

**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</u><br>BROOKINGS RGNL | <u>AIRPORT ID</u><br>KBKX        | <u>PROCEDURE NAME</u><br>ILS OR LOC RWY 12 | <u>ORIGINAL/AMENDMENT</u><br>ORIG-C       | <u>CITY</u><br>BROOKINGS   | <u>STATE</u><br>SD   |                           |
| <u>AIRPORT ELEVATION</u><br>1648 | <u>TDZE</u><br>1621              | <u>SUPERSEDED</u><br>ILS OR LOC RWY 12     | <u>ORIGINAL/AMENDMENT</u><br>ORIG-B       | <u>DATED</u><br>12/07/2017 | <u>MAG VAR</u><br>3E | <u>EPOCH YEAR</u><br>2015 |
| <u>FACILITY</u><br>I-BKX         | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u>               | <u>REQUIRED EFFECTIVE DATE</u><br>ROUTINE | <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> |
|---------------------------|-----------------|---------------------------|-----------------|-----------------|--------------|------------|---------------|-----------------|-----------------|
| VOLGA INT/FSD 32.00 DME   |                 | CHRLZ NDB/I-BKX 7.02 DME  |                 |                 |              |            | 351.18        | 10.94           | 3600            |
| ASTOE INT/RWF 64.87 DME   |                 | CHRLZ NDB/I-BKX 7.02 DME  |                 |                 |              |            | 240.28        | 14.85           | 3600            |
| GOLDS INT/I-BKX 20.29 DME | IAF             | UTQOH INT/I-BKX 13.12 DME | NOPT            |                 |              |            | 115.51        | 7.16 (I-BKX)    | 3600            |
| UTQOH INT/I-BKX 13.12 DME | IF              | CHRLZ NDB/I-BKX 7.02 DME  | PFAF            |                 |              |            | 115.51        | 6.10 (I-BKX)    | 3600            |

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: 5.85 NM AFTER CHRLZ NDB/I-BKX 7.02 DME OR AT I-BKX 1.17 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2100 THEN CLIMBING RIGHT TURN TO 3600 DIRECT CHRLZ NDB/I-BKX 7.02 DME AND HOLD.

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

CLIMB TO 2600 ON HEADING 116 THEN CLIMBING RIGHT TURN TO 4000 ON HEADING 225 FOR RADAR VECTORS TO VOLGA INT/FSD 32.00 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

**PROFILE:**

1. PT L SIDE OF COURSE 295.51 OUTBOUND 3600 FT WITHIN 10 MILES OF BK NDB (IAF)

2.

3. FAC: 115.51 PFAF: DIST PFAF TO MAP: 5.85 DIST PFAF TO THLD: 5.85

4. MIN ALT: CHRLZ NDB/I-BKX 7.02 DME 3600, WOXOM/I-BKX 2.77 DME 2140\*

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: HAT: GS ANT: 850

6. MIN GS INCPT: 3600 GS ALT AT PFAF : OM: MM: IM:

7. GP ANGLE: 3.00 34:1: 20:1: TCH: 50.4

8. MSA FROM: BK NDB 3800

**EQUIPMENT REQUIREMENTS NOTES**



ADF REQUIRED.

NOTES:

\*2240 WHEN USING PIPESTONE ALTIMETER SETTING  
CHART NOTE: VDP NA WHEN USING PIPESTONE ALTIMETER SETTING.  
CHART NOTE: FOR INOPERATIVE ALS WHEN USING PIPESTONE ALTIMETER SETTING, INCREASE S-ILS 12 ALL CATS VISIBILITY TO 7/8 SM, AND S-LOC 12 CAT C/D VISIBILITY TO 1 ¾ SM.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 12 CATS C/D VISIBILITY TO 1 3/8 SM.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PIPESTONE ALTIMETER SETTING AND INCREASE ALL DA 81 FEET AND ALL MDA 100 FEET, INCREASE S-LOC 12 CATS C/D VISIBILITY 3/8 SM AND WOXOM FIX MINIMUMS S-LOC 12 CATS C/D VISIBILITY 5/8 SM, AND INCREASE CIRCLING CATS C/D VISIBILITY 1/4 SM.  
CHART NOTE: CIRCLING RWY 17 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
CHART IN PLANVIEW: HON R-078, 46.98 DME AT GOLDS.  
CHART VDP AT 2.14 DME\*  
DISTANCE VDP TO THLD 0.96 NM  
\* LOC ONLY  
CHART FAS OBST: 1707 TREE 441926N/0965127W.  
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S VOLGA INT/FSD 32.00 DME, RT, 340.11 INBOUND.  
HOLD NW, RT, 115.51 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☒

