6-16
	CTA Blue Line 2-7, 5.3-14, 5.3-62, 6-15, 6-26, 7-8, ES-29
	Cultural Resource 5.0-1, 5.4-26, 5.8-40, 5.9-1, 5.9-4, 5.9-6, 5.9-8-10, 5.9-22, 5.9-25-26, 5.9-28, 6-19, 6-37, 7-1, 7-18-19, 7-62, ES-48

Cumulative Impact

1-4, 1-18, 2-35, 4-4, 4-25, 6-1, 6-12-13, 6-15, 6-18-20, 6-22-34

Day-Night Average Sound Level (DNL)

3-56-58, 3-60, 3-86, 5.1-1, 5.1-3-6, 5.1-8, 5.1-10-12, 5.1-15-21, 5.1-24-33, 5.1-37-49, 5.1-54-68, 5.2-2, 5.2-4-14, 5.2-16-28, 5.4-5, 5.8-5, 5.8-18-25, 5.8-37, 5.9-3-4, 5.9-7, 5.9-10, 5.9-29-31, 5.21-5, 5.21-11, 5.21-19-42, 5.21-44-69, 6-11, 6-18, 7-3-5, 7-38, 7-41-48, 7-61-62, ES-23-28, ES-38-39, ES-47, ES-54

Delay Cost

2-33, 3-39-42, 3-44, 3-56, 3-58, ES-19, ES-47

Delay Reduction

1-16-18, 2-2, 2-16-18, 2-21, 3-6, 3-12, 3-39-44, 3-58, 3-60-61, 3-64, 3-75, 5.8-28, 5.17-7, 5.22-6, 5.22-7, 5.22-8, ES-19, ES-54-59

Delayed Schedule

5.0-7, 5.1-9, 5.1-18-19, 5.1-27-28, 5.1-44-45, 5.1-61, 5.1-63, 5.3-23, 5.3-34, 5.3-43, 5.3-51, 5.3-59, 5.6-20-21, 5.6-32, 5.20-5, 5.20-7, 5.20-16, 5.20-25-26, 5.20-28-29, 5.20-34, 5.20-36, 5.20-38, 5.20-44, ES-45

Delta Cargo

5.20-10, 5.20-14, 5.20-18

Department of Transportation (DOT)

1-2, 1-25, 1-36-37, 1-45, 2-3, 2-19, 2-22, 2-29, 2-33, 2-35-36, 3-18, 3-56, 3-85, 5.0-1, 5.1-6, 5.2-4, 5.3-2, 5.3-59-61, 5.4-2, 5.7-4, 5.8-1, 5.12-1-2, 5.13-2-3, 5.18-1, 5.19-4, 5.20-2, 5.20-37-38, 5.20-44-45, 5.20-50, 5.21-1-5, 5.21-65, 5.21-69, 5.21-70, ES-4, ES-40, ES-47-48, ES-54

Departure Bank

1-26, 1-28

Dispersion Modeling

5.6-20, 5.6-22-23, 5.6-26, 5.6-28, 5.6-32-33, 5.6-36, 5.6-40, 5.6-41, 5.6-45-47, 5.6-51-53, 5.6-63, 5.6-67-69, 5.8-25, ES-6, ES-30-34

Eastside Collateral Development

5.3-9, 5.20-3, 5.20-11, 5.20-15, 5.20-19, 6-31

Elgin-O'Hare Expressway

6-9, 6-21-22

Elmhurst Road

5.3-7, 5.3-12, 5.3-15, 5.3-19-21, 5.3-28-30, 5.3-36-39, 5.3-45-48, 5.3-53-55, 5.3-62-63, 5.18-8-10, 5.20-37, 5.20-42, 5.20-44, 5.21-54, 5.21-61-62, 6-8-9, 6-15, 6-32, 7-8, 7-49, 7-52-53

Emission Inventories

5.6-4, 5.6-8, 5.6-10, 5.6-20, 5.6-22-24, 5.6-31, 5.6-34, 5.6-38, 5.6-42-43, 5.6-48-49, 5.6-59, 5.6-63

Emissions and Dispersion Modeling System (EDMS)

5.6-23, 5.6-28, 6-16, ES-31, ES-33

EMME/2

5.3-9

Endangered and Threatened Species

5.10-1, 5.11-3, 6-20-21, 6-37

Energy Supply and Natural Resources

5.0-1, 6-23, 6-38, 7-66, ES-43

Enplaned Passenger

1-4-5, 1-23, 1-26, 1-36-39, 2-28, 3-33-35, 3-57, 5.0-3, 5.19-2, 5.19-4, 5.19-15-17, 5.19-20, 6-15, ES-9, ES-12, ES-43

Environmental Justice

3-56-60, 4-11, 5.0-1, 5.1-1, 5.2-1, 5.4-1-4, 5.4-23, 5.4-27, 5.5-1, 5.5-11, 5.21-1-5, 5.21-7-14, 5.21-17-19, 5.21-24, 5.21-26, 5.21-50-53, 5.21-63, 5.21-65-66, 5.21-68-71, 6-24, 6-39, 7-1, 7-35, 7-38-40, 7-64-66, ES-1, ES-4, ES-6, ES-38-40, ES-46, ES-47, ES-49

Farmland

6-22-23, 6-38, 7-66, 5.0-1, 5.10-2, 5.16-1

Federal Inspection Services (FIS)

