



To: Christopher J Hope, Manager, Flight Technologies and Procedures Division
THRU: Romana Wolf, Acting Manager, Flight Procedures and Airspace Group.

February 15, 2022

Mojave Air and Space Port (KMHV), Mojave, CA, RNAV (GPS) RWY 30, Original, is resubmitted for processing and submission to AMC-AJV-IFP-ProdCoordTeam@faa.gov and 9-AMC-AJW-TL@faa.gov for publication. TARGETS reference software results are attached to facilitate review.

Please note the approval request for publication of mandatory and block altitudes.

Version 1 submission updates include:

- Expanding PMD VORTAC airway use restriction to include radial 233.
- Adding the Letter of Agreement (unsigned) between 412th Test Wing, Space Positioning Optical Radar Tracking Military Radar Unit, Mojave Non-Federal Contract Airport Traffic Control Tower, Joshua Approach Control and R-2508 Complex Control Board regarding Runway 30/26 Approach and Glazy One Departure Procedures.

Previously included procedure updates include:

- Circling Not Authorized remarks added to 8260-9, Page 9, *Circling NA, CATs C/D CMDAs would require greater than 4000 FAF altitude.*
- Missed Approach: Revised to, (Do not exceed 200 KIAS until MEDGE) *Climb direct COVMA, then climbing left turn to 6000 on track 213.77 to MEDGE and track 185.01 to JERID and hold.* *Missed approach requires minimum climb of 350 feet per NM to 5000.

Flight Validation checklists are attached to CA_KMHV_RNAV GPS RWY 30_ORIG_S file.

