Appendix P **Airspace Hazards**

Project Condor Obstruction Evaluation & Airspace Analysis

Project Condor

Wilson Meany

Inglewood, California

Obstruction Evaluation & Airspace Analysis

September 13, 2017



Capitol Airspace Group capitolairspace.com (703) 256 - 2485



Summary

Capitol Airspace conducted an obstruction evaluation and airspace analysis for Project Condor in Inglewood, California. The purpose for this analysis was to identify obstacle clearance surfaces established by the Federal Aviation Administration (FAA) that could limit 150 foot above ground level (AGL) buildings and 300 foot AGL temporary construction equipment at the proposed location (*Figure 1*).

14 CFR Part 77.9 requires that all structures exceeding 200 feet AGL be submitted to the FAA so that an aeronautical study can be conducted. The FAA's objective in conducting aeronautical studies is to ensure that proposed structures do not have an effect on the safety of air navigation and the efficient utilization of navigable airspace by aircraft. The end result of an aeronautical study is the issuance of a determination of 'hazard' or 'no hazard' that can be used by the proponent to obtain necessary local construction permits. It should be noted that the FAA has no control over land use in the United States and cannot enforce the findings of its studies.

Height constraints overlying Project Condor range from 290 to 424 feet above mean sea level (AMSL) and are associated with Los Angeles International Airport (LAX) instrument departure and approach procedures. Proposed structures that exceed these surfaces would require an increase to instrument departure procedure climb gradients and/or instrument approach procedure minimum descent altitudes.

At 150 feet AGL, USGS elevation data indicates that these surfaces should not limit the proposed buildings within the defined study area. However, USGS elevation data indicates that temporary construction equipment, as high as 300 feet AGL, would exceed these surfaces. Unless mitigation options are identified and approved by the FAA, impact on these altitudes could be used as the basis for determinations of hazard.

Lastly, the FAA is in the process of designing and modifying multiple instrument procedures for Los Angeles International Airport. At the time of this report, associated design documentation was not publicly available. Although unlikely, it is possible that the associated obstacle clearance surfaces are lower than those described in this report.

Capitol Airspace applies FAA defined rules and regulations applicable to obstacle evaluation, instrument procedures assessment and visual flight rules (VFR) operations to the best of its ability and with the intent to provide the most accurate representation of limiting airspace surfaces as possible. Capitol Airspace maintains datasets obtained from the FAA which are updated on a 56 day cycle. The results of this analysis/map are based on the most recent data available as of the date of this report. Limiting airspace surfaces depicted in this report are subject to change due to FAA rule changes and regular procedure amendments. Therefore, it is of the utmost importance to obtain FAA determinations of no hazard prior to making substantial financial investments in this project.



Methodology

Capitol Airspace studied the proposed project based upon location and elevation information provided by Wilson Meany. Using this information, Capitol Airspace generated graphical overlays to determine proximity to airports (*Figure 1*), published instrument procedures, FAA minimum vectoring altitude and minimum instrument flight rules (IFR) altitude charts, enroute airways, and military airspace and training routes.

Capitol Airspace evaluated all 14 CFR Part 77 imaginary surfaces, published instrument approach and departure procedures, visual flight rules operations, FAA minimum vectoring altitudes, minimum IFR altitudes, and enroute operations. All formulas, headings, altitudes, bearings and coordinates used during this study were derived from the following documents and data sources:

- 14 CFR Part 77 Safe, Efficient Use, and Preservation of the Navigable Airspace
- FAA Order 7400.2L Procedures for Handling Airspace Matters
- FAA Order 8260.3C United States Standard for Terminal Instrument Approach Procedures
- FAA Order 8260.58A United States Standard for Performance Based Navigational (PBN)
 Instrument Procedure Design
- United States Government Flight Information Publication, US Terminal Procedures
- National Airspace System Resource Aeronautical Data

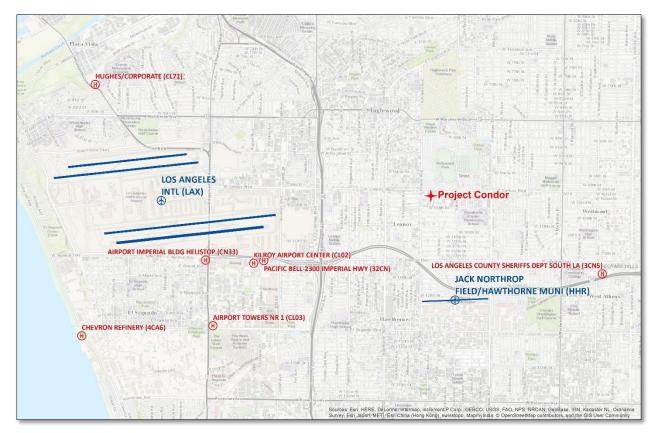


Figure 1: Public-use (blue) and private-use (red) airports and heliports in proximity to Project Condor



Study Findings

14 CFR Part 77.9 Notification Criteria

The FAA requires notification of proposed structures that exceed 200 feet AGL, or that exceed imaginary surfaces associated with runways at public-use or military-use airports, or any airport with an FAA-approved instrument approach procedure. The size and slope of the imaginary notification surfaces for an airport are directly related to the length of the longest runway at that airport. Proposed structures that exceed notification criteria must undergo aeronautical study to ensure that they would not have an adverse effect on the safety and efficiency of air navigation.