1-9, 1-20, 2-32, 3-14

Finding of Suitability to Transfer (FOST)

1-11, 5.19-6

Fleet Mix

1-32, 1-35, 2-15, 2-34, 3-75, 5.0-8, 5.2-1, 5.6-33, 5.6-43, 5.6-49, 5.22-7, ES-45

Flight Plan

2-3, 2-10, 2-13, 2-18 – 19, 3-12, ES-7

Flood Insurance Rate Map (FIRM)

5.13-6, 5.16-6

Floodplain

3-36, 3-56, 3-86, 4-22-24, 5.7-18, 5.7-20, 5.11-4, 5.12-5-6, 5.13-1-8, 5.14-1, 5.15-1, 5.15-5, 5.20-56, 6-22, 6-28-29, 6-38, 7-31, 7-66, ES-18, ES-43, ES-47, ES-54

Fly Quiet Program

5.1-67-68, 5.21-69, 6-31, 7-2-3, 7-38, 7-41-46

Former Military Site

1-11, 5.19-11, 6-5

Funding

1-1-2, 1-52, 1-54-57, 3-39, 4-14, 5.1-4, 5.2-27, 5.3-2, 5.3-61, 5.4-5, 5.22-5, 5.23-1, 7-4, 7-7, ES-1, ES-3, ES-23, ES-50, ES-52 – 53

Gary/Chicago International Airport (Gary or GYY)

1-20-22, 1-35, 1-38-39, 2-5, 2-36, 3-20, 3-23, 6-7

General Airport Revenue Bonds (GARBs)

1-55, ES-52

General Conformity Rule

5.6-3, 5.6-54 – 55, ES-34

Geographic Information System (GIS)

5.1-5, 5.8-4-5, 5.21-5, 5.21-12

Ground Noise

5.1-1, 5.1-63, 6-27

Ground Water

5.12-2

Hardstand

1-9, 2-32

Hazardous Air Pollutants (HAPs)

5.4-5, 5.6-1, 5.6-23, 5.6-26, ES-35-36

Hazardous Material

5.0-1, 5.7-13, 5.19-3, 5.19-6, 5.19-10-11, 5.19-16-17, 5.19-20, 5.20-2, 5.20-55, 6-24, 7.31, ES-44

Hazardous Waste

4-1, 5.7-13, 5.9-1-3, 5.19-6, 5.19-9-11, 5.19-14, 5.19-16, 5.19-20, 5.20-2, 5.20-21, 5.20-40, 5.20-47, 6-25, 6-38, 7-26, 7-63, 7-66, ES-43, ES-45

Helipad

6-26, 6-29

High Density Rule (HDR)

2-18, 6-34, ES-10

High Speed Rail

3-4, 3-18

Historic Properties

3-85, 5.1-7, 5.1-13-14, 5.1-19, 5.1-22-23, 5.1-28, 5.1-33-36, 5.1-45, 5.1-50-53, 5.1-62, 5.2-5-7, 5.2-9-10, 5.2-13-14, 5.2-18-19, 5.2-21, 5.2-24, 5.8-1, 5.8-3, 5.8-6, 5.8-18, 5.8-38, 5.9-1-3, 5.9-6-13, 5.9-25-32, 6-18, 7-17, 7-47-48, 7-62, ES-40, ES-54

I-190

1-5, 1-7, 1-21, 1-45-46, 1-48, 2-7, 3-7, 3-47-50, 3-51, 4-5, 4-6, 4-9-10, 4-13, 4-19, 5.0-4-5, 5.1-17, 5.1-26, 5.1-37, 5.1-39-41, 5.1-43, 5.1-54-60, 5.2-8, 5.3-12-14, 5.3-16, 5.3-19-23, 5.2-26, 5.3-8, 5.3-12-14, 5.3-16, 5.3-19-23, 5.3-28-33, 5.3-37, 5.3-42-51, 5.3-53-58, 5.6-25, 5.6-30, 5.7-4, 5.7-8, 5.8-8, 5.8-10, 5.8-13-16, 5.9-12, 5.18-4-10, 5.19-10, 5.20-50, 5.21-45-49, 5.21-55-60, 6-5-6, 6-8, 6-32, 7-27, 7-49, 7-53, ES-25-27

Illinois Environmental Protection Agency (IEPA)

1-2, 5.3-2, 5.3-11, 5.6-1, 5.6-3-4, 5.6-8, 5.6-10-12, 5.6-14-19, 5.6-22-24, 5.7-2-3, 5.7-5-7, 5.7-12, 5.7-15, 5.7-21, 5.12-1, 5.12-3-5, 5.7-12, 5.7-15, 5.7-21, 5.12-1, 5.12-3-5, 5.12-11, 5.12-13, 5.19-4-5, 5.19-9-10, 5.20-2, 5.20-55, 5.21-2-3, 7-1, 7-11, 7-21, 7-23, 7-31, ES-4, ES-30-31, ES-33-35, ES-41-42, ES-49

Illinois State Toll Highway Authority (ISTHA)

1-2, 2-35, 5.3-2, 5.3-60-61, 5.20-50, 5.21-70, 6-8, 7-1, 7-6-7, 7-27, 7-36, 7-39, 7-50, 7-65-66, ES-4

Initial Screening

3-1, 3-12, 3-16-17, 3-29-33, 3-36, 3-38, 3-43-44, 3-63-64, ES-6, ES-14-18

Instrument Flight Rules (IFR)