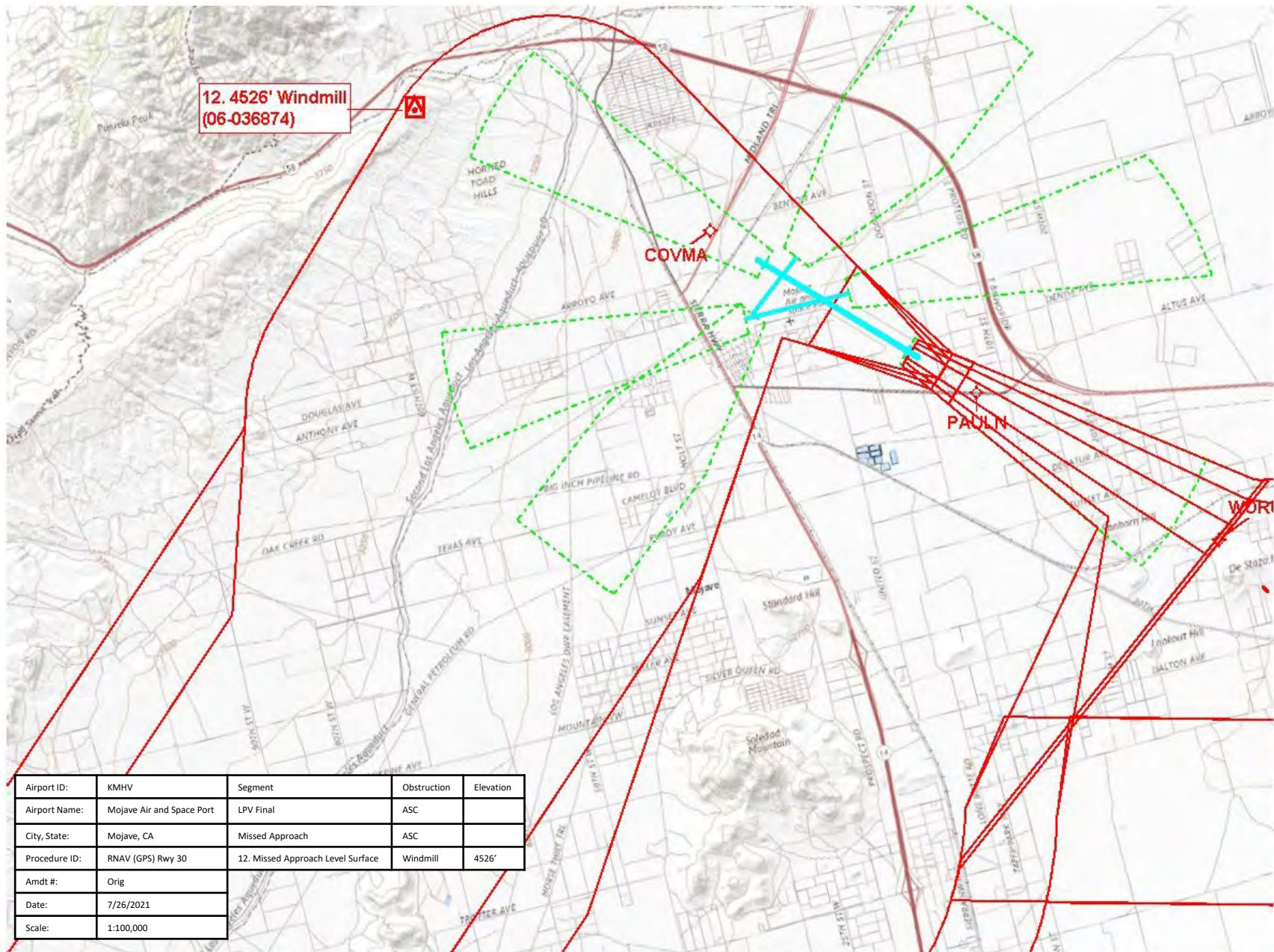
Sincerely,

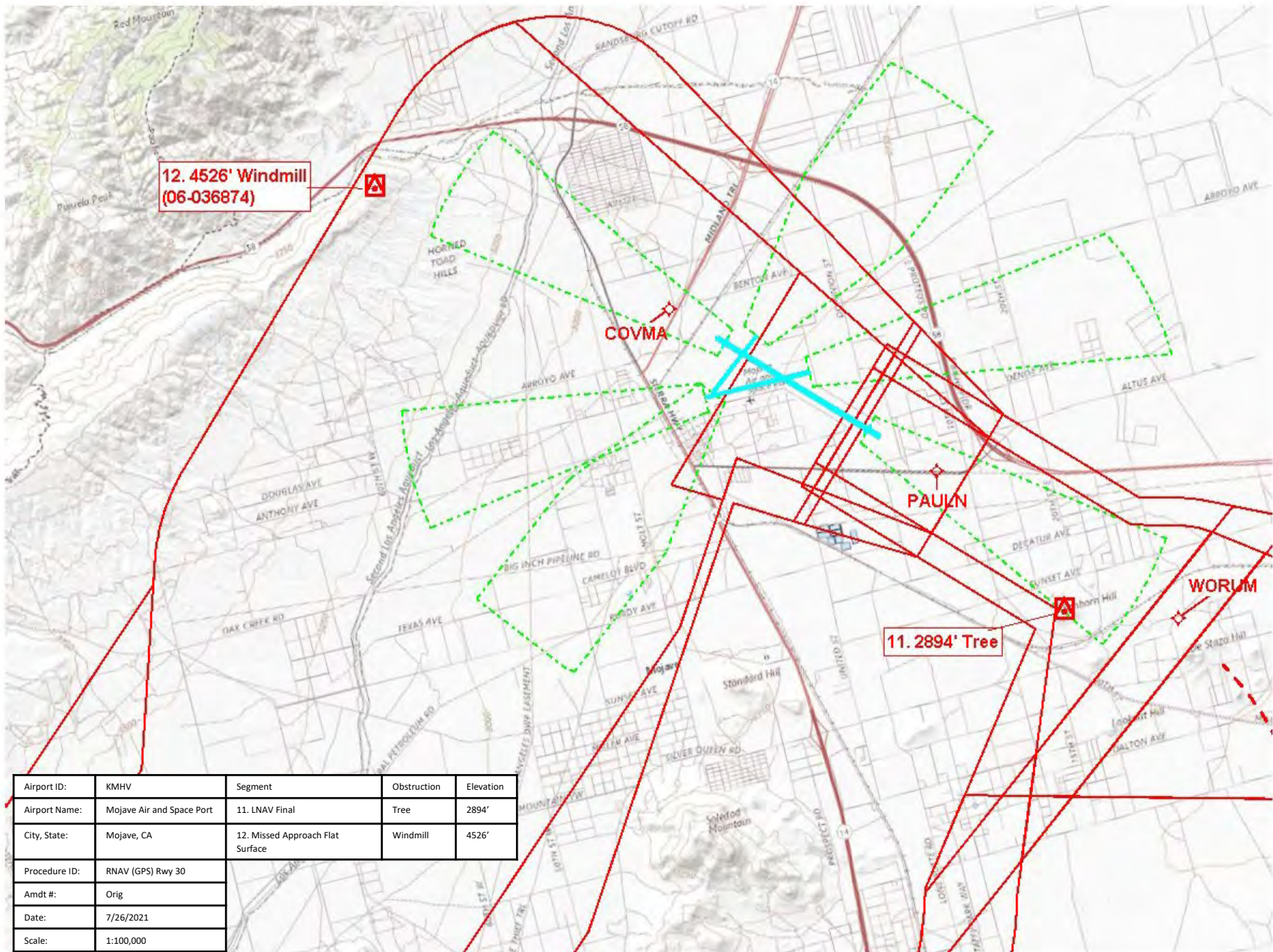
A handwritten signature in black ink, appearing to read 'B. Berubee'.