The Jack Northrop Field/Hawthorne Municipal Airport (Hawthorne Airport) §77.9(b)(1) notification surface is the lowest overlying Project Condor (*Figure 2*). The height of the notification surface ranges from 137 to 148 feet AMSL where it overlies the study area. At both 150 and 300 feet AGL, proposed structures will exceed this surface and would require notification to the FAA.

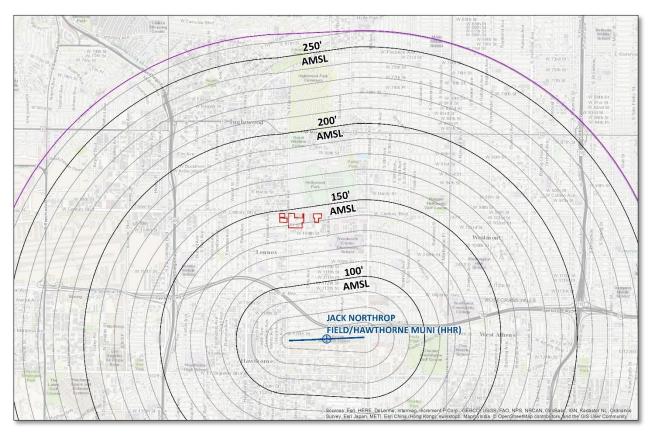


Figure 2: Jack Northrop Field/Hawthorne Municipal 14 CFR Part 77.9 FAA notification surfaces



14 CFR Part 77 Imaginary Surfaces

The FAA uses level and sloping imaginary surfaces to determine if a proposed structure is an obstruction to air navigation. Structures that are identified as obstructions are then subject to a full aeronautical study and increased scrutiny. However, exceeding a Part 77 imaginary surface does not automatically result in the issuance of a determination of hazard. Proposed structures must have airspace impacts that constitute a substantial adverse effect in order to warrant the issuance of determinations of hazard.

14 CFR Part 77 imaginary surfaces (e.g., Figure 3) overlying Project Condor:

Los Angeles International Airport (LAX)

77.17(a)(2): 338 to 384 feet AMSL 77.19: 289 to 370 feet AMSL

Compton/Woodley Airport (CPM) 77.17(a)(2): 565 to 597 feet AMSL

Jack Northrop Field/Hawthorne Municipal Airport (HHR)

77.17(a)(2): 285 to 309 feet AMSL 77.19: 216 to 370 feet AMSL

At 150 feet AGL, the proposed building will exceed Hawthorne Municipal Airport 14 CFR Part 77.19 imaginary surfaces and will be identified as an obstruction (*Figure 3*). At 300 feet AGL, the temporary construction equipment will also exceed Los Angeles International Airport and Hawthorne Municipal Airport Part 77.17(a)(2) and 77.19 imaginary surfaces. Proposed structures that exceed these surfaces will be identified as obstructions and may require marking and lighting in accordance with FAA Advisory Circular 70/7460-1L.

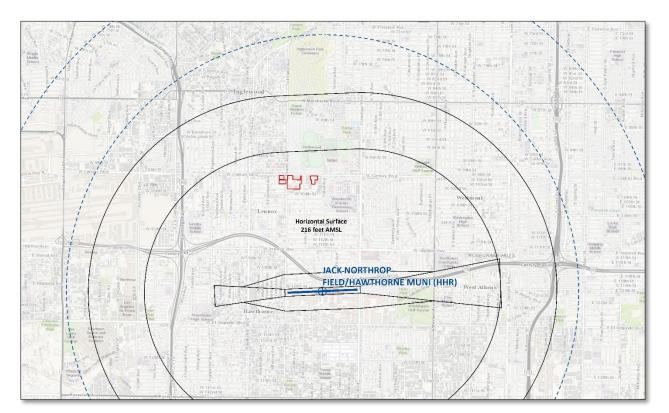


Figure 3: Jack Northrop Field/Hawthorne Municipal Airport 14 CFR Part 77.17(a)(2) (dashed blue) and 77.19 (black) imaginary surfaces



Visual Flight Rules (VFR) Traffic Pattern Airspace

VFR traffic pattern airspace is used by pilots operating during visual meteorological conditions. The airspace dimensions are based upon the category of aircraft which, in turn, is based upon the approach speed of the aircraft. 14 CFR Part 77.17(a)(2) and 77.19 (as applied to a *visual* runway) imaginary surfaces establish the obstacle clearance surface heights within VFR traffic pattern airspace.