1-5, 1-31, 2-10-12, 2-15-16, 2-23-24, 2-26-27, 3-5, 3-13, 3-16, 3-40, 3-46, 3-65, 3-68, 3-70-76, 3-78, 3-80, 3-82-84, 5.22-8-9, 6-34

Instrument Landing System (ILS)

3-45, 6-5

Integrated Noise Model (INM)

5.1-2, 5.1-5, 5.1-8, 5.1-15-17, 5.1-24-25, 5.1-37-43, 5.1-54-60, 5.1-63, 5.2-8, 5.2-11, 5.2-16-17, 5.2-20, 5.2-23, 5.2-25-26, 5.21-24, ES-25-28

Irving Park Road

1-46-49, 3-49, 3-51, 3-53, 3-73, 4-18, 5-1-64, 5.3-7, 5.3-12-13, 5.3-15, 5.3-18, 5.3-20-21, 5.3-23, 5.3-27-30, 5.3-39, 5.3-43-47, 5.3-52-55, 5.3-59-63, 5.6-32-33, 5.6-47-48, 5.6-53-54, 5.6-69, 5.7-6, 5.7-15, 5.8-34, 5.9-23, 5.9-25-26, 5.10-6, 5.13-5-6, 5.18-4, 5.18-7-8, 5.18-10, 5.20-10, 5.20-14, 5.20-18, 5.20-35-38, 5.20-42, 5.20-44, 5.21-54, 5.21-61-62, 5.21-70, 5.22-2, 6-5, 6-15, 6-26, 6-32, 7-5-8, 7-39, 7-49-50, 7-52, 7-65-66, ES-29, ES-34, ES-39

JAWA

5.20-9, 5.20-13, 5.20-17, 5.20-45

Land Acquisition Area

3-56, 5.0-4-5, 5.4-3, 5.4-11-13, 5.4-23, 5.9-11, 5.9-22, 5.10-11, 5.10-13, 5.10-16, 5.18-4, 5.21-17, 7-53-56, ES-36, ES-47

Land and Hold Short Operations (LAHSO)

2-8, 2-10, 3-46, 3-66, 3-73, 6-34

Land Use Compatibility

5.1-3, 5.1-66, 5.2-2-4, 5.8-5, 5.8-7, 5.8-18-25, 5.8-37, 5.9-3, 5.9-31, 5.21-19, 6-30-31, 7-2, ES-23

Lee Street

1-46, 5.3-12, 5.3-15, 5.3-19 -20, 5.3-28-29, 5.3-35, 5.3-37-38, 5.3-45-46, 5.3-53-54, 5.20-11, 5.20-15, 5.20-19, 5.20-42, 5.20-44, 5.21-54, 5.21-61-62, 6-30-31, 7-49

Level of Service (LOS)

5.3-3-5, 5.3-9, 5.3-11, 5.3-18-19, 5.3-24, 5.3-26, 5.3-28, 5.3-33-35, 5.3-37, 5.3-42-45, 5.3-50-53, 5.3-58-60, 5.3-63, 5.20-42-44, 5.21-55-60, 5.21-69-70, 7-5-6, 7-39, 7-49-50, 7-65-66

Light Emissions

5.0-1, 5.18-1, 5.18-3, 5.18-5, 5.18-7, 5.18-8, 5.18-9-11, 6-23, 6-38, 7-66, ES-43

Long-Term Parking

1-9, 1-47, 5.3-15, 5.3-17, 6-27, 6-29

Mannheim Flyover

5.3-12, 5.3-20, 5.3-22, 5.3-28, 5.3-29, 5.3-31, 5.3-37, 5.3-38, 5.3-40, 5.3-45, 5.3-46, 5.3-48, 5.3-53, 5.3-54, 5.3-56

Mannheim Road

1-46-48, 5.3-12-13, 5.3-15, 5.3-17, 5.3-19-22, 5.3-28-32, 5.3-37-41, 5.3-43, 5.3-45-49, 5.3-53-57, 5.3-61, 5.3-63, 5.6-32-33, 5.6-37-38, 5.6-41-42, 5.6-47-48, 5.6-53-54, 5.6-69, 5.7-4, 5.7-6, 5.10-6, 5.18-5, 5.20-37, 5.20-40, 5.20-42, 5.20-44, 5.21-52, 5.21-54, 5.21-61-62, 6-5, 6-8, 6-15, 6-28-32, 7-7, 7-49-50, 7-53, ES-34

Master Plan

1-1, 1-11-12, 1-35, 1-38, 1-52-55, 1-57, 2-22, 2-30-33, 3-14-15, 3-19, 5.4-3, 5.4-23, 5.17-3, 5.17-8, 5.17-11, 5.20-1, 6-7, ES-12, ES-50-53

Memorandum of Agreement (MOA)

5.3-60, 5.8-32-35, 5.9-33-34, 5.12-1, 7-6, 7-14-16, 7-19-21, 7-51-54, 7-56, 7-60-61, ES-41, ES-48

Metra STAR Line

5.3-61, 6-15, 7-8, ES-29

Metropolitan Planning Organization (MPO)

4-14, 5.2-4, 5.3-2, 5.5-2, 6-15

Midway International Airport (Midway or MDW)

