

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u>		<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>
GREGORY M SIMMONS MEMORIAL		KGZN	RNAV (RNP) Z RWY 18	1	CISCO	TX
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
1711	1711		ORIG	02/01/2018	4E	2020
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>		<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>		
				ROUTINE		

**TAA**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
087/30 CW 267/30	NOPT	ACTED	IF/IAF	3500
267/30 CW 357/30		ODORE	IAF	3500
357/30 CW 087/30		MAZES	IAF	4000

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
ODORE	IAF	ACTED	NOPT	TF	FB	1.00	266.64	6.10	3500
MAZES	IAF	ACTED	NOPT	TF	FB	1.00	086.52	6.10	3500
ACTED	IF/IAF	CASIG		TF	FB	1.00	176.58	6.14	3300
CASIG	PFAF	RW18		TF	FO	0.30	176.58	4.86	
RW18	MAP	2053 MSL		CA			176.58		
2053 MSL		GROFF		DF	FO	1.00	176.58	12.00	3600

**MISSED APPROACH**

**MAP:**

RNP: DA

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3600 ON TRACK 176.58 TO GROFF AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

**PROFILE:**

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD N ACTED, RT, 176.58 INBOUND, 3500 IN LIEU OF PT (IAF), MAX 6000
3. FAC: 176.58 PFAF: CASIG DIST PFAF TO MAP: DIST PFAF TO THLD: 4.86
4. MIN ALT: ACTED 3500, CASIG 3300

5. DIST TO THLD FROM PFAF: 4.86MM:IM:150 HAT:342 HAT: 0.94

6. MIN GP INCPT: 3300 GP ALT AT PFAF: 3300MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 45.1

8. MSA FROM:

PBN EQUIPMENT REQUIREMENTS NOTES:

RNP AR APCH

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -18C OR ABOVE 54C.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA.  
CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART SPEED ICON IN PLANVIEW AT ODORE: MAX 200 KIAS.  
CHART SPEED ICON IN PLANVIEW AT MAZES: MAX 200 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD S, RT 356.58 INBOUND  
NON-FAA PROCEDURE

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

CATEGORY:

FINAL TYPE	DA/MDA	A VIS	HAT/HAA	DA/MDA	B VIS	HAT/HAA	DA/MDA	C VIS	HAT/HAA	DA/MDA	D VIS	HAT/HAA	DA/MDA	E VIS	HAT/HAA
RNP 0.30 DA	2053	1 1/8	342	2053	1 1/8	342	2053	1 1/8	342		NA				


CHANGES - REASONS

INCREASED MAZES AND ODORE TO ACTED INITIAL SEGMENT LENGTHS FROM 6.00 TO 6.10 NM - REQUIRED LENGTH TO SUPPORT RADAR VECTORS.  
ADDED PLANVIEW NOTES AT MAZES AND ODORE MAX 200 KIAS UNTIL ACTED - REQUIRED FOR 6.10 NM INITIAL SEGMENT LENGTHS.  
INCREASED DA/HAT FROM 2036/326 TO 2053/342 - MISSED APPROACH ADJUSTMENT FOR 1896 TOWER (48-011915) 322204.48N/0990032.21W (2C).  
CHANGED TCH FROM 45 TO 45.1 FT - COINCIDE WITH VGSI TCH.  
ADDED RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED NOTE - 34:1 VISUAL SURFACE IS NOT CLEAR..  
DELETED GPS REQUIRED NOTE - CRITERIA REQUIRES PBN NAVSPEC REQUIREMENT NOTE: RNP AR APCH.  
INCREASED MISSED APPROACH CLEARANCE LIMIT HOLDING ALTITUDE FROM 3500 TO 3600 FT - RNAV (GPS) RWY 36 FLOOR OF CONTROLLED AIRSPACE.

UPDATED 6/28/2019 : REMOVED SUPERSEDED PROCEDURE INFORMATION - PROCEDURE IS AN ORIGINAL.  
REMOVED NOPT FIX TYPE FROM 267/30 CW 357/30 TO ODORE  
REMOVED NOPT FIX TYPE FROM 357/30 CW 087/30 TO MAZES  
REMOVED MAX 6000 FROM ADDITIONAL FLIGHT DATA HOLD.