Los Angeles International Airport (LAX)

Considering the air carrier nature of operations at Los Angeles International Airport, it is unlikely that the FAA will protect for VFR traffic pattern airspace. Therefore, Los Angeles Airport VFR traffic pattern airspace should not limit 150 or 300 foot AGL structures within the defined study area.

Jack Northrop Field/Hawthorne Municipal Airport (HHR)

Hawthorne Airport VFR traffic pattern operations are restricted to the south of Runway 07/25 (*Figure 4*). Therefore, Hawthorne Municipal Airport VFR traffic pattern airspace should not limit 150 or 300 foot AGL structures within the defined study area.

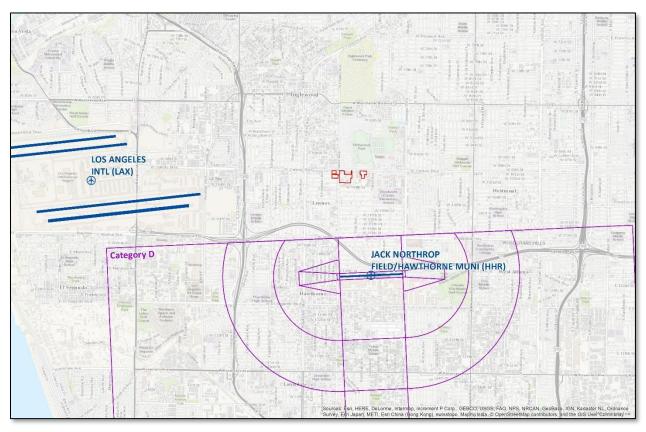


Figure 4: Jack Northrop Field/Hawthorne Municipal Airport VFR traffic pattern airspace in proximity to Project Condor (red)



Visual Glide Slope Indicators

Visual Glide Slope Indicators (VGSI) provide a visual aid to aircraft approaching to land. Different light combinations indicate an approaching aircraft's position relative to the published visual glide path angle. Proposed obstacles that exceed VGSI obstacle clearance surfaces would require an increase to the published visual glidepath angle and/or threshold crossing height. If the FAA determines this impact to constitute a substantial adverse effect it could be used as the basis for determinations of hazard.

Proposed structures that exceed the 10° obstacle clearance surface (blue, *Figure 5*) would require an increase to the visual glidepath angle and/or threshold crossing height. However, in most cases the only resolution is to remove the VGSI from service, which would likely result in the issuance of determinations of hazard. Proposed structures outside of the 10° splay that only exceed the 15° splay (purple, *Figure 5*) may still be approved. However, a Flight Inspection is required to identify the lateral limits of the PAPI visible light beam to determine if "baffling" is necessary. The costs associated with the Flight Inspection and potential subsequent baffling would be the responsibility of Project Condor.

VGSI obstacle clearance surfaces (e.g., *Figure 5*) are in excess of other lower surfaces and should not limit 150 or 300 foot AGL structures within the defined study area.

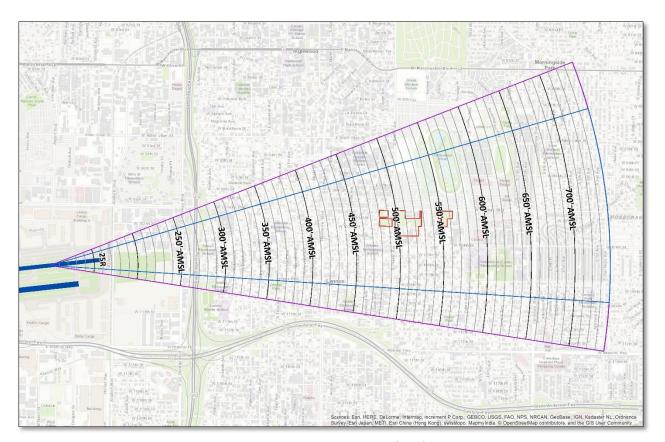


Figure 5: Los Angeles International Airport (LAX) Runway 25R PAPI



Instrument Departure Procedures and Diverse Vector Areas

In order to ensure that aircraft departing during marginal weather conditions do not fly into terrain or obstacles, the FAA publishes instrument departure procedures that provide obstacle clearance to pilots as they transition between the terminal and enroute environments. These procedures contain specific routing and minimum climb gradients to ensure clearance from terrain and obstacles. Similarly, diverse vector areas (DVA) allow air traffic controllers to vector departing aircraft below the minimum vectoring altitude (MVA) while also ensuring that the aircraft does not fly into terrain or obstacles.

Proposed structures that exceed instrument departure procedure obstacle clearance surfaces would require an increase to instrument departure procedure and/or DVA minimum climb gradients. If the FAA determines that this impact would constitute a substantial adverse effect, it could be used as the basis for determinations of hazard.

Los Angeles International Airport (LAX)

Obstacle Departure Procedure (ODP) (e.g., Figure 6)

Runway 07L obstacle clearance surfaces are the lowest overlying Project Condor and range from 355 to 424 feet AMSL. These are one of the lowest height constraints in the eastern section of the study area.