1-10, 1-13, 1-17, 1-19-22, 1-25, 1-35-36, 1-39, 2-5-6, 2-9, 2-22, 2-25, 3-5, 3-17, 3-19-20, 3-23, 5.1-65, 5.6-9, 6-5, 6-7-9, ES-13

Milwaukee General Mitchell International Airport (Milwaukee or MKE)

1-1, 1-12, 1-17, 1-20-22, 1-25, 1-35, 1-39, 2-9, 3-5, 3-19-20, 3-23, 5.1-65, 6-7, ES-14

Mitigation Ratio

5.12-13, 5.12-14, 7-23, ES-42

National Airspace Redesign (NAR)

1-18, 2-14, 2-17, 3-6, 6-5, 6-34

National Airspace System (NAS)	5.21-68, 5.21-69, 7-3, 7-4, 7-5, 7-38, 7-41, 7-42, 7-43, 7-44, 7-45, 7-46, ES-23, ES-24, ES-54
1-4, 1-5, 1-17, 1-18, 1-57, 2-1, 2-2, 2-4, 2-5, 2-6, 2-10, 2-11, 2-14, 2-15, 2-16, 2-17, 2-18, 2-19, 2-21, 2-22, 2-23, 2-28, 2-36, 3-1, 3-12, 3-13, 3-16, 3-28, 3-30, 3-31, 3-64, 3-86, 5.0-6, 5.22-5, 5.22-6, 6-5, ES-9, ES-10, ES-11, ES-13, ES-16, ES-17, ES-53, ES-54, ES-55,	Noise Metrics
	4-2, 5.1-1, 5.1-66, 5.21-19
	Noise Monitoring
	5.1-66, 7-2
National Ambient Air Quality Standards (NAAQS)	Non-Airfield Alternative
5.4-5, 5.6-2, 5.6-3, 5.6-4, 5.6-5, 5.6-7, 5.6-8, 5.6-14, 5.6-17, 5.6-18, 5.6-19, 5.6-26, 5.6-28, 5.6-32, 5.6-33, 5.6-36, 5.6-37, 5.6-38, 5.6-40, 5.6-41, 5.6-42, 5.6-45, 5.6-46, 5.6-47, 5.6-48, 5.6-51, 5.6-52, 5.6-53, 5.6-54, 5.6-56, 5.6-63, 5.6-67, 5.6-68, 5.8-25, 5.8-26, 5.21-51, 5.21-52, ES-30, ES-31, ES-32, ES-33, ES-34, ES-35, ES-36, ES-47	3-2, 3-4, 3-6, 3-16-17, 3-29-30, 3-33-35, 3-43, 3-63-64, ES-14-16
	Non-attainment Area
	5.6-2-4, 5.6-7-12, 5.6-14, 5.6-16-18, 5.6-23, 5.21-51, ES-30, ES-34
National Environmental Policy Act (NEPA)	Northeastern Illinois Planning Commission (NIPC)
1-1, 1-2, 1-3, 1-57, 2-21, 3-1, 3-2, 3-3, 3-30, 3-31, 3-36, 3-37, 3-38, 3-43, 3-45, 3-61, 3-85, 4-25, 5.0-6, 5.1-67, 5.2-28, 5.6-1, 5.6-2, 5.6-19, 5.6-23, 5.8-3, 5.8-5, 5.8-26, 5.10-1, 5.11-2, 5.13-3, 5.20-2, 5.21-1, 5.21-2, 5.21-3, 5.21-4, 5.21-65, 5.21-68, 5.21-70, 5.21-71, 5.22-7, 5.23-1, 6-1, 6-2, 7-3, 7-5, 7-35, 7-38, 7-39, ES-1, ES-3, ES-7, ES-12, ES-16, ES-17, ES-18, ES-20, ES-23, ES-38, ES-44, ES-50, ES-53, ES-54	1-2, 1-36, 4-14-16, 5.3-2, 5.4-24, 5.5-2, 6-4, 6-10, 7-1, ES-4
	Northwest Chicagoland Regional Airport at Rockford (Rockford or RFD)
	1-12, 1-14, 1-20-22, 1-25, 1-35, 1-39, 2-5, 2-9, 2-20-21, 3-5, 3-19-20, 3-23, 5.1-65, 6-7-8, ES-14
	Northwest Tollway
	5.3-13, 5.3-15, 5.18-5, 6-9-10, 6-31
	O'Hare Modernization Act (OMA)
	1-15, 2-34-35, 5.4-13, 5.4-23, 5.4-29, 5.21-67, 7-36, 7-55, 7-57, ES-7-8
	O'Hare Modernization Program (OMP)
	1-1, 1-3, 1-14-16, 1-30, 1-39, 1-50-52, 1-54-57, 2-20, 3-6, 3-39, 3-42, 3-62-63, 3-66, 3-86-87, 5.0-8, 5.2-2, 5.3-14, 5.3-19, 5.4-13-14, 5.5-3, 5.5-9-12, 5.6-58, 5.6-61-62, 5.9-7, 5.20-1, 5.20-3, 5.20-10, 5.20-14, 5.20-18, 5.20-47, 5.20-50, 5.20-53, 5.20-55, 5.21-13, 5.21-15-16, 5.21-66-67, 5.22-1, 5.22-3-6, 6-14, 7-12, 7-26-27, 7-30-31, 7-36-37, 7-59, ES-1, ES-4-5, ES-8, ES-49-53, ES-55-56
	O'Hare Development Alternative
	3-31, ES-17
	O'Hare Noise Compatibility Commission (ONCC)
	5.1-66-68, 5.2-27, 5.4-5, 5.21-69, 7-2-47-38, 7-41-46
National Plan of Integrated Airport Systems (NPIAS)	
1-25, 2-12, 2-13, 2-14, 2-19, 2-30, 5.1-66, 5.1-67, 5.2-28, 7-2, 7-3, 7-5	
Noise Abatement Measures	
5.1-66, 5.1-67, 5.2-28, 7-2, 7-3, 7-5	
Noise Contour	
3-86, 5.1-2, 5.1-8, 5.1-15, 5.1-16, 5.1-18, 5.1-24, 5.1-25, 5.1-37, 5.1-38, 5.1-40, 5.1-42, 5.1-54, 5.1-55, 5.1-59, 5.1-65, 5.1-67, 5.1-68, 5.2-2, 5.2-4, 5.2-8, 5.2-11, 5.2-16, 5.2-17, 5.2-20, 5.2-23, 5.2-25, 5.2-26, 5.2-27, 5.2-28, 5.4-5, 5.8-5, 5.9-4, 5.21-11, 5.21-12, 5.21-19, 5.21-20, 5.21-21, 5.21-22, 5.21-23, 5.21-24, 5.21-25, 5.21-26, 5.21-27, 5.21-28, 5.21-29, 5.21-30, 5.21-31, 5.21-32, 5.21-33, 5.21-34, 5.21-35, 5.21-36, 5.21-37, 5.21-38, 5.21-39, 5.21-40, 5.21-41, 5.21-42, 5.21-44, 5.21-45, 5.21-46, 5.21-47, 5.21-48, 5.21-49, 5.21-50,	