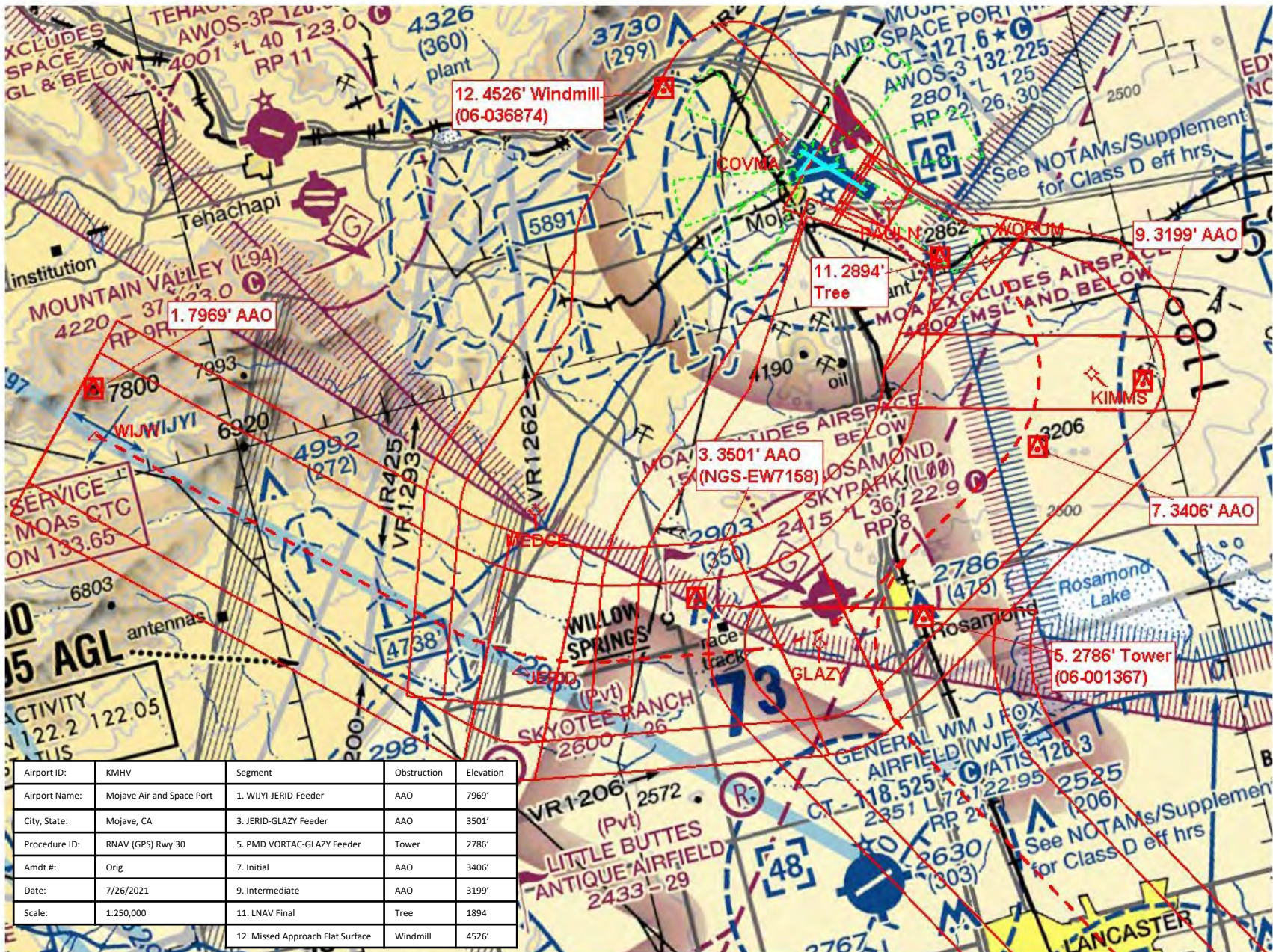
Brian Berubee
Chief Designer
Hughes Aerospace Corporation
Office: 281.655.3330
Brian.berubee@hughesaerospace.com