Diverse Vector Area (DVA) (e.g., Figure 7)

Runway 07L obstacle clearance surfaces are the lowest overlying Project Condor and range from 355 to 424 feet AMSL. These are one of the lowest height constraints in the eastern section of the study area.

At 150 feet AGL, USGS elevation data indicates that these surfaces should not limit proposed buildings within the defined study area. Depending on placement, USGS elevation data indicates that 300 foot AGL temporary construction equipment would exceed these surfaces and would require a temporary increase to Runway 07L and 07R instrument departure procedure and/or DVA minimum climb gradients.

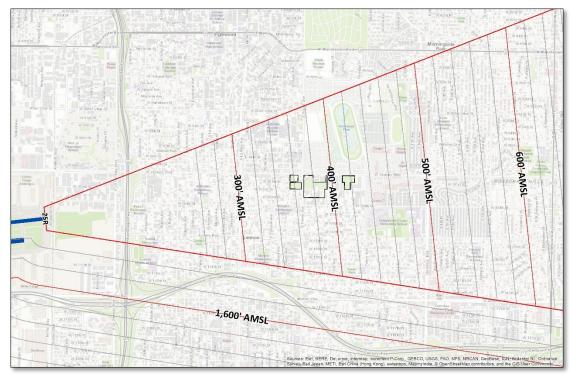


Figure 6: Los Angeles International Airport (LAX) Runway 07L obstacle departure procedure

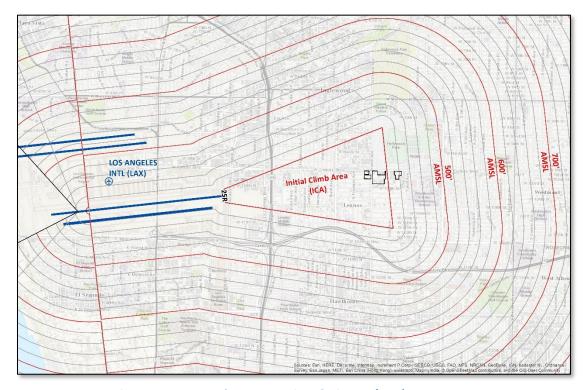


Figure 7: Los Angeles International Airport (LAX) Runway 07L diverse vector area (DVA) assessment



Instrument Approaches

Pilots operating during periods of reduced visibility and low cloud ceilings rely on terrestrial and satellite based navigational aids (NAVAIDS) in order to navigate from one point to another and to locate runways. The FAA publishes instrument approach procedures that provide course guidance to on-board avionics that aid the pilot in locating the runway. Capitol Airspace assessed a total of 29 published instrument approach procedures at two public-use airports in proximity to Project Condor.

Proposed structures that exceed instrument approach procedure obstacle clearance surfaces would require an increase to instrument approach procedure minimum altitudes. Increases to these altitudes, especially critical *decision altitudes (DA)* and *minimum descent altitudes (MDA)*, can directly impact the efficiency of an instrument approach procedures. If the FAA determines this impact to affect a significant volume of operations it could be used as the basis for determinations of hazard.

Instrument procedures assessed:

Los Angeles International (LAX)

ILS or Localizer Approach to Runway 06L ILS or Localizer Approach to Runway 06R ILS or Localizer Approach to Runway 07L ILS or Localizer Approach to Runway 07R ILS or Localizer Approach to Runway 24L ILS or Localizer Approach to Runway 24R ILS or Localizer Approach to Runway 25L ILS or Localizer Approach to Runway 25R ILS Approach to Runway 24R (CAT II & III) ILS Approach to Runway 25L (CAT II & III) RNAV (RNP) Z Approach to Runway 06L RNAV (RNP) Z Approach to Runway 06R RNAV (RNP) Z Approach to Runway 07L RNAV (RNP) Z Approach to Runway 07R RNAV (RNP) Z Approach to Runway 24L RNAV (RNP) Z Approach to Runway 24R RNAV (RNP) Z Approach to Runway 25L RNAV (RNP) Z Approach to Runway 25R RNAV (GPS) Y Approach to Runway 06L RNAV (GPS) Y Approach to Runway 06R RNAV (GPS) Y Approach to Runway 07L RNAV (GPS) Y Approach to Runway 07R RNAV (GPS) Y Approach to Runway 24L RNAV (GPS) Y Approach to Runway 24R RNAV (GPS) Y Approach to Runway 25L RNAV (GPS) Y Approach to Runway 25R

Jack Northrop Field/Hawthorne Municipal (HHR)

RNAV (GPS) Approach to Runway 25 Localizer Approach to Runway 25 VOR Approach to Runway 25



Los Angeles International Airport (LAX)

ILS or Localizer Approach to Runway 25L (Figure 8)

The *LADLE* to Runway 25L final stepdown segment MDA is 540 feet AMSL; the associated obstacle clearance surfaces (including Paragraph 2-9-10 *obstacle identification surface [OIS]*) range from 290 to 450 feet AMSL and are the lowest height constraints in the western half of the study area.