Open Skies	Proposed Federal Action
1-11	1-1-2, 1-23, 2-22, 5.6-3, 6-6, ES-1, ES-3, ES-34
Operational Evolution Plan (OEP)	Railroad Realignment
2-1, 2-5, 2-17-18, ES-7	1-48
OPSNET	Record of Decision (ROD)
1-4, 2-2-4, 2-19, 2-25, ES-10	1-1, 1-12-13, 1-16, 1-22, 3-4, 3-46, 5.0-6, 5.0-8, 5.1-67-68, 5.3-7, 5.4-13, 5.12-1, 5.21-67, 5.21-69, 5.22-1, 5.22-4, 5.22-6, 5.22-9-10, 6-2, 6-5, 6-7, 6-13, 7-1, 7-3, 7-9, 7-14-16, 7-19-21, 7-36, 7-38, 7-41-46, 7-54, 7-56, 7-60-61, ES-1, ES-7, ES-39, ES-44, ES-49, ES-55
Order Limiting Scheduled Operations	Regional Airports
2-4, 2-11, 2-18-19	1-21, 1-24-25, 2-20-21, 3-5, 3-13, 3-19-20, 3-30, 3-32, 3-34-35, 3-63, 5.1-1, ES-6, ES-14-16
Origin and Destination (O-D)	Regional Jet (RJ)
1-4, 1-24-26, 2-6, 2-22, 2-36, 3-13, 3-18, 3-27, 3-34, ES-9	1-35, 2-15, 2-27, 2-29, 2-34, 3-14, 5.17-6
Original Schedule	Regional Transportation Plan (RTP)
5.0-7, 5.1-9, 5.1-11, 5.1-18, 5.1-27, 5.1-44, 5.1-61, 5.1-63, 5.3-23, 5.3-26, 5.3-34, 5.6-20, 5.6-33, 5.20-4-8, 5.20-12, 5.20-16, 5.20-25-26, 5.20-28, 5.20-32-34, 5.20-36-38, 5.20-42-44, 5.20-48-50, 5.20-54, 7-27, ES-45	1-36, 2-35, 5.3-2-3, 5.3-10, 5.3-61, 6-8-9, 6-13, 6-15, 6-36, 7-7, ES-29
Parking Structure	Relocation
1-9, 1-48, 5.6-58, 5.7-11, 5.9-15, 5.20-10-11, 5.20-14-15, 5.20-18-19, 6-29-30	1-2, 1-11, 1-16, 1-19, 1-45-49, 1-56, 2-34, 3-37, 3-41, 3-56, 3-58-60, 3-73, 3-85-86, 5.2-1, 5.3-60, 5.4-1-4, 5.4-12, 5.4-23-24, 5.4-26-27, 5.4-29, 5.4-34-36, 5.5-2, 5.8-29-30, 5.8-32-34, 5.9-28-29, 5.10-5, 5.10-12, 5.13-2, 5.13-7, 5.18-7-8, 5.18-10, 5.20-4, 5.20-9-11, 5.20-13-15, 5.20-17-19, 5.20-45, 5.20-55, 5.21-5, 5.21-12, 5.21-17-19, 5.21-65-66, 5.21-68, 5.21-70-71, 5.22-1, 5.22-4, 5.22-6-8, 5.23-2, 6-12-14, 6-18, 6-27-28, 6-31, 6-33, 7-6, 7-8-9, 7-31, 7-35-37, 7-39, 7-50, 7-53-56, 7-64-66, ES-3, ES-5, ES-7, ES-36, ES-38, ES-40, ES-47-49, ES-53-54
Particulate Matter	Residential Sound Insulation Program (RSIP)
5.4-5, 5.6-1-8, 5.6-14, 5.6-17, 5.6-20, 5.6-22-24, 5.6-26, 5.6-28, 5.6-31-32, 5.6-34-36, 5.6-38-40, 5.6-41, 5.6-43-46, 5.6-49-52, 5.6-54, 5.6-59-60, 5.6-63, 5.6-65-68, 5.8-5, 5.8-26, 5.21-50-51, 6-16, 6-25, 6-36, ES-6, ES-30-33, ES-35, ES-45	5.1-64, 5.2-27-28, 7-4-5, 7-47-48
Passenger Facility Charge (PFC)	Rest Haven Cemetery
1-2, 1-52, 1-55, ES-3, ES-50, ES-52	1-49, 3-49, 3-51, 3-53, 5.4-26, 5.4-35-36, 5.8-6-7, 5.8-9, 5.8-17-18, 5.8-32-33, 5.9-8, 5.9-13, 5.9-22-24, 5.9-29, 5.9-31-33, 5.22-2-4, 5.22-7, 5.22-10, 6-19, 7-9-10, 7-13, 7-15, 7-19-20, 7-54, 7-56, 7-60, 7-62, ES-40, ES-49
Peak Month Average Day (PMAD)	
2-16, 3-14, 5.3-9, 6-16, ES-22	
Preferential Runway Use	
5.1-67, 7-2	
Preferred Alternative	
3-2, 3-62, 3-65, 3-73-74, 3-85-87, 5.0-2, 5.8-28, 5.22-1-2, 5.22-4-7, 5.22-9-10, 5.23-2, 6-9-10, 7-1, 7-12, 7-40, ES-1, ES-6, ES-20, ES-48, ES-54-55	
Project Phasing	
5.0-3	