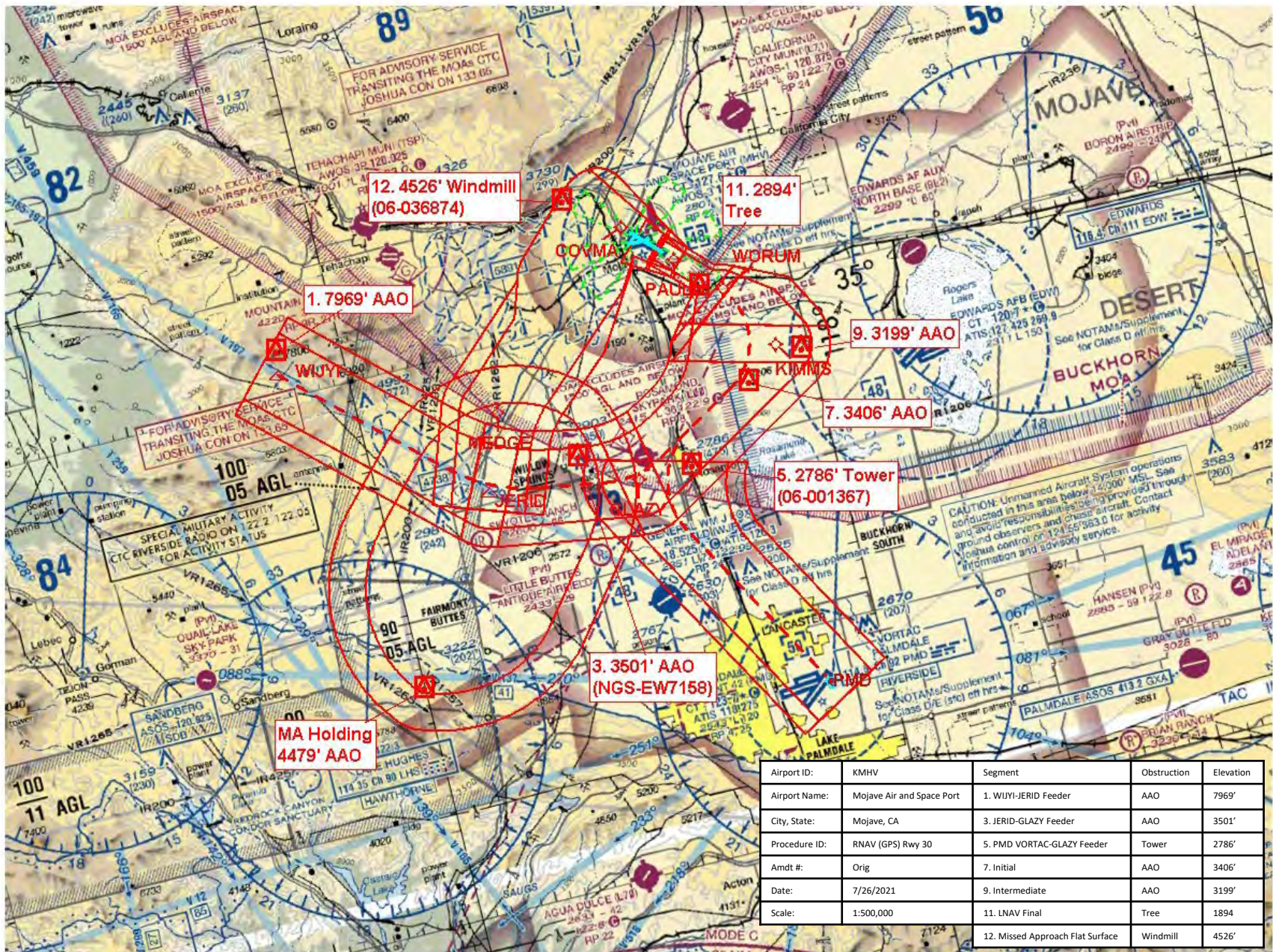
Enclosures:

CA_KMHV_RNAV GPS RWY 30_ORIG_AFS_A
CA_KMHV_RNAV GPS RWY 30_ORIG_F
CA_KMHV_RNAV GPS RWY 30_ORIG_S
CA_KMHV_RNAV GPS RWY 30_ORIG_8260-2
CA_KMHV_RNAV GPS RWY 30_ORIG_P (Reference Software results)









Airport ID:	KMHV	Segment	Obstruction	Elevation
Airport Name:	Mojave Air and Space Port	1. WIUYI-JERID Feeder	AAO	7969'
City, State:	Mojave, CA	3. JERID-GLAZY Feeder	AAO	3501'
Procedure ID:	RNAV (GPS) Rwy 30	5. PMD VORTAC-GLAZY Feeder	Tower	2786'
Amdt #:	Orig	7. Initial	AAO	3406'
Date:	7/26/2021	9. Intermediate	AAO	3199'
Scale:	1:500,000	11. LNAV Final	Tree	1894'
		12. Missed Approach Flat Surface	Windmill	4526'