RNAV (GPS) Y Approach to Runway 25L

The *LADLE* to Runway 25L final stepdown segment MDA is 640 feet AMSL; the associated obstacle clearance surfaces (including Paragraph 2-9-10 *[OIS]*) range from 390 to 450 feet AMSL and is in excess of other lower surfaces.

RNAV (GPS) Y Approach to Runway 25R

The *GRIMY* to Runway 25L final stepdown segment MDA is 640 feet AMSL; the associated obstacle clearance surfaces (including Paragraph 2-9-10 *[OIS]*) range from 390 to 450 feet AMSL and is in excess of other lower surfaces.

At 150 feet AGL, USGS elevation data indicates that these surfaces should not limit proposed buildings within the defined study area. Depending on placement, USGS elevation data indicates that 300 foot AGL temporary construction equipment would exceed these surfaces and would require a temporary increase to instrument approach procedure MDAs.

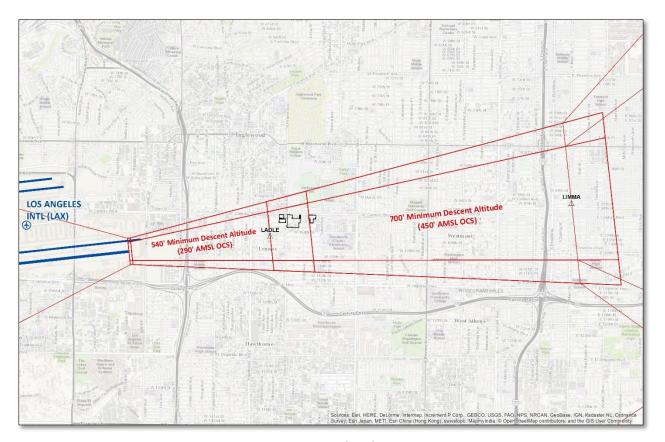


Figure 8: Los Angeles International Airport (LAX) Localizer Approach to Runway 25L



Enroute Airways

Enroute airways provide pilots a means of navigation when flying from airport to airport and are defined by radials between VHF omni-directional ranges (VORs). The FAA publishes minimum altitudes for airways to ensure clearance from obstacles and terrain. The FAA requires that each airway have a minimum of 1,000 feet of obstacle clearance in non-mountainous areas and normally 2,000 feet in mountainous areas.

Proposed structures that exceed enroute airway obstacle clearance surfaces would require an increase to minimum obstruction clearance altitudes (MOCA) and/or minimum enroute altitudes (MEA). If the FAA determines that this impact would constitute a substantial adverse effect, it could be used as the basis for determinations of hazard.

Low altitude enroute airways obstacle clearance surfaces (e.g., *Figure 9*) are in excess of other lower surfaces and should not limit 150 or 300 foot AGL structures within the defined study area.



Figure 9: Low altitude enroute chart L-4 and Project Condor



Minimum Vectoring/IFR Altitudes

The FAA publishes minimum vectoring altitude (MVA) and minimum instrument flight rules (IFR) altitude charts that define sectors with the lowest altitudes at which air traffic controllers can issue radar vectors to aircraft based on obstacle clearance. The FAA requires that sectors have a minimum of 1,000 feet of obstacle clearance in non-mountainous areas and normally 2,000 feet in mountainous areas.

Proposed structures that exceed minimum vectoring/IFR altitude sector obstacle clearance surfaces would require an increase to the altitudes usable by air traffic control for vectoring aircraft. If the FAA determines that this impact would affect a significant volume of operations, it could result in determinations of hazard.

Minimum vectoring/IFR altitude sector obstacle clearance surfaces (e.g., *Figure 10*) are in excess of other lower surfaces and should not limit 150 or 300 foot AGL structures within the defined study area.

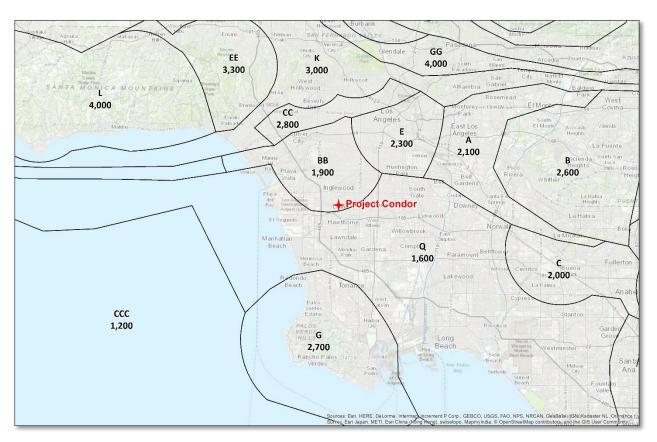


Figure 10: Southern California (SCT) TRACON minimum vectoring altitude sectors (black)



Military Airspace and Training Routes

Since the FAA does not protect for military airspace or training routes, impact on their operations cannot result in a determination of hazard. However, the FAA will notify the military of proposed structures located within these segments of airspace. If the planned development area is located on federal land, impact on military airspace or training routes may result in the denial of permits by the Bureau of Land Management.

