

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

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 ID</u> MHT	<u>PROCEDURE NAME</u> ILS OR LOC RWY 6	<u>ORIGINAL/AMENDMENT</u> 4	<u>CITY</u> MANCHESTER	<u>STATE</u> NH
<u>AIRPORT ELEVATION</u> 266	<u>TDZE</u> 224	<u>SUPERSEDED</u> ILS OR LOC RWY 6	<u>ORIGINAL/AMENDMENT</u> 3B	<u>DATED</u> 05/16/2024
<u>FACILITY</u> I-MJE	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 15W
				<u>EPOCH YEAR</u> 2020
				<u>CANCEL/SUSPEND</u>

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>
GDM VOR/DME	IAF	PROES/GDM 12.98 DME					066.28	12.98	3100
PROES/GDM 12.98 DME		JAAZZ/GDM 25.45 DME					066.28	12.47	2800
TEETO	IAF	JAAZZ/GDM 25.45 DME		TF	FB	1.00	111.22	4.67	2800
JAAZZ/GDM 25.45 DME	IF	FITZY INT					057.42 (I-MJE)	5.32	1800

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.80 NM AFTER FITZY INT

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 700 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 087.42 AND CON VOR/DME R-154 TO KHRIS/CON 21.30 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- PROFILE STARTS AT JAAZZ/GDM 25.45 DME
- FAC:** 057.42 **FAF:** FITZY INT **DIST FAF TO MAP:** 4.80 **DIST FAF TO THLD:** 4.80
- MIN ALT:** JAAZZ/GDM 25.45 DME 2800, FITZY INT 1800
- DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:** 943
- MIN GS INCPT:** 1800 **GS ALT AT PFAF:** FITZY INT 1800 **OM:** **MM:** **IM:**
- GS ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 50.3
- MSA FROM:** CON VOR/DME 4200



PBN REQUIREMENTS NOTE:

RNP APCH-GPS. FROM TEETO.

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON GDM VOR/DME AIRWAY RADIALS 339 CW 111.
CHART SPEED ICON IN PLANVIEW AT TEETO: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 154.25 INBOUND.
FAS OBST: 591 AAO 425200N/0713242W.
CHART MANDATORY 5000 AT TEETO.

MINIMUMS:

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

ALTERNATE: NA ILS: STANDARD; LOC: STANDARD - CAT D 900-2 3/4

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
S-ILS 06	474	4000	250	474	4000	250	474	4000	250	474	4000	250			
S-LOC 06	860	5500	636	860	5500	636	860	1 3/4	636	860	1 3/4	636			
CIRCLING	900	1	634	900	1	634	940	2	674	1080	2 3/4	814			