**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
CATEGORICAL EXCLUSION DECLARATION**

**Mojave Air and Space Port
Mojave, California**

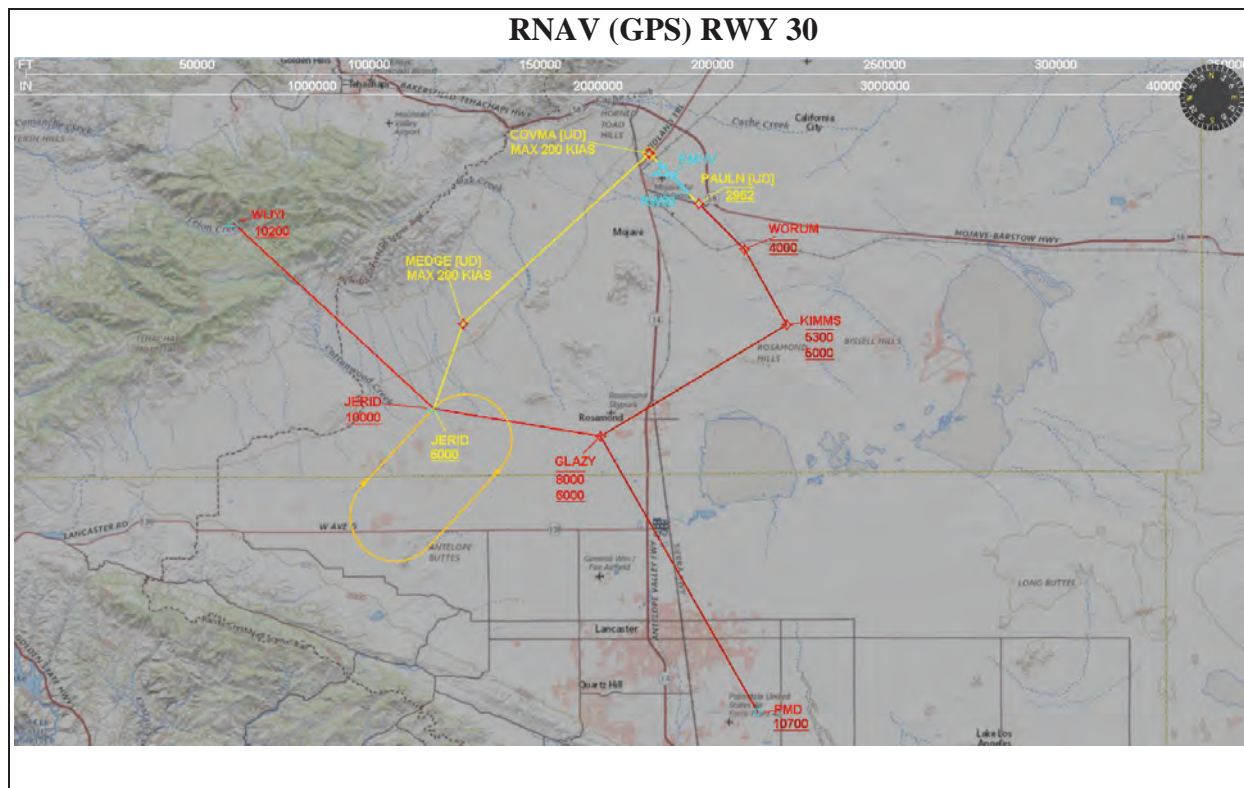
**RNAV (GPS) RWY 30 (New)
GLAZY ONE DEPARTURE (RNAV) (New)**

Description of Action:

The Federal Aviation Administration (FAA) is proposing to establish Area Navigation (RNAV) Global Positioning System (GPS) Runway (RWY) 30 and GLAZY ONE DEPARTURE (RNAV) RWY 12 for Mojave Air and Space Port (KMHV), Mojave, California. The procedures are proposed at the request of KMHV for public use to support space flight testing and research for the United States and North Atlantic Treaty Organization (NATO).

The RNAV (GPS) RWY 30 flight procedure provides a straight-in instrument approach procedure to RWY 30 at KMHV. RWY 30 is 12,503 feet long and currently has no instrument approach procedure. The GLAZY ONE DEPARTURE (RNAV) provides instrument departure connectivity to Victor Airway V-197, with a lower minimum climb gradient requirement than that of the JERID FIVE DEPARTURE (RNAV) for RWY 30.

The proposed procedures are depicted in the following figures.