Military airspace and training routes do not overlie Project Condor. Therefore, these segments of airspace should not result in military objections to proposed development.

Conclusion

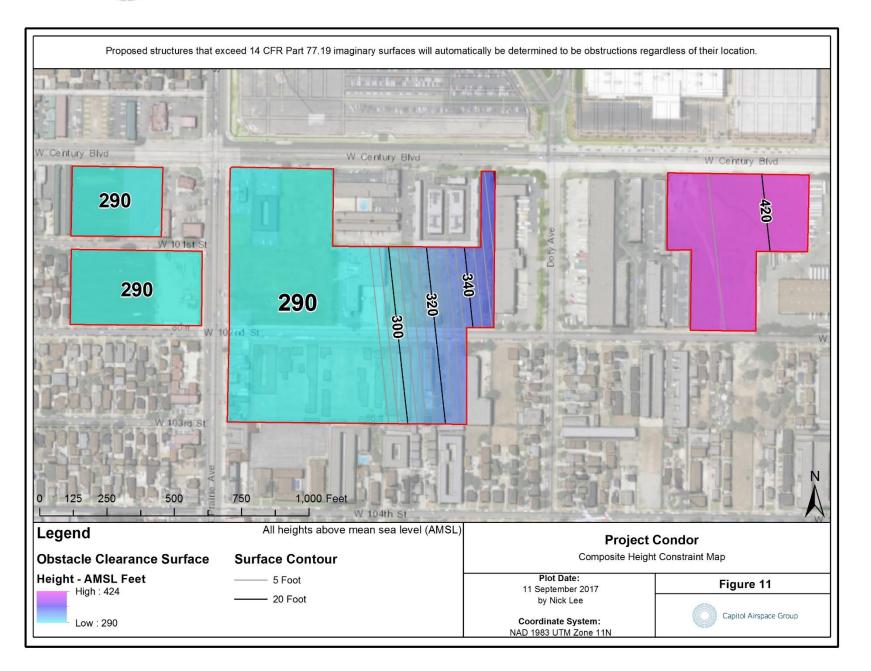
Proposed structures that exceed 14 CFR Part 77 imaginary surfaces (*Figure 3*) will be determined to be obstructions. However, structure heights in excess of 14 CFR Part 77 imaginary surfaces are feasible provided proposed structures do not exceed FAA obstacle clearance surfaces.

Current FAA obstacle clearances overlying Project Condor range from 290 to 424 feet AMSL (*Figure 11*) and are associated with Los Angeles International Airport instrument departure (*Figure 6* & *Figure 7*) and approach procedures (*Figure 8*). Proposed structures that exceed these surfaces would require an increase to instrument departure procedure and/or DVA climb gradients as well as instrument approach procedure minimum descent altitudes.

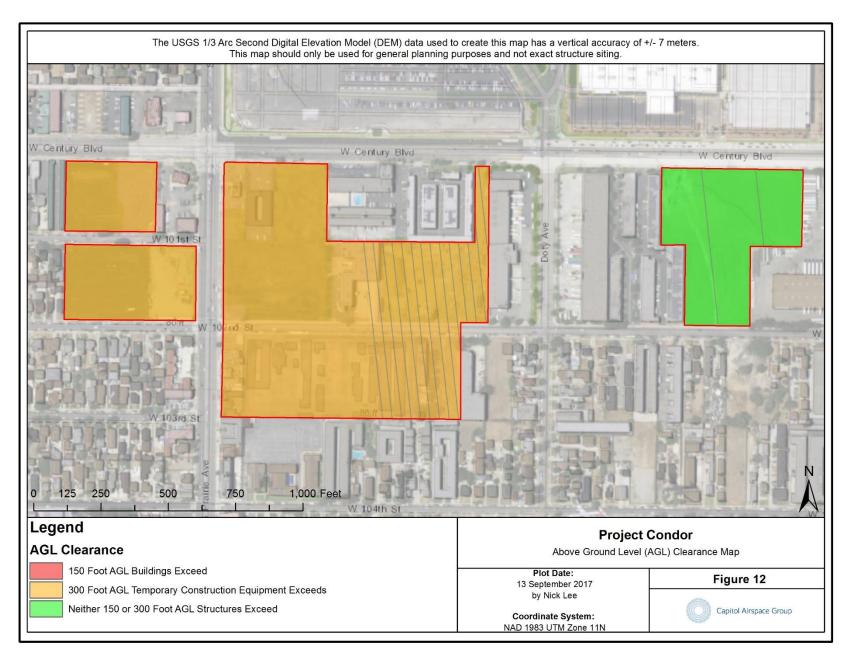
At 150 feet AGL, USGS elevation data indicates that these surfaces should not limit the proposed buildings within the defined study area. However, USGS elevation data indicates that temporary construction equipment, as high as 300 feet AGL, would exceed these surfaces and would require an increase to Los Angeles International Airport instrument departure procedure and/or DVA climb gradients as well as instrument approach procedure minimum descent altitudes (orange area, *Figure 12*). Unless mitigation options are identified and approved by the FAA, impact on these altitudes could be used as the basis for determinations of hazard.