COORDINATED WITH:

A4A

ALPA

AOPA

APA

HAI

NBAA

OTHER:

ZFW, ABI ATCT, AMGR, WILKS BROTHERS

FLIGHT CHECKED BY

CHRISTIAN F BAUR

Chris Baur

Digitally signed by Chris Baur

Date: 2019.07.02 10:03:26 -07'00'

OFFICE

HAC

DATE

09/24/2018

DEVELOPED BY

ROBERT ABBOTT

Robert Abbott

Digitally signed by Robert Abbott

Date: 2019.07.02 10:03:14 -07'00'

OFFICE

HAC

DATE

06/01/2019

APPROVED BY

CHRISTIAN F BAUR

Chris Baur

Digitally signed by Chris Baur

Date: 2019.07.02 10:03:35 -07'00'

OFFICE

HAC

DATE

07/01/2019

TITLE

PRESIDENT/CEO

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GREGORY M SIMMONS MEMORIAL	KGZN	RNAV (RNP) Z RWY 18	1	CISCO	TX	1711	

**PART A: OBSTRUCTION DATA SEGMENTS**

**TAA - STRAIGHT-IN AREA**

FROM  
087/30 CW 267/30

TO  
ACTED

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1. TOWER (48-024098)	324248.06N/0992535.02W		2478	500	50	5D	1000					3500
2. TERRAIN	323348.00N/0992739.00W		2034 (2000)								AS1500	3500

**COMPUTATIONS**

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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**SEGMENT REMARKS:**

**TAA - LEFT BASE AREA**

FROM  
267/30 CW 357/30

TO  
ODORE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3. WINDMILL (48-134793)	322123.94N/0982504.68W		2145	250	50	4D	1000				AT355	3500
4. TERRAIN	320412.44N/0985700.00W		1876 (1900)								AS1500	3400

**COMPUTATIONS**

Select from menu...	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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**SEGMENT REMARKS:**

**TAA - RIGHT BASE AREA**

FROM  
357/30 CW 087/30

TO  
MAZES

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
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<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GREGORY M SIMMONS MEMORIAL	KGZN	RNAV (RNP) Z RWY 18	1	CISCO	TX	1711	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5. TOWER (48-011248)	321632.00N/0993525.00W	2991	500	50	5D	1000					4000
6. TERRAIN	321724.00N/0993824.00W	2244 (2200)								AS1500	3700

COMPUTATIONS	ALT	CIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
Select from menu...												

SEGMENT REMARKS:

INITIAL

<u>FROM</u>	<u>TO</u>
ODORE	ACTED

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>					
1.00	6.1											
<u>OBSTRUCTION</u>		<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
7. AAO		323459.00N/0985511.00W	1789	50	20	2C	1000				AC20 AT611	3500
8. TERRAIN		323459.00N/0985511.00W	1589 (1600)								AS1500	3100

COMPUTATIONS	ALT	CIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
	6361	200	225.88	4649.66	59.59							

SEGMENT REMARKS:

INITIAL

<u>FROM</u>	<u>TO</u>
MAZES	ACTED

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	6.1										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
9. AAO	322957.00N/0990417.00W	1799	50	20	2C	1000				AC20 AT681	3500
10. TERRAIN	322957.00N/0990417.00W	1599 (1600)								AS1500	3100

COMPUTATIONS	ALT	CIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
	6361	200	225.88	4649.66	59.59							

SEGMENT REMARKS:

INTERMEDIATE: (IF/IAF)

FROM ACTED	TO CASIG										
RNP 1.00	DISTANCE 6.14	PAT	MAP	HAT		HMAS					
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11. AAO	322820.00N/0990226.00W	1939	50	20	2C	500				AC20 AT841	3300
12. TERRAIN	322820.00N/0990226.00W	1739 (1700)									3200

COMPUTATIONS

TF TURN FIX	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
	4835	200	220.63	3124.26	56.57	2.40	25.00	2.40	90.0			

SEGMENT REMARKS:

FINAL

FROM CASIG	TO RW18										
RNP 0.30	DISTANCE 4.86	PAT	MAP DA	HAT 342		HMAS 1748					
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS 21.68:1	CG	CGTA	ADJUSTMENTS MA92	MIN ALT 2053

COMPUTATIONS

Select from menu...	ALT 3300	KIAS 140	KTAS 150.87	HAA 1588.90	VKTW 30.00	TR	BA	DTA	COURSE CHANGE	DVEB 3883.54	VEB OCS 21.68:1	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

HOLD-IN-LIEU-OF-PT

FROM ACTED	TO ACTED										
RNP	DISTANCE	PAT 5	MAP	HAT		HMAS					

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GREGORY M SIMMONS MEMORIAL	KGZN	RNAV (RNP) Z RWY 18	1	CISCO	TX	1711	

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
13. AAO	322836.00N/0990257.00W	1889	50	20	2C	1000				AT611	3500
14. TERRAIN	322833.00N/0990257.00W	1689 (1700)								AS1500	3200

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
Select from menu...												

SEGMENT REMARKS:

MISSED APPROACH

FROM						TO							
DA						GROFF							
<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>		<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>					
1.00	12.00			DA		342		1748					
<u>OBSTRUCTION</u>		<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
15. TOWER (48-011915)		322204.48N/0990032.21W		1896	50	20	2C		ASC			AC20	3600
16. TOWER (48-001197)		322105.30N/0990106.25W		2026	20	3	1A	1000				AC3	3100
17. TERRAIN		321436.00N/0990209.00W		1774 (1800)									3300
<u>COMPUTATIONS</u>													
<u>Select from menu...</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>	
	2397	240	255.14	685.54	30.00								

SEGMENT REMARKS:

CIRCLING

NOT AUTHORIZED

CIRCLING REMARKS:

Select from menu...

<u>CENTER</u>		<u>RADIUS</u>									
<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
ABI APP CON

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
AWOS-3PT	KGZN	24	KGZN		Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS

WX REMARKS:

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
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APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RWY18 - MIRL, PAPI-4L (PCL)	PIR	
RWY16 - MIRL, PAPI-4L (PCL)	PIR	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	1707.2	45.1			3.00	45.1

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

☒

FT FROM THRESHOLD

DISPLACED THRESHOLD DISTANCE

472.00

ON CENTERLINE

☒

FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-18C	54C	-18C	11.61

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.

CRITICAL LOW TEMPERATURE BASED ON ACT.

DESCENT RATE (FPM): STANDARD TEMP 838 HIGH TEMP 1191.

"VISUAL PORTION OF FINAL" PENETRATIONS

RNP

20:1

34:1

18

1730 TREE (48-110546) 322233.67N/0990123.87W (1.98)



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GREGORY M SIMMONS MEMORIAL	KGZN	RNAV (RNP) Z RWY 18	1	CISCO	TX	1711	

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**PENETRATIONS REMARKS:**  
HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

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**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or  
**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

**PENETRATIONS REMARKS:**

**PART C: GENERAL REMARKS:**  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
RNP EVALUATIONS BASED ON NARROW BODY ACFT

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	2.78
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.2
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	180.58
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1700
DISTANCE FROM	THLD	TO 1500FT POINT	4.55
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.2
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	180.58
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1700
THRESHOLD COORDINATES (IF STR-IN)	322224.69N/0990124.92W		
ARP COORDINATES	322157.00N/0990125.30W		
RUNWAY APCH END AND DIST FURTHEST FROM MAP	RW18 0.54 NM		
PFAF COORDINATES	CASIG 322716.82N/0990121.43W		

FIX NAME  
COORDINATES

REMARKS  
THRESHOLD DISPLACED 472 FT. APPROACH END COORDINATES 322229.36N/0990124.87W, NO ADDITIONAL AIRSPACE REQUIRED.

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
ROBERT ABBOTT	HAC	06/01/2019	TERPS/PANS-OPS ENGINEER

Robert Abbott  
Digitally signed by Robert Abbott  
Date: 2019.06.10 15:07:20 -07'00'