Procedure Name	Scheduled Pub Date	Status
RNAV (GPS) A, ORIG 0	5/19/2022	Pending
RNAV (GPS) D, AMDT 1	5/19/2022	Awaiting Cancellation
RNAV- E, AMDT 1 (SPECIAL)	5/19/2022	Awaiting Cancellation
DEPARTURE SID MEEKER FOUR	4/20/2023	Pending

In accordance with FAA Order 1050.1F, Paragraph 5-2, Extraordinary Circumstances, the FAA has reviewed the proposed action for factors and circumstances in which a normally categorically-excluded action may have a significant environmental impact requiring further analysis. The FAA has determined that no extraordinary circumstances exist that warrant additional environmental review.

The FAA has reviewed the above referenced proposed action and it has been determined, by the undersigned, to be categorically excluded from further environmental documentation according to FAA Order 1050.1F, *Environmental Impacts: Policies and Procedures*. The implementation of this action will not result in any extraordinary circumstances in accordance with FAA Order 1050.1F.


Basis for this Determination:

The Air Traffic Initial Environmental Review (IER) was processed and reviewed by the Western Service Center. This review was conducted in accordance with policies and procedures in Department of Transportation Order 5610.1C, *Procedures for Considering Environmental Impacts*, and FAA Order 1050.1F.

The applicable categorical exclusion is:


5-6.5.i. - Establishment of new or revised air traffic control procedures conducted at 3,000 feet or more above ground level (AGL); procedures conducted below 3,000 feet AGL that do not cause traffic to be routinely routed over noise sensitive areas; modifications to currently approved procedures conducted below 3,000 feet AGL that do not significantly increase noise over noise sensitive areas; and increases in minimum altitudes and landing minima.

Recommended by:**Facility Air Traffic Manager Review/Concurrence**

Signature: **MIGUEL J ANAYA III**  Digitally signed by MIGUEL J ANAYA III
Date: 2021.10.12 07:51:10 -07'00' Date: _____


Name: Miguel J. Anaya
Air Traffic Manager
Joshua Control Facility

Concurrence by:**Western Service Area Environmental Specialist**

Signature: **VIKAS UBEROI**  Digitally signed by VIKAS UBEROI
Date: 2021.10.12 08:16:14 -07'00' Date: _____

Name: Vikas Uberoi
Environmental Protection Specialist, Operations Support Group
Western Service Center, AJV-W25

Approval by:**Western Service Area Director or Designee Approval**

Signature: **BYRON G Y CHEW**  Digitally signed by BYRON G Y CHEW
Date: 2021.10.12 14:26:49 -07'00' Date: _____

Name: B. G. Chew
Acting Group Manager, Operations Support Group
Western Service Center, AJV-W2

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
OBSTACLE ASSESSMENT CHECKLIST**

1. DATE <u>12/16/2020</u>	2. ORGANIZATION <u>HUGHES AEROSPACE CORPORATION</u>	
3. AIRPORT <u>KMHV</u>	4. PROCEDURE <u>RNAV (GPS) RWY 30</u>	5. AMEND # <u>ORIG</u>
6. AIRCRAFT TYPE <u>TBM850</u>	7. FMS / SOFTWARE <u>GTN 750 Version 6.5.2</u>	
8. PIC NAME / PHONE <u>CHRIS BAUR 281-655-3330</u>	9. EVALUATOR NAME / PHONE <u>CHRIS BAUR 281-655-3330</u>	

TERPS BIENNIAL REVIEW			
31. BIENNIAL	<u>NA</u>	32. DATE BIENNIAL COMPLETE _____	
OBSTACLE ASSESSMENT TASKS			
33 EQUIPMENT ACCURACY VERIFIED	<u>YES</u>		
IAP SEGMENT CHECKS			
TRANS <u>PMD</u>			
34. DOCUMENTED CONTROLLING OBSTACLE VERIFIED	<u>YES</u>	35. CONTROLLING OBSTACLE MOST ADVERSE	<u>YES</u>
TRANS <u>ZALJE</u>			
34. DOCUMENTED CONTROLLING OBSTACLE VERIFIED	<u>YES</u>	35. CONTROLLING OBSTACLE MOST ADVERSE	<u>YES</u>
TRANS <u>JERID</u>			
34. DOCUMENTED CONTROLLING OBSTACLE VERIFIED	<u>YES</u>	35. CONTROLLING OBSTACLE MOST ADVERSE	<u>YES</u>
TRANS <u>GLAZY</u>			
34. DOCUMENTED CONTROLLING OBSTACLE VERIFIED	<u>YES</u>	35. CONTROLLING OBSTACLE MOST ADVERSE	<u>YES</u>

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
OBSTACLE ASSESSMENT CHECKLIST**

