Flight Procedures Cover Page	Task Action: FLIGHT CHECK	Task Type: STAR	Estimated Chart Date: 06/12/2025	APWS Task ID: 7F18D209C0EA40228E4F1841B5CEA85F	APWS Project ID: 23F35FAB7F5B42598FBEFBCB3CCC8251			
Procedure: Enroute: OAKES (RNAV) THREE ARRIVAL YES			Specialist: Damron, Todd		Agreement Number:			
Airport ID: KOAK			Airport City: OAKLAND		State: CA			
Facility ID:	Facility Type: Flight Inspection Remark Type:							

New FC Slot

Procedure Comments:

PROCEDURE REDESIGNED PER PBN.

WAIVER FOR SPEED RESTRICTION AT FFIST AND LOHGN

POC: ALLAN WILL (AJV-A423), 405-954-6103

01/14/25: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 10/2/24.

1. SPEED RESTRICTION 210 CHANGED TO 200 KIAS AT FIX FFIST/LOHGN

02/10/2025

14 CASECKE



					FIP	C D	ME/DM	E F	ORM	[
PROCEDURE:					AIR	PORT	NAME:			A	AIRPOR	T ID:	SPECIAL CONTROL NO:						
STAR OAKES TH	IREE (RNA	V) OAK	LAND CA	KOAK	SAI	SAN FRANCISCO BAY OAKLAND KOA			KOAK	SG-12-26			-267-24						
FAC ID: OAKES3	3		CITY: OA	AKLAND	•	ST: (ST: CA		ORIG	CHA	ART DATE: 04/17/2025					
DFL TYPE:	THIRD P	ARTY:	EST. TIM	E ON SITE:	REIMB	REIMB. NUMBER: PTS TASK ID:						•							
PROC/D		YES	7F18D209C0EA40228E4F184								E4F1841B	5CEA8	5F						
PREFLIGHT NOTES																			
REVIEWER: joseph r jaquish DATE: 01/22/2025																			
COMMENTS:												CHECK C	NE:						
Flight check requir	ed to assess	s DME/D	ME perform	nance and flyal	oility of p	rocedur	·e.					X FLT	CK REQ			REJ	JECT		
															YES	NO			
												CPV COM	V COMPLETE? X						
PROCEDURE RESULTS																			
INSPECTION DA	TE:	CREV	V #:	N #:	INST	RUME	ENT PROCE	DURE	STATUS	S:		ARINC CODING:							
01/22/2025		VN57	'1	N76	\mathbf{X} S	AT	SAT W	//CHA	NGES	U	JNSAT	X SA	Γ [☐ SAT/GOLD ☐ UNSAT					
FLIGHT INSPEC	TOR SIGN	NATURE	E:		PRIN	TED I	NAME:						NOTAM INITIATED?						
joseph r jaquish @	01/22/2025	5 20:05			JAQ	UISH, J	JOSEPH RIC	HARD					☐ YES 🗓 NO						
FLIGHT INSPECTOR REMARKS: Sat, nothing significant to report. Procedure Satisfactory for GNSS operations, DME/ DME awaiting AFS/ WAJR approval																			
DME/DME STAT	US:	SPEC	IALIST SI	GNATURE:						P	PRINTE	NAME:							
X SAT	UNSAT	mark	a-ctr tellier	@ 02/27/2025	10:34					N	Mark Tel	ier							
SPECIALIST RE																			
No new ESVs Required.																			
IN-FLIGHT OBSTACLE REPORT																			
OBSTRUCTION ID #: COORDINATES OR LOCATION: GNSS ALTITUDE (MSL): BAROMETRIC ALTITUDE (MSL): HEIGHT ABOVE							ABOVE GRO	DUND LI	EVEL:										