Runway Capacity

2-3, 2-10-11, 2-22, 3-17, 3-28, 3-86, 5.22-9, ES-13, ES-15, ES-55

School Sound Insulation Program (SSIP)

4-8, 5.2-27-28, 6-31, 7-4-5, 7-47-48

Scoping

1-1, 1-23, 2-36, 6-6, 5.6-1, 5.6-22, 5.6-24, 5.6-26, 5.21-5, 5.21-7, 5.23-1, 6-6, ES-1, ES-4, ES-30, ES-35

Screening Criteria

3-1, 3-12, 3-16, 3-29-33, 3-43, 3-62, 5.8-26, ES-14-17, ES-20

Screening Process

3-1, 3-33, 3-36, ES-14, ES-18

Secondary Screening

3-1, 3-13, 3-16, 3-31-33, 3-35-37, 3-39, 3-41-44, 3-62, 5.8-26-27, 5.22-2, 5.22-4, 5.22-6-7

Section 4(f) Lands

5.2-1, 5.8-1-5, 5.8-17, 5.9-2, 5.9-13, 6-18, 7-12, 7-17, 7-60-61, ES-40

Section 401 (Water Quality Certification)

3-36, 5.12-1, 5.12-3-4, 5.12-11, 7-21, ES-4, ES-18, ES-41, ES-49

Section 404

4-22, 5.12-1-3, 5.12-12-13, 5.12-15-16, 5.20-2, 7-21-23, 7-25, 7-62, ES-4, ES-41-42, ES-49

Section 6(f) Lands

5.2-1, 5.8-1-2, 5.8-18-25, 5.9-2, 5.9-13, 6-18, 7-12, 7-17

Sensitivity Analysis

1-35, 5.3-7

Simulation Modeling

1-4, 2-14-15, 3-16, 3-57-58, 3-60-61, 3-68, 5.0-2, ES-21-22

Snow Storage

5.7-11-12, 5.7-17, 5.7-21

Socioeconomic Impact

4-2, 5.2-1, 5.4-2, 5.4-3, 5.5-1, 5.20-1

Solid Waste

5.0-1, 5.7-13, 5.19-1-5, 5.19-14-17, 5.19-20, 5.20-2, 5.20-55, 6-24-25, 7-31, 7-63, ES-43, ES-45

Sound Insulation

5.1-64, 5.2-27-28, 5.4-5, 5.4-23, 5.8-5, 5.8-17, 5.8-28, 5.8-38-40, 5.21-63-64, 6-31, 7-4-5, 7-12, 7-17-18, 7-42-48, 7-62, ES-23, ES-41, ES-48-49

South Suburban Airport (SSA or South Suburban)

1-12, 1-13-14, 1-20-21, 1-23, 1-35-38, 2-36, 3-5, 3-19-20, 6-6, 6-21-22, 6-33, ES-5

Southeast Services Area

1-11

Spine Road

1-46, 5.3-13, 5.3-15, 6-31

St. Johannes Cemetery

1-49, 3-49, 3-51, 3-53, 3-83, 5.4-26, 5.4-35, 5.8-9, 5.8-17, 5.8-18, 5.8-31, 5.8-32, 5.8-37, 5.9-8, 5.9-9, 5.9-12, 5.9-22, 5.9-23, 5.9-24, 5.9-29, 5.9-31-32, 5.20-9, 5.20-13, 5.20-17, 5.22-2-3, 5.22-8, 5.22-10, 6-19, 7-9, 7-13-14, 7-19, 7-54, 7-56, 7-60, 7-62, ES-40