TRANS KIMMS

34. DOCUMENTED CONTROLLING OBSTACLE
VERIFIED

YES

35. CONTROLLING OBSTACLE MOST ADVERSE

YES

FINAL

34. DOCUMENTED CONTROLLING OBSTACLE
VERIFIED

YES

35. CONTROLLING OBSTACLE MOST ADVERSE

YES

MISSED APPROACH

34. DOCUMENTED CONTROLLING OBSTACLE
VERIFIED

YES

35. CONTROLLING OBSTACLE MOST ADVERSE

YES

HOLDING

34. DOCUMENTED CONTROLLING OBSTACLE
VERIFIED

YES

35. CONTROLLING OBSTACLE MOST ADVERSE

YES

IAP VISUAL SEGMENT

**VISUAL SEGMENT OR COPTER
PROCEED VISUALLY/VFR AREA**

36. VERIFIED CLEAR

YES

37. APPROPRIATE MITIGATIONS IN PLACE IF NOT CLEAR NA

STAR SEGMENT CHECKS

EN ROUTE TRANS

34. DOCUMENTED CONTROLLING OBSTACLE
VERIFIED

35. CONTROLLING OBSTACLE MOST ADVERSE

COMMON ROUTE

34. DOCUMENTED CONTROLLING OBSTACLE
VERIFIED

35. CONTROLLING OBSTACLE MOST ADVERSE

RWY TRANS

34. DOCUMENTED CONTROLLING OBSTACLE
VERIFIED

35. CONTROLLING OBSTACLE MOST ADVERSE

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
OBSTACLE ASSESSMENT CHECKLIST**

DEPARTURE SEGMENT CHECKS

ICA OR COPTER PROCEED VISUALLY

34. DOCUMENTED CONTROLLING OBSTACLE
VERIFIED _____

36. VERIFIED CLEAR _____

35. CONTROLLING OBSTACLE MOST ADVERSE _____

37. APPROPRIATE MITIGATIONS IN PLACE IF
NOT CLEAR _____

RWY TRANS _____

34. DOCUMENTED CONTROLLING OBSTACLE
VERIFIED _____

36. VERIFIED CLEAR _____

35. CONTROLLING OBSTACLE MOST ADVERSE _____

37. APPROPRIATE MITIGATIONS IN PLACE IF
NOT CLEAR _____

COMMON ROUTE

34. DOCUMENTED CONTROLLING OBSTACLE
VERIFIED _____

35. CONTROLLING OBSTACLE MOST ADVERSE _____

TRANS _____

34. DOCUMENTED CONTROLLING OBSTACLE
VERIFIED _____

35. CONTROLLING OBSTACLE MOST ADVERSE _____

OBSTRUCTION DISCREPENCIES

38. OBSTACLE IN DATABASE DOES NOT EXIST

OBSTACLE ID _____

HEIGHT MSL/AGL _____

COORDINATES _____

SUPPORTING DOC _____

39. OBSTACLE NOT IN DATABASE

OBSTACLE ID _____

HEIGHT MSL/AGL _____

COORDINATES _____

SUPPORTING DOC _____

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
OBSTACLE ASSESSMENT CHECKLIST**

40. OBSTACLE DATA INCORRECT

OBSTACLE ID _____	HEIGHT MSL/AGL _____
COORDINATES _____	SUPPORTING DOC _____

OBSTRUCTION NOTIFICATION

41. OBSTACLE DATA DISCREPENCIES SENT TO NFDC _____	42. DATE SENT _____
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51. EVALUATOR NOTES

53. PROCEDURE SAT _____

54. EVALUATOR SIGNATURE Chris Baur

Digitally signed by Chris Baur
Date: 2020.12.25 14:11:13 -06'00'

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
FLIGHT VALIDATION CHECKLIST**

1. DATE 12/16/2020	2. ORGANIZATION HUGHES AEROSPACE CORPORATION	
3. AIRPORT KMHV	4. PROCEDURE RNAV (GPS) RWY 30	5. AMEND # ORIG
6. AIRCRAFT TYPE TBM850	7. FMS / SOFTWARE GTN 750 Version 6.52	
8. PIC NAME / PHONE CHRIS BAUR 281-655-3330	9. EVALUATOR NAME / PHONE CHRIS BAUR 281-655-3330	