Lastly, the FAA is in the process of designing and modifying multiple instrument procedures for Los Angeles International Airport. At the time of this report, associated design documentation was not publicly available. Although unlikely, it is possible that the associated obstacle clearance surfaces are lower than those described in this report.

If you have any questions regarding the findings of this study, please contact *Joe Anderson* or *Nick Lee* at (703) 256-2485.







IBEC Project: A description of Aeronautical Study Process and Results of an Obstruction Evaluation & Airspace Analysis

IBEC Project

Westslope Consulting Inglewood, California

A description of Aeronautical Study Process and Results of an Obstruction Evaluation & Airspace Analysis

May 10, 2019



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FAA's Aeronautical Study Process

The United States Congress has charged the Federal Aviation Administration (FAA) with the responsibility to promote air commerce in the United States. As part of this responsibility, the FAA is tasked with ensuring air safety and preserving the National Airspace System (NAS). It is through these mandates that the FAA draws its authority to conduct aeronautical studies of proposed structures. Below is an overview of the typical process and required steps for working through the aeronautical study process.

Step One: Providing Notification to the FAA

Developers intending to build structures in excess of certain notification criteria must notify the FAA. These criteria state that permanent or temporary structures with a planned height greater than 200 feet above ground level (AGL) must be submitted to the FAA for an aeronautical study. Additionally, structures that exceed a 100:1 (run:rise) slope within 20,000 feet of Jack Northrop Field/Hawthorne Municipal Airport (HHR) must also be submitted to the FAA (*Attachment 1*). This notice must be submitted to the FAA at least 45 days prior to the start of construction.²

Prior to the FAA's establishment of the FAA OE/AAA automation system, notice was provided to the FAA by submitting FAA Form 7460-1, Notice of Proposed Construction or Alteration.³ The FAA and industry continue to refer to these filings as "7460-1" filings.

These filings require basic information about each permanent and temporary structure to be studied. Specifically, the FAA requires that the structure's location, ground elevation, and height be submitted. Capitol Airspace recommends that developers obtain an FAA "1A" survey prior to this submittal. This stamped and signed survey will ensure that the FAA does not apply margin-of-error penalties to the final, approved height of the structure.

To avoid error and maintain standard data, the following is required:

- 1. Coordinates and heights must use the North American Datum of 1983 (NAD83) and the North American Vertical Datum of 1988 (NAVD88), respectively.
- 2. Exact latitude and longitude coordinates must be provided in degrees, minutes, and seconds rounded to the nearest hundredth of a second.
- 3. Site elevation must be provided in above mean sea level (AMSL) feet rounded to the nearest foot.
- 4. Structure height must be provided in above ground level (AGL) rounded to the next highest foot. This height should include all structures that could exist above roof-line, including parapets, lights, and mechanical equipment.

Once the FAA receives and verifies these filings, an aeronautical study number is issued for each point. This begins the aeronautical study process.

¹ 14 CFR §77 – Safe, Efficient Use, and Preservation of the Navigable Airspace

² 14 CFR §77.7 – Form and time of notice; and §77.9 – Construction or alteration requiring notice

³ https://oeaaa.faa.gov/oeaaa/external/portal.jsp



Step Two: Initial Review

Each project is assigned to a specialist within the FAA Obstruction Evaluation Group (OEG). For most projects, there are ten different government offices or agencies that take part in the study process, including: FAA Airports, FAA Instrument Flight Procedures Impact Team, FAA Flight Standards, FAA Technical Operations, FAA Frequency Management, United States Air Force, United States Navy, United States Army, Department of Homeland Security (DHS), and the Department of Defense (DoD).

Technicians in each of these offices will review each point to ensure that the planned structure does not interfere with their areas of responsibility. For example, the Instrument Flight Procedures Impact Team will assess for impact on instrument departure and approach procedures. The Technical Operations office will consider the potential for impacts on navigational aids and radar surveillance systems.

Once each office has assessed the proposed project, they submit a response of either "objection" or no-objection" via the FAA OE/AAA system. During this preliminary review period, the project is considered to be in "work status." Review by all responding offices typically takes between 60 and 90 days. After all offices have responded, the project is moved from "work status" into "evaluation status." It is at this point that the FAA Obstruction Evaluation Specialist will assess all of the responses and determine whether to issue a Notice of Presumed Hazard (NPH) or a favorable "Does Not Exceed" determination.

If any proposed structures exceed a 14 CFR Part 77 imaginary surface (e.g., *Attachment 2*), then an NPH is guaranteed and the FAA will require marking and lighting in accordance with FAA Advisory Circular 70/7460-1L. However, this does not automatically result in a Determination of Hazard. Proposed structures must have airspace or radar impacts that constitute a substantial adverse effect in order to warrant the issuance of a Determination of Hazard.