				FII	PC D	ME/DM	E F	ORM										
PROCEDURE:				AII	RPORT	NAME:			A	AIRPORT ID:		SPECIAL CONTROL NO:						
STAR OAKES TH	REE (RNAV)	OAKI	LAND CA KOAK	SA	SAN FRANCISCO BAY OAKLAND KO			KOAK		SG-12-267-24								
FAC ID: OAKES3	}		CITY: OAKLAND	•	ST:				T: CA	CA ORIG CHA			ART DATE: 04/17/2025					
DFL TYPE:	THIRD PAR	RTY:	EST. TIME ON SITE:	REIMI	REIMB. NUMBER: PTS TASK ID:						•							
PROC/D	☐ YE	ES	5 1.0 7F18D209C0EA40228E4F1841B5CE								5CEA8	85F						
PREFLIGHT NOTES																		
REVIEWER: joseph r jaquish DATE: 01/22/2025																		
COMMENTS:											CHECK C	ONE:						
Flight check requir	ed to assess D	ME/DI	ME performance and flya	bility of p	orocedur	re.					X FLT	CK RE	Q	☐ NFCR	JECT			
															YES	NO		
										-	CPV COM	/IPLET	E?	X				
PROCEDURE RESULTS																		
INSPECTION DA	TE:	CREW	V #: N #:	INST	ΓRUMF	ENT PROCE	DURE	STATUS	S:		ARINC CODING:							
01/22/2025		VN57	1 N76	X	SAT	SAT W	//CHAI	NGES	U	NSAT	X SA	Г [SA	AT/GOLD UNSAT				
FLIGHT INSPEC	TOR SIGNA	TURE	:	PRI	NTED N	NAME:						NOTAM INITIATED?						
joseph r jaquish @	01/22/2025 20	0:05		JAQ	UISH, J	JOSEPH RICI	HARD							YES X NO				
FLIGHT INSPECTOR REMARKS: Sat, nothing significant to report. Procedure Satisfactory for GNSS operations, DME/ DME awaiting AFS/ WAJR approval																		
DME/DME STAT	US:	SPEC	IALIST SIGNATURE:						Pl	RINTEI	NAME:	AME:						
☐ SAT ☐	UNSAT																	
SPECIALIST REMARKS:																		
IN-FLIGHT OBSTACLE REPORT																		
OBSTRUCTION ID #: COORDINATES OR LOCATION: GNSS ALTITUDE (MSL): BAROMETRIC ALTITUDE (MSL): HEIGHT ABOVE OF							ABOVE GRO	OUND LI	EVEL:									

1. FLIGHT PROCEDURE IDENTIFICATION:

Oakland, CA San Francisco Bay Oakland International Airport (KOAK) OAKES RNAV STAR

2. WAIVER REQUIRED AND APPLICABLE STANDARD:

Request a waiver to use 200 KIAS design airspeed on a STAR. FAA Order 8260.58C, paragraph 1-2-5, Table 1-2-2, Indicated Airspeeds (KIAS) for a STAR reflects a minimum design speed of 210 KIAS below 10000' MSL for Category D aircraft.

3. REASON FOR WAIVER (JUSTIFICATION FOR NONSTANDARD TREATMENT):

NCT has received multiple ATSAPs concerning speeds below Bravo airspace. We have and continue to encounter variations in pilot application. Some pilots question ATC if they need to slow if the speed is not published on their route. Some pilots slow at the first fix under the Bravo, some slow as they are traversing under Bravo, while others begin slowing prior to flying underneath Bravo airspace in anticipation of encountering it. These varying applications and unpredictability cause compression issues for the controllers and pilots. Standard and predictable slowing will lead to increased safety and efficiency.

Fix: LOHGN: SPEED RESTRICTION 200KTS: ALTITUDE (Mandatory 6000)

Fix: FFIST: SPEED RESTRICTION 200KTS: ALTITUDE (8000-9000)

- In the instance the aircraft is at 7000, they are now below the Class Bravo Airspace.

4. EQUIVALENT LEVEL OF SAFETY PROVIDED:

The STAR was designed with Industry input and has their endorsement based on various aircraft flight simulator results. Slowing to 200 KIAS prior to the BRAVO prevents unpredictable speed reductions that result in overtakes.

5. ALTERNATIVE ACTIONS DEEMED NOT FEASIBLE:

Alternatives were considered however none were feasible due the need for slower, and consistent airspeeds when entering the terminal environment in order for ATC to safely sequence aircraft for multiple airport and arrival runway operations.

6. COORDINATION WITH USER ORGANIZATIONS (SPECIFY):

Flight Standards

7. SUBMIT	TED BY:		
DATE	OFFICE IDENTIFICAT	TION TITLE	SIGNATURE
01/17/25	AJV A42	MGR	Digitally signed b ALLAN WILL
8. AFS AC	TIONS:		Feb 18, 2025
	OVED DISAPPROVE	D NOT REQUIRED	
COMMENT	rs:		
DATE	ROUTING SYMBOL	SIGNATURE	

Flight Procedures Cover Page	Task Action: FLIGHT CHECK	Task Type: STAR	Estimated Chart Date: 04/17/2025	APWS Task ID: 7F18D209C0EA40228E4F1841B5CEA85F	APWS Project ID: 23F35FAB7F5B42598FBEFBCB3CCC8251		
Procedure: Enroute: YES			Specialist: Damron, Todd		Agreement Number:		
Airport ID: KOAK			Airport City: OAKLAND		State: CA		
Facility ID: Facility Type: Flight Inspection Remark Type:							

New FC Slot

Procedure Comments: PROCEDURE REDESIGNED PER PBN.