FLIGHT VALIDATION TASKS			
10. FMS NAV DATA AND SOURCE COMPARISON SAT	YES	43. SIMULATOR AND OBSTACLE NOTES REVIEWED	YES
11. IAP ASSESSED TO DA / MDA	YES	44. AIR / GROUND COMMUNICATIONS SATISFACTORY	YES
12. DP / MISSED APPROACH ASSESSED AT MINIMUM CLIMB GRADIENTS	YES	45. RADAR COVERAGE ADEQUATE	YES
15. FLYABILITY SATISFACTORY	YES	46. ADEQUATE NAVIGATION PERFORMANCE ACHIEVED	YES
33. EQUIPMENT ACCURACY VERIFIED	YES	47. RUNWAY MARKINGS / FEATURES VERIFIED	YES
35. DOCUMENTED CONTROLLING OBSTACLE MOST ADVERSE	YES	48. FAS DATA BLOCK SATISFACTORY	YES
CHARTING CHECKLIST			
16. CHART DETAIL SATISFACTORY	YES	20. TEMPERATURE LIMIT NOTED	NO
17. RNP < 1.0 IN MISSED APPROACH NOTED	NO	21. AIRCRAFT SIZE NOTED	YES
18. NON-STANDARD SPEED / CLIMB NOTED	YES	22. CHART MATCHES FLIGHT TRACK	YES
19. RF LEGS NOTED	NO		
IAP SEGMENT CHECKS			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> TRANS PMD </div> <div style="width: 45%;"></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;">24. COURSES P</div> <div style="width: 30%;">25. DISTANCES P</div> <div style="width: 30%;">27. TAWS P</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;">28. CONSTRAINTS MET YES</div> <div style="width: 30%;">29. WIND COMP 123@25</div> <div style="width: 30%;">30. RF BANK ANGLE NA</div> </div>			

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
FLIGHT VALIDATION CHECKLIST**

TRANS ZALJE

24. COURSES P	25. DISTANCES P	27. TAWS P	
28. CONSTRAINTS MET YES	29. WIND COMP 123@25	30. RF BANK ANGLE NA	

TRANS JERID

24. COURSES P	25. DISTANCES P	27. TAWS P	
28. CONSTRAINTS MET YES	29. WIND COMP 123@25	30. RF BANK ANGLE NA	

TRANS GLAZY

24. COURSES P	25. DISTANCES P	27. TAWS P	
28. CONSTRAINTS MET YES	29. WIND COMP 123@25	30. RF BANK ANGLE NA	

TRANS KIMMS

24. COURSES P	25. DISTANCES P	27. TAWS P	
28. CONSTRAINTS MET YES	29. WIND COMP 050@11	30. RF BANK ANGLE NA	

FINAL

24. COURSES P	25. DISTANCES P	26. FPA P	27. TAWS P
28. CONSTRAINTS MET YES	29. WIND COMP 050@11	30. RF BANK ANGLE NA	

MISSED APPROACH

24. COURSES P	25. DISTANCES P	27. TAWS P	
28. CONSTRAINTS MET YES	29. WIND COMP 120@21 KTS	30. RF BANK ANGLE NA	

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
FLIGHT VALIDATION CHECKLIST**

HOLDING

24. COURSES	P	25. DISTANCES	P	27. TAWS	P
28. CONSTRAINTS MET	YES	29. WIND COMP	100@23	30. RF BANK ANGLE	NA
49. VISUAL SEGMENT	SAT	50. NIGHT EVALUATION	NA		

STAR SEGMENT CHECKS

EN ROUTE TRANS

24. COURSES	25. DISTANCES	27. TAWS
28. CONSTRAINTS MET	29. WIND COMP	30. RF BANK ANGLE

COMMON ROUTE

24. COURSES	25. DISTANCES	27. TAWS
28. CONSTRAINTS MET	29. WIND COMP	30. RF BANK ANGLE

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RWY TRANS

24. COURSES	25. DISTANCES	27. TAWS
28. CONSTRAINTS MET	29. WIND COMP	30. RF BANK ANGLE

DEPARTURE SEGMENT CHECKS

ICA OR COPTER PROCEED VISUALLY

24. COURSES	25. DISTANCES	27. TAWS
28. CONSTRAINTS MET	29. WIND COMP	30. RF BANK ANGLE

RWY TRANS

24. COURSES	25. DISTANCES	27. TAWS
28. CONSTRAINTS MET	29. WIND COMP	30. RF BANK ANGLE

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
FLIGHT VALIDATION CHECKLIST**

COMMON ROUTE

24. COURSES _____ 25. DISTANCES _____ 27. TAWS _____
28. CONSTRAINTS MET _____ 29. WIND COMP _____ 30. RF BANK ANGLE _____

TRANS

24. COURSES _____ 25. DISTANCES _____ 27. TAWS _____
28. CONSTRAINTS MET _____ 29. WIND COMP _____ 30. RF BANK ANGLE _____

51. EVALUATOR NOTES

NIGHT EVAL PERFORMED BY FAA FOR RNAV (GPS) RWY 04 AND RNAV (GPS) RWY 22

SPECIAL TRAINING RECOMMENDATION FROM DEVELOPER

53. PROCEDURE SAT _____

54. EVALUATOR SIGNATURE Chris Baur Digitally signed by Chris Baur
Date: 2020.12.25 14:12:10 -06'00'