CHANGES - REASONS

- ADDED INITIAL SEGMENT STEPDOWN FIX PROES BETWEEN GDM VOR/DME AND IF JAAZZ - TO ALLOW A LOWER IF ALTITUDE.
- CHANGED INITIAL SEGMENT GDM VOR/DME-JAAZZ DISTANCE FROM 25.45 NM TO GDM VOR/DME-PROES 12.98 NM AND PROES-JAAZZ 12.47 NM - STEPDOWN FIX PROES ADDED.
- LOWERED IF JAAZZ ALTITUDE FROM 3100 TO 2800 IN TERMINAL ROUTES AND PROFILE LINE 4 - TO ENSURE A COMPATIBLE CAPTURE FIX ALTITUDE FOR THE RNAV SEGMENT FROM IAF TEETO.
- MOVED PFAF 0.49 NM CLOSER TO RUNWAY, CHANGED NAME FROM FITZY LOM/INT TO FITSY INT, AND LOWERED PFAF ALTITUDE FROM 2100 TO 1800 IN TERMINAL ROUTES AND PROFILE LINE 4 - FITZY LOM SCHEDULED FOR DECOMMISSION, RELOCATION DUE TO ALTITUDE CHANGE ON A 3.00 DEGREE GLIDESLOPE.
- CHANGED DISTANCE OF INTERMEDIATE SEGMENT FROM 4.83 NM TO 5.32 NM IN TERMINAL ROUTES - RESULT OF PFAF RELOCATION.
- PROFILE LINE 3: CHANGED FAF FROM FITZY LOM/INT TO FITSY INT AND DIST FAF TO MAP AND TO THLD FROM 5.28 NM TO 4.80 NM.
- PROFILE LINE 5: REMOVED DIST TO THLD FROM OM INFORMATION - FITZY LOM SCHEDULED FOR DECOMMISSION.
- PROFILE LINE 6: CHANGED MIN GS INCPT FROM 2100 TO 1800 AND GS ALT AT PFAF FROM FITZY LOM/INT 2100 TO FITZY INT 1800 - DUE TO RELOCATION OF PFAF CLOSER TO RUNWAY ON THE 3.00 DEGREE GLIDESLOPE.
- PROFILE LINE 8: CHANGED MSA FROM FITZY LOM 026-206 2800, 206-026 4400 TO CON VOR/DME 4200 - FITZY LOM SCHEDULED FOR DECOMMISSION.
- CHANGED PLANVIEW NOTE "PROCEDURE NA FOR ARRIVAL ON GDM VOR/DME AIRWAY RADIALS 071 CW 111" TO "PROCEDURE NA FOR ARRIVAL ON GDM VOR/DME AIRWAY RADIALS 339 CW 111" - VICTOR AIRWAY AT RADIAL 071 WAS CANCELED. TURN AT T315-393 EXCEEDS 90 DEGREES.
- CHANGED FAS OBST FROM 660 AAO 425149N/0713309W TO 591 AAO 425200N/0713242W IN ADDITIONAL FLIGHT DATA - NEW TARGETS SOFTWARE ASSESSMENT AND SHORTENED FINAL SEGMENT.
- REMOVED NOTE "CHART CIRCLING ICON" FROM ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED BY CRITERIA.
- LOWERED S-LOC 06 MDA/HAT FROM 920/696 TO 860/636 AND REDUCED CAT C/D VISIBILITY FROM 2 SM TO 1 3/4 SM - OE-AAA OBSTACLE ASSESSMENT COMPLETED PER LOWERING PROCEDURE MINIMUMS SOP AND PER FPT REQUEST. VISIBILITY PER 8260.3G TABLE 3-3-1.
- LOWERED CAT A/B CIRCLING MDA/HAA FROM 920/654 TO 900/634, CAT C CIRCLING MDA/HAA FROM 980/714 TO 940/674, AND CAT D CIRCLING MDA/HAA FROM 1100/834 TO 1080/814 - OE-AAA OBSTACLE ASSESSMENT COMPLETED PER LOWERING PROCEDURE MINIMUMS SOP AND PER FPT REQUEST.
- CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 3000 ON HEADING 057.42 AND CON VOR/DME R-154 TO KHRIS/CON 21.30 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000" TO "CLIMB TO 700 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 087.42 AND CON VOR/DME R-154 TO KHRIS/CON 21.30 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000" - REQUESTED BY FPT/ATC AS A MORE DIRECT/EFFICIENT PATH TO CLEARANCE LIMIT.



AIRPORT ID
MHT

PROCEDURE NAME
ILS OR LOC RWY 6

ORIGINAL/AMENDMENT
4

CITY
MANCHESTER

STATE
NH

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

OTHER: ZBW, BOS APP CON, MHT ATCT, AMGR

FLIGHT CHECKED BY

Digitally signed by

MICHAEL W PENDERGRASS

CASEY D HILL

Jun 01, 2026

OFFICE

AJF

DATE

05/28/2026

DEVELOPED BY

Digitally signed by

RALPH DUMAR

CASEY D HILL

Jun 01, 2026

OFFICE

AJV-A422

DATE

01/07/2026

APPROVED BY

Digitally signed by

BEV L BORDY

CASEY D HILL

Jun 01, 2026

OFFICE

AJV-A43

DATE

TITLE

MANAGER



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

<u>AIRPORT ID</u> MHT	<u>PROCEDURE NAME</u> ILS OR LOC RWY 6	<u>AMDT NO.</u> 4	<u>CITY</u> MANCHESTER	<u>STATE</u> NH	<u>AIRPORT ELEVATION</u> 266	<u>FACILITY</u> I-MJE
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

<u>FROM</u> GDM VOR/DME	<u>TO</u> PROES/GDM 12.98 DME
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<u>RNP</u>	<u>DISTANCE</u> 12.98	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	424148.00N/0715333.00W	2031	215	8	4B	1000					3100
TERRAIN	424148.00N/0715333.00W	1830 (1800)								AS1000	2800

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:

INITIAL: STEPDOWN

<u>FROM</u> PROES/GDM 12.98 DME	<u>TO</u> JAAZZ/GDM 25.45 DME
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<u>RNP</u>	<u>DISTANCE</u> 12.47	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	424315.00N/0715024.00W	1569	215	8	4B	1000				AT231	2800
TERRAIN	424315.00N/0715024.00W	1368 (1400)								AS1000	2400

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:



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4

CITY
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AIRPORT ELEVATION
266

FACILITY
I-MJE

INITIAL

FROM
TEETO

TO
JAAZZ/GDM 25.45 DME

RNP
1.00

DISTANCE
4.67

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	424627.00N/0713818.00W	1014	215	8	4B	1000				AT786	2800
TERRAIN	424627.00N/0713821.00W	813 (800)								AS1500	2300