POC: ALLAN WILL (AJV-A423), 405-954-6103

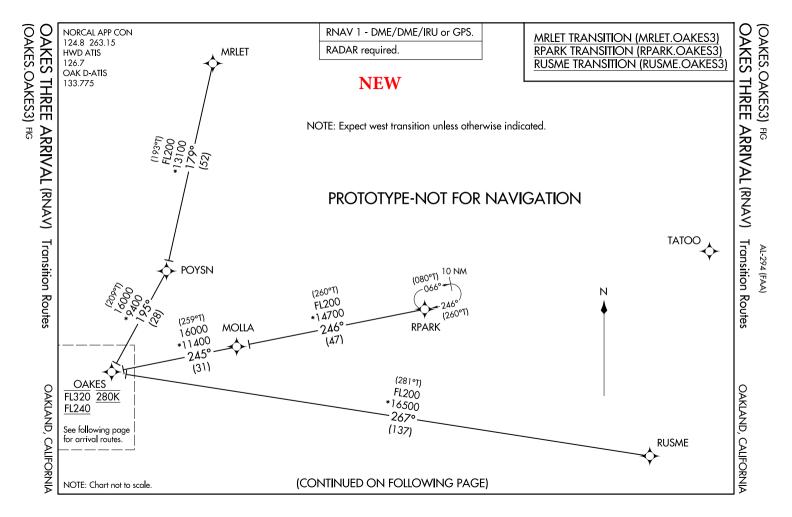


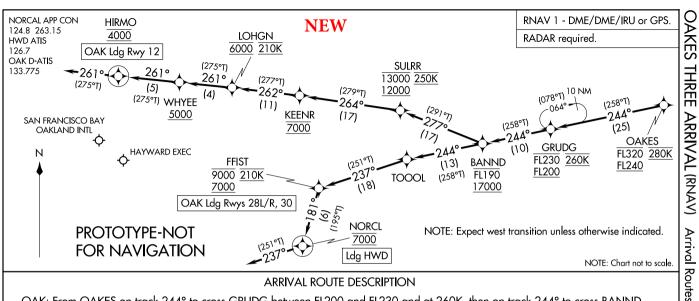
12/19/2024

ONALITA 14 CHECKED

ESV Details

Originating Office (PBN)	Airspace [Docket Numl	Request Type :Establish								
				Facility	y Data						
Chart Name:MINA	4	L	Ident:M\								
Type/Class: TACA	AN	Frequency	y: M1185		Reference	ce Number: 2	2409617	9			
Extended Service Volume Data: (Requesting Officer)											
ESV ID	Radial 1		Radial 2		Distance)	Minimur	-		laximum Altitude	
FAA 702652 - 074	1 205		237		66		180		22	4	
Requirement: KO	AK, KHWD O	AKES STA	R MITIGATI	E CRITIC	AL DME						
Signature:Tellier Mark Routing Symbol:AJV-W24 Date:09/04/2024									te:09/04/2024		
Extended Service Volume Data: (FMO)											
ESV ID	Radial 1	Radia	Radial 2		Distance			e Maximum Altitude		Action Type	
FAA 702652 - 074	205	237	237		66		22	224		APPROVE	
Requirement/Rem FIELD STRENGT	narks: KOAK, H. PENDING	KHWD OA FLIGHT I	KES STAR NSPECT @	MITIGAT REQUIR	E CRITIC ED. DIST	CAL DMEAP T. & MIN AL	PROVE Γ	D. FREQ. P	RO	TECTION &	
Signature:HEPSE	N JOHN	Routi	ng Symbol:				D	Date:09/06/2024			
		<u> </u>	Extended S	Service V	olume D	ata: (FIFO)	<u> </u>				
ESV ID	V ID Radial 1 Radial 1		al 2	Distance	<u> </u>		Ititude Maximum Altitude			Action Type	
FAA 702652 - 205 237											
Requirement/Rem	narks:										
Signature: Routing Symbol:							D	ate:			