Step Three: Preliminary Results in a Notice of Presumed Hazard (NPH)

An NPH letter is meant to be a means for the FAA to notify the developer that the FAA has identified an issue that will require further aeronautical study in order to determine whether or not the structure will pose a hazard to air navigation. Typically, the FAA will also include any objections received by the various responding FAA, DoD, or DHS offices.

Step Four: Responding to a Notice of Presumed Hazard (NPH)

While there are many methods to resolve objections received on a project, nearly all NPH cases must be circularized to the public for comment. Public notices should be distributed to any party that can provide information relevant to FAA's aeronautical study.

The distribution list typically includes the following: 4

- All public-use airports within 13 nautical miles (NM) of the proposed structures
- All private-use airports within 5 NM of the proposed structures
- Any affected airport

⁴ As described in FAA Order 7400.2L Paragraph 6-3-17, "Circularization"



- The air traffic facility that provides radar vectoring services in the vicinity of the proposed structures
- FAA Flight Standards
- All known aviation interested persons such as state, city, and local aviation authorities
- Flying clubs and organizations

It is through this 37 day public comment period that the FAA solicits feedback from the flying community. Once the comment period closes, the FAA will discard comments that are not of a valid aeronautical nature. During this time, mitigation options that strike a balance between the needs of the development project and the FAA's need to preserve the NAS may be submitted.

Step Five: Final Determinations

At the end of the further aeronautical study and public comment period, the FAA will make a final decision and issue either a Determination of No Hazard or a Determination of Hazard. Favorable determinations are valid for 18 months. A one-time extension can be requested. This request is further reviewed by the FAA and may result in the issuance of an extension letter for an additional 18 months.

Step Six: Before and After Construction

Supplemental notice may require notification to the FAA both prior to, and shortly after, construction. This allows the FAA to chart each structure so that pilots are aware of the new, taller development. Lastly, the FAA may take action to temporarily or permanently modify airspace to accommodate the proposed structures.

Results of Obstruction Evaluation and Airspace Analysis

Capitol Airspace conducted an obstruction evaluation and airspace analysis for the IBEC Project in Inglewood, California. The purpose of this analysis was to identify obstacle clearance surfaces established by the Federal Aviation Administration (FAA) that could limit buildable heights within an approximately 27 acre study area (red outline, *Figure 1*). At the time of this analysis, the tallest proposed permanent development was 240 feet above mean sea level (AMSL) while the tallest proposed temporary construction equipment was estimated at 290 feet AMSL.

Height constraints overlying the IBEC Project range from 290 to 450 feet AMSL (*Attachment 3*) and are associated with the Los Angeles International Airport (LAX) Localizer Approach to Runway 25L final approach segment. It should be noted that the proposed buildings and temporary construction equipment are well outside of Los Angeles International Airport runway protection zones (*Attachment 4*).

At a maximum height of 290 feet AMSL, proposed buildings and temporary construction equipment will exceed 14 CFR Part 77 imaginary surfaces. As a result, it is likely that the FAA will require circularization for public comment for the proposed buildings. However, these structures (both permanent and temporary) will not have an impact on Los Angeles International Airport nor Hawthorne Municipal Airport (HHR) visual flight rules (VFR) operations or published instrument flight rules (IFR) procedures. As a result, it is likely that the FAA will issue favorable determinations of no hazard, exclusive of potential interference on communications, navigation, or surveillance radar systems.

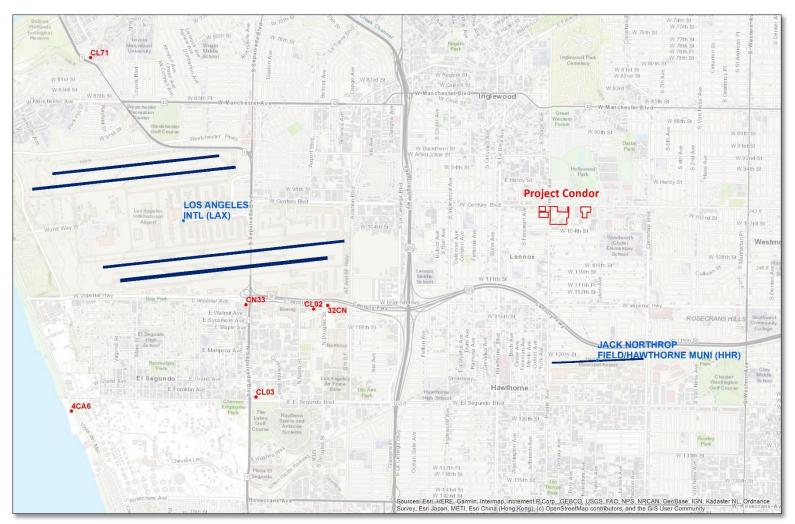


Figure 1: Public-use (blue) and private-use (red) airports in proximity to the IBEC Project