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
JAAZZ/GDM 25.45 DME

TO
FITZY INT

RNP

DISTANCE
5.32

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	424821.00N/0713748.00W	893	215	8	4B	500				AT407	1800
TERRAIN	424703.00N/0713457.00W	518 (500)								AS1000	1500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



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266

FACILITY
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MISSED APPROACH: ILS

FROM
DA

TO
KHRIS/CON 21.30 DME

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
285

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (33-000099)	425705.17N/0711604.36W	985	50	20	2C	1000					2000
TERRAIN	425700.00N/0711751.00W	643 (600)								AS1500	2100

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

MISSED APPROACH: LOC

FROM
4.80 NM AFTER FITZY INT

TO
KHRIS/CON 21.30 DME

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
610

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (33-000099)	425705.17N/0711604.36W	985	50	20	2C	1000					2000
TERRAIN	425700.00N/0711751.00W	643 (600)								AS1500	2100

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:



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266

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CIRCLING ALL CATS CAT A CAT B CAT C CAT D CAT E NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE	425554.00N/0712454.00W	1.30	634	586	215	8	4B	300			900
CATEGORY B											
TREE	425554.00N/0712454.00W	1.81	634	586	215	8	4B	300			900
CATEGORY C											
TREE	425406.00N/0712230.00W	2.85	674	622	215	8	4B	300			940
CATEGORY D											
AAO	425824.00N/0712136.00W	3.72	814	775	215	8	4B	300			1080

CIRCLING REMARKS:

MSA

CENTER **RADIUS**
CON VOR/DME 25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	432300.00N/0715127.00W	324	15.8	3130	215	8	4B	1000			4200

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

100-FOOT TREES USED PER EASTERN FPT.
MANDATORY ALTITUDE TEETO PER ATC REQUEST TO MATCH PUBLISHED ALTITUDE ON ROZZE RNAV STAR.
NO ALTERNATE MA DEVELOPED FOR LACK OF VIABLE NAVAIDS AND LIMITED AVAILABLE AIRSPACE.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

BOS APP CON, MHT TOWER

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	MHT	24	MHT		Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS

WX REMARKS:

24-HOUR TOWER HAS REDUNDANT ALTIMETER SOURCES. BACK-UP ALTIMETER SOURCE NOT REQUIRED.



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AIRPORT ELEVATION
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FACILITY
I-MJE

PRIMARY NAVAID
I-MJE

MONITOR POINT
MHT ATCT

HRS OPERATION
24

CAT
1

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW24 - HIRL, REIL, C/LINE, PAPI-4L	NPI-G	APPROACH, ROLL OUT
RW06 - REIL, HIRL (PCL), C/LINE, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW17 - MALSR, TDZ, C/LINE, HIRL, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW35 - ALSF-2, TDZ, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT

GLIDESLOPE ANGLE
3.00

ELEV RWY THRESHOLD
221.3

TCH
50.3

ELEV GS ANTENNA
218.8

DISTANCE FROM RWY
943

VGSI ANGLE
3.00

TCH
50.3

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD
ON CENTERLINE

FT FROM THRESHOLD
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE 442

CRITICAL TEMPERATURES

CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - FINAL FACILITY DOES NOT HAVE DME.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ORDER 8260.3 CHAPTER 2 APPLIED TO 706 AAO 425151.00N/0713312.00W.
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



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I-MJE

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	3.54
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.99
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	042.42
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	400
DISTANCE FROM	THLD	TO 1500FT POINT	8.72
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	3.92
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	042.42
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	600

THRESHOLD COORDINATES (IF STR-IN) 425545.07N/0712652.61W
ARP COORDINATES 425558.10N/0712608.70W
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 35 DISTANCE 0.96 NM
FAF COORDINATES 425212.34N/0713116.76W
FIX NAME COORDINATES IF JAAZZ 424816.57N/0713608.72W,
IAF GDM VOR/DME 423245.32N/0720329.48W

REMARKS

1000 AIRSPACE ALSO APPLIED IN GDM VOR/DME (IAF) TO JAAZZ (IF) TERMINAL ROUTE (TRUE COURSE 052.28, HIGH TERRAIN IN SEGMENT 1800, 8.00 NM WIDE)
IF JAAZZ: 424816.57N/0713608.72W, IAF GARDNER VOR/DME: 423245.32N/0720329.48W
THLD DISPLACED 442FT, ACTUAL COORDINATES: 425541.85N/0712656.62W

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
RALPH DUMAR	AJV-A422	01/07/2026	AERONAUTICAL INFORMATION SPECIALIST