(OAKES.OAKES3)

AL-294 (FAA)

OAKLAND, CALIFORNIA

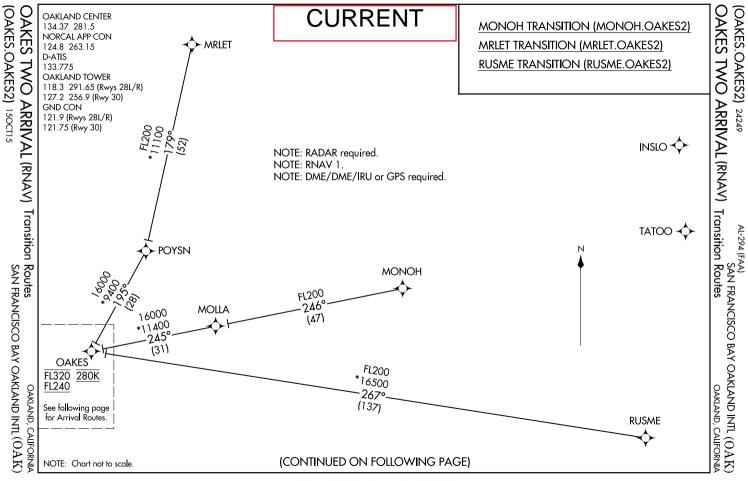
ARRIVAL ROUTE DESCRIPTION

OAK: From OAKES on track 244° to cross GRUDG between FL200 and FL230 and at 260K, then on track 244° to cross BANND between 17000 and FL190.

LANDING OAK RUNWAY 12: From BANND on track 277° to cross SULRR between 12000 and 13000 and at 250K, then on track 264° to cross KEENR at 7000, then on track 262° to cross LOHGN at 6000 and at 210K, then on track 261° to cross WHYEE at or above 5000, then on track 261° to cross HIRMO at 4000, then on track 261°. Expect RNAV (RNP) Z Rwy 12 approach or RADAR vectors to final approach course.

LANDING OAK RUNWAYS 28L/R, 30: From BANND on track 244° to TOOOL, then on track 237° to cross FFIST between 7000 and 9000 and at 210K. Expect ILS or RNAV approach Rwy 28L/R, 30 approach.

LANDING HWD: From OAKES on track 244° to cross GRUDG between FL200 and FL230 and at 260K, then on track 244° to cross BANND between 17000 and FL190, then on track 244° to TOOOL, then on track 237° to cross FFIST between 7000 and 9000 and at 210K, then on track 181° to cross NORCL at 7000, then on track 237°. Expect RADAR vectors to final approach course.



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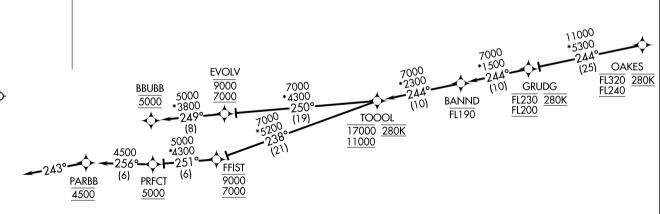
CURRENT

ARRIVAL ROUTE DESCRIPTION

From OAKES on track 244° to cross GRUDG between FL200 and FL230 and at 280K, then on track 244° to cross BANND at or below FL190

LANDING RUNWAYS 28L/R: From BANND on track 244° to cross TOOOL between 11000 and 17000 and at 280K, then on track 250° to cross EVOLV between 7000 and 9000, then on track 249° to cross BBUBB at 5000. Expect assigned instrument approach procedure.

LANDING RUNWAY 30: From BANND on track 244° to cross TOOOL between 11000 and 17000 and at 280K, then on track 238° to cross FFIST between 7000 and 9000, then on track 251° to cross PRFCT at or above 5000, then on track 256° to cross PARBB at 4500, then on track 243°. Expect assigned instrument approach procedure.



NOTE: RADAR required.

NOTE: RNAV 1.

NOTE: DME/DME/IRU or GPS required.

OAKLAND, CALIFORNIA NOTE: Chart not to scale.

OAKES.OAKES2)

JAKES

TWO

ARRIVAL (RNAV)

Arrival Routes

AL-294 (FAA)

SAN FRANCISCO BAY OAKLAND INTL (OAK)