Stage 2 Aircraft

6-2

Star Alliance

1-11

State Historic Preservation Office (SHPO)

5.8-34, 5.8-38-40, 5.9-1-2, 5.9-4, 5.9-7, 5.9-9, 7-17, 7-18, 7-62

State Implementation Plan (SIP)

5.3-2, 5.6-2-4, 5.6-8, 5.6-19, 5.6-23, 5.6-54, 5.6-56

State Legislation

1-14, 2-16, 5.3-17, 5.4-2

Storm Water Pollution Prevention Plan (SWPPP)

5.7-15, 5.7-17, 5.7-20, 5.7-21

Telecommunications

3-4, 3-17-19, 3-32

Terminal Area Forecast (TAF)

1-32, 1-33, 1-35, 1-37-39, ES-12

Terminal Radar Approach Control Facility
(TRACON)

2-6, 2-9, 2-27, ES-21

Third Party Contractor (TPC)

1-3-4, 1-25, 1-27-28, 1-31, 2-5, 2-11-13, 2-22-23, 2-25-26, 2-28, 2-36, 3-7, 3-47, 3-49, 3-51, 3-53, 3-56, 3-62, 3-74, 5.1-7, 5.1-10, 5.1-13-14, 5.1-19, 5.1-22-23, 5.1-28, 5.1-33-36, 5.1-40, 5.1-45, 5.1-50-53, 5.1-62, 5.2-6, 5.2-9, 5.2-13, 5.2-21, 5.3-1, 5.3-5, 5.3-8, 5.3-12, 5.3-16, 5.3-23, 5.3-28, 5.3-32-33, 5.3-37, 5.3-41-42, 5.3-45, 5.3-49-50, 5.3-53, 5.3-57-58, 5.4-27, 5.4-30, 5.4-32, 5.4-37, 5.5-3-4, 5.6-9-13, 5.6-15, 5.6-22, 5.6-24-25, 5.6-27, 5.6-30-33, 5.6-36-38, 5.6-40-41, 5.6-43, 5.6-46-47, 5.6-49, 5.6-52-53, 5.6-59, 5.6-63, 5.6-66, 5.6-68-69, 5.8-25, 5.8-27, 5.8-29, 5.8-30, 5.9-4, 5.9-13, 5.9-31-32, 5.10-11, 5.10-13, 5.10-16, 5.12-9, 5.13-8, 5.17-3-6, 5.17-8, 5.17-11, 5.19-15, 5.20-7-8, 5.20-16, 5.20-20, 5.20-23-24, 5.20-37, 5.20-43, 5.21-7, 5.21-9, 5.21-10, 5.21-21-23, 5.21-26-27, 5.21-30-36, 5.21-40, 5.21-44-49, 5.21-54, 5.21-55-60, 6-11, 6-16, 6-23, 6-35, 6-39, ES-3, ES-20-21, ES-32-34, ES-36, ES-47

Thorndale Avenue

1-46, 3-6, 5.3-7, 5.3-12, 5.3-15, 5.3-19, 5.3-21-22, 5.3-28, 5.3-30-31, 5.3-37, 5.3-39-40, 5.3-44-45, 5.3-47-48, 5.3-53, 5.3-55-56, 5.3-61-63, 5.20-37-38, 5.20-44, 5.21-54, 5.21-61-62-65, 7-7-8, 7-49-50, 7-52

Threatened and Endangered Species

5.0-1, 5.10-1, 5.10-3, 5.11-1-5, 6-20-21, 6-37, 7-66, ES-41

Total Airspace and Airport Modeller (TAAM)

2-2-3, 2-14, 2-16, 2-23, 2-24, 2-27, 3-48, 3-50, 3-52, 3-55, ES-21-22

Touhy Avenue

3-49, 3-51, 3-53, 4-24, 5.3-7, 5.3-12, 5.3-13, 5.3-15, 5.3-19-21, 5.3-28-30, 5.3-35, 5.3-37-39, 5.3-43, 5.3-45-47, 5.3-53-55, 5.9-15, 5.9-21, 5.13-1-2, 5.13-4, 5.13-7, 5.18-5, 5.19-4, 5.20-26, 5.20-35, 5.20-37, 5.20-42, 5.20-44, 5.21-54, 5.21-61-62, 7-49, 7-52, 7-53

Transportation Hub

1-19, 1-25, 2-28, 2-36, ES-5, ES-11

Transportation Improvement Program (TIP)

5.3-2-3, 5.3-61, 7-7, ES-29

U.S. Fish and Wildlife Service (FWS)

1-2, 5.6-55, 5.10-2-3, 5.10-5, 5.10-17, 5.11-1-3, 5.11-5, 5.12-4, 5.12-5, ES-4, ES-41

Uniform Relocation Assistance and Real Property Acquisition Policies Act (Uniform Act)

5.4-1-2, 5.4-24, 5.4-34, 5.4-35, 5.21-1, 5.21-17-18, 5.21-65-66, 5.21-68, 5.21-71, 6-13, 7-8, 7-9, 7-35-37, 7-53-56, 7-64-65, ES-36, ES-51-52

Union Pacific Railroad

1-45, 1-48-49, 1-56, 3-49, 3-51, 3-53, 5.3-17, 5.18-4-8, 5.18-10, 5.20-9, 5.20-13, 5.20-17, 5.20-45, ES-53

Union Pacific Railroad Relocation

1-56, 5.20-9, 5.20-13, 5.20-17, ES-53

United (United Airlines or UAL)

1-4, 1-10-11, 1-16, 1-25, 1-31, 1-35, 2-19-20, 2-26, 2-28, 3-27, 3-64, 5.8-14, 5.8-18, 5.9-12-13, 5.9-15, 5.9-18, 5.9-20-21, 5.9-29-32, 5.19-8, 5.19-11, 5.19-18, 5.20-9-10, 5.20-13-14, 5.20-17-18, 5.20-22, 5.20-23, 6-5, 6-26-28, ES-9

United States Army Corps of Engineers
(USACE)

1-2, 4-18, 4-22, 5.12-1-2, 5.12-5-6, 5.12-10, 5.12-12, 5.12-13-16, 5.20-2, 7-1, 7-21-25, 7-62, ES-4, ES-41-42, ES-49

United States Environmental Protection Agency
(USEPA)

5.1-10, 5.3-2, 5.4-5, 5.6-1-5, 5.6-7-8, 5.6-17, 5.6-19, 5.6-22, 5.6-26, 5.6-54-56, 5.6-58, 5.7-1, 5.7-3, 5.12-2-3, 5.12-5, 5.12-10-14, 5.19-2-3, 5.19-9, 5.20-2, 5.20-40, 5.21-3, 5.21-50-51, 6-3, 7-1, 7-11, 7-22, 7-23, ES-4, ES-23, ES-30-31, ES-34-35, ES-38, ES-42

Visual Flight Rule (VFR)

1-31, 2-10, 2-15-16, 2-23-24, 2-26-27, 2-31, 3-5, 3-13, 3-16, 3-40, 3-70-72, 3-74-76, 3-78, 3-80, 3-82, 3-84, 5.22-8

Water Quality

3-36, 4-18, 4-22, 5.0-1, 5.7-1-6, 5.7-9-13, 5.7-15-18, 5.7-20-22, 5.12-1-6, 5.12-11, 5.13-4-5, 5.15-1-2, 5.15-5-6, 5.20-55-56, 6-17-19, 6-36, 6-39, 7-21, 7-31-32, 7-64, 7-66, ES-4, ES-18, ES-40-41, ES-49, ES-54

5.20-9-10, 5.20-13-14, 5.20-17-18, 5.20-42, 5.21-54, 5.21-61-62, 5.21-70

Waters of the U.S. (WUS)

3-57, 4-18, 4-20-22, 5.10-6, 5.10-9-10, 5.12-2-3, 5.12-5-8, 5.12-10-16, 5.20-2, 5.21-65, 6-21, 6-37, 7-22-25, 7-62, ES-42

Zemke Road

1-46, 5.3-12-13, 5.3-15, 5.3-17, 5.3-19-20, 5.3-28-29, 5.3-37-38, 5.3-45-46, 5.3-53-54, 5.3-63, 5.6-53-54, 5.6-69, 5.20-11, 5.20-15, 5.20-19, 5.21-54, 5.21-61-62

West O'Hare Bypass

6-9, 6-21-22

West Terminal

1-46-48, 1-52, 1-54, 3-8, 3-50, 3-52, 3-54, 5.6-44, 5.6-50, 5.18-4, 5.8-8-9, 5.20-5-10, 5.20-13-14, 5.20-17-18, 5.20-26-27, 5.20-29, 6-9, ES-50-51

Western Access

1-15, 1-40, 2-35, 3-11-12, 5.7-18, 6-9, ES-8

Wetlands

3-36, 3-57, 3-58-60, 3-85, 4-17-18, 4-20-22, 5.0-1, 5.4-3, 5.7-4, 5.10-2, 5.10-4-6, 5.10-9-10, 5.12-1-16, 5.13-7, 5.14-1, 5.20-2, 5.21-65, 6-10, 6-21-22, 6-28, 6-30, 6-37, 7-1, 7-21-25, 7-62, ES-6, ES-18, ES-38, ES-40-42, ES-49, ES-54

Wild and Scenic River

5.0-1, 5.15-1-2, 5-15-5-6 6-22, 6-38, 7-66, ES-43

Wildlife Attractant

5.10-1, 5.10-9-10, 5.12-5, 5.12-12-14, 7-22, 7-24

Wildlife Hazard Management Plan (WHMP)

5.10-1, 5.10-5, 5.10-10-16

World Gateway Program (WGP)

1-15-17, 1-35-37, 1-40, 1-45-48, 1-52-55, 2-31, 2-35, 3-4, 3-8-9, 5.3-7, 5.3-10, 5.9-7-8, 5.9-15, 5.9-17, 5.9-21, 5.11-2, 5.20-1, 5.20-3, 5.20-5-8, 5.20-10-11, 5.20-14-16, 5.20-18-20, 5.20-28-29, 6-2, ES-50-52

York Road

1-40, 1-46, 1-48, 3-6, 5.3-7, 5.3-12, 5.3-15, 5.3-19, 5.3-21, 5.3-23, 5.3-27-28, 5.3-30, 5.3-37, 5.3-39, 5.3-43, 5.3-45, 5.3-47, 5.3-52-53, 5.3-55, 5.3-60-63, 5.4-23, 5.4-34, 5.8-26, 5.10-6, 5.18-6-10,

This page was intentionally left blank.