| CATEGORY:          | A      |     |         | B      |     |         | C      |     |         | D      |       |         | E      |     |         |
|--------------------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-------|---------|--------|-----|---------|
| FINAL TYPE         | DA/MDA | VIS | HAT/HAA | DA/MDA | VIS | HAT/HAA | DA/MDA | VIS | HAT/HAA | DA/MDA | VIS   | HAT/HAA | DA/MDA | VIS | HAT/HAA |
| S-ILS 12           | 1821   | 1/2 | 200     | 1821   | 1/2 | 200     | 1821   | 1/2 | 200     | 1821   | 1/2   | 200     |        |     |         |
| S-LOC 12           | 2140   | 1/2 | 519     | 2140   | 1/2 | 519     | 2140   | 1   | 519     | 2140   | 1     | 519     |        |     |         |
| CIRCLING           | 2140   | 1   | 492     | 2160   | 1   | 512     | 2340   | 2   | 692     | 2340   | 2 1/4 | 692     |        |     |         |
| WOXOM FIX MINIMUMS |        |     |         |        |     |         |        |     |         |        |       |         |        |     |         |
| S-LOC 12           | 1960   | 1/2 | 339     | 1960   | 1/2 | 339     | 1960   | 5/8 | 339     | 1960   | 5/8   | 339     |        |     |         |
| CIRCLING           | 2140   | 1   | 492     | 2160   | 1   | 512     | 2340   | 2   | 692     | 2340   | 2 1/4 | 692     |        |     |         |

CHANGES - REASONS

1. CHANGED CHRLZ LOM TO CHRLZ NDB IN MISSED APPROACH INSTRUCTIONS - LOM BEING DECOMMISSIONED AND MISSED APPROACH WAS NOT CHANGED IN PRIOR PUBLICATION
2. CHANGED CHART AND PLANVIEW NOTE: ADF REQUIRED TO AN EQUIPMENT REQUIREMENTS NOTE - IAW 8260-19H PARA. 8-6-8
3. CHANGED ALL REFERENCE OF MALSR TO ALS - IAW 8260-19H
4. FOR VISIBILITY CHART NOTES, CHANGED MILE TO SM - IAW 8260-19H PARA. 8-6-9

PDF EDIT - IN PROFILE LINE 1, CHANGED "BK (IAF)" TO "BK NDB (IAF)"



COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZMP, AMGR

FLIGHT CHECKED BY

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-333) MEMO, DEC 22, 2017.

DEVELOPED BY

LONNIE EVERHART (GREGORY BENNETT)

APPROVED BY

LONNIE EVERHART

Digitally signed by  
ROBERT G HAMILTON  
Apr 23, 2018

OFFICE

OFFICE

AJV-5400

OFFICE

AJV-5400

DATE

Digitally signed by  
ROBERT G HAMILTON  
Apr 23, 2018

DATE

03/21/2018

DATE

TITLE

MANAGER



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

|                                  |                           |  |                           |                          |                    |                                  |                          |
|----------------------------------|---------------------------|--|---------------------------|--------------------------|--------------------|----------------------------------|--------------------------|
| <u>AIRPORT</u><br>BROOKINGS RGNL | <u>AIRPORT ID</u><br>KBKX | <u>PROCEDURE NAME</u><br>ILS OR LOC RWY 12 | <u>AMDT NO.</u><br>ORIG-C | <u>CITY</u><br>BROOKINGS | <u>STATE</u><br>SD | <u>AIRPORT ELEVATION</u><br>1648 | <u>FACILITY</u><br>I-BKX |
|----------------------------------|---------------------------|--|---------------------------|--------------------------|--------------------|----------------------------------|--------------------------|

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROMVOLGA INT/FSD 32.00 DME

TOCHRLZ NDB/I-BKX 7.02 DME

RNP

DISTANCE10.94

PAT

MAP

HAT

HMAS

| <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.AAO              | 441418.00N/0970151.00W | 2100            | 250         | 125         | 4E        | 1000       |            |           |             | AT500              | 3600           |
| 2.TERRAIN          | 441418.00N/0970151.00W | 1900 (1900)     |             |             |           |            |            |           |             | AS1500             | 3400           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:

FEEDER

FROMASTOE INT/RWF 64.87 DME

TOCHRLZ NDB/I-BKX 7.02 DME

RNP

DISTANCE14.85

PAT

MAP

HAT

HMAS

| <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 (46-020261) | 443127.30N/0963701.85W | 2398            | 500         | 50          | 5D        | 1000       |            |           |             | AT202              | 3600           |
| 4.TERRAIN              | 442948.00N/0963936.00W | 1926 (1900)     |             |             |           |            |            |           |             |                    | 3400           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:





INTERMEDIATE

FROM

UTQOH INT/I-BKX 13.12 DME

TO

CHRLZ NDB/I-BKX 7.02 DME

RNP

DISTANCE

PAT

MAP

HAT

HMAS

6.10

| OBSTRUCTION         | COORDINATES            | ELEV MSL    | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---------------------|------------------------|-------------|------|------|----|-----|-----|----|------|-------------|---------|
| 7.TOWER (46-000103) | 442259.60N/0970037.80W | 2062        | 50   | 20   | 2C | 500 |     |    |      | AT1038      | 3600    |
| 9.TERRAIN           | 442151.00N/0970533.00W | 1857 (1900) |      |      |    |     |     |    |      |             | 3400    |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE









MISSED APPROACH ALTERNATE : LOC

FROM5.85 NM AFTER CHRLZ NDB/I-BKX 7.02 DME OR AT I-BKX 1.17 DME

TOVOLGA INT/FSD 32.00 DME

RNP

DISTANCE

PAT

MAP

HAT

HMAS

5.85 NM AFTER CHRLZ  
NDB/I-BKX 7.02 DME OR AT I-  
BKX 1.17 DME

1710

| OBSTRUCTION          | COORDINATES            | ELEV MSL    | HORZ | VERT | AC | ROC  | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|----------------------|------------------------|-------------|------|------|----|------|-----|----|------|-------------|---------|
|                      |                        |             |      |      |    |      | ASC |    |      |             | 4000    |
| 16.TOWER (46-020453) | 440916.31N/0965021.89W | 1980        | 20   | 3    | 1A | 1000 |     |    |      |             | 3000    |
| 17.TERRAIN           | 441342.00N/0965945.00W | 1802 (1800) |      |      |    |      |     |    |      | AS1500      | 3300    |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:

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           |                        |        |         |          |      |      |    |     |     |             |           |
| 18.TANK (46-000405)  | 441659.00N/0964758.00W | 1.32   | 492/492 | 1830     | 20   | 3    | 1A | 300 |     |             | 2140/2140 |
| CATEGORY B           |                        |        |         |          |      |      |    |     |     |             |           |
| 19.ANT (KBKXT000376) | 441804.63N/0964600.17W | 1.86   | 512/512 | 1842     | 20   | 10   | 1B | 300 |     |             | 2160/2160 |
| CATEGORY C           |                        |        |         |          |      |      |    |     |     |             |           |
| 20.TOWER (46-000516) | 442021.88N/0964559.31W | 2.94   | 692/692 | 2039     | 20   | 3    | 1A | 300 |     |             | 2340/2340 |
| CATEGORY D           |                        |        |         |          |      |      |    |     |     |             |           |
| 20.TOWER (46-000516) | 442021.88N/0964559.31W | 3.84   | 692/692 | 2039     | 20   | 3    | 1A | 300 |     |             | 2340/2340 |

CIRCLING REMARKS:





**FINAL APPROACH COURSE AIMING**

|                  |                                     |                    |                              |
|------------------|-------------------------------------|--------------------|------------------------------|
| RUNWAY THRESHOLD | <input checked="" type="checkbox"/> | FT FROM THRESHOLD  | DISPLACED THRESHOLD DISTANCE |
| ON CENTERLINE    | <input checked="" type="checkbox"/> | FT FROM CENTERLINE |                              |

**CRITICAL TEMPERATURES**

CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

**CRITICAL TEMPERATURE REMARKS:**

**"VISUAL PORTION OF FINAL" PENETRATIONS**

|  |                 |  |  |
|--|-----------------|--|--|
| Final Type                                       | CIRCLING RWY 17 |  |  |
| 20:1   |                 |  |  |
| 1626 RR (64-033233) 441841.55N/0964915.71W (.53) |                 |  |  |
| Final Type                                       | CIRCLING RWY 17 |  |  |
| 34:1   |                 |  |  |
| N/A  |                 |  |  |

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

and/or

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

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PDF EDIT - ELEV GS ANTENNA - ENTERED "1604.7"



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                 | 3.35   |
| WIDTH OF        | FINAL | SEGMENT AT 1000FT POINT         | 0.94   |
| TRUE COURSE OF  | FINAL | SEGMENT CONTAINING 1000FT POINT | 118.51 |
| HIGH TERRAIN IN | FINAL | SEGMENT CONTAINING 1000FT POINT | 1800   |
| DISTANCE FROM   | THLD  | TO 1500FT POINT                 | 4.91   |
| WIDTH OF        | FINAL | SEGMENT AT 1500FT POINT         | 1.28   |
| TRUE COURSE OF  | FINAL | SEGMENT CONTAINING 1500FT POINT | 118.51 |
| HIGH TERRAIN IN | FINAL | SEGMENT CONTAINING 1500FT POINT | 1800   |

THRESHOLD  
COORDINATES  
(IF STR-IN)441829.09N/0964939.02W

ARP COORDINATES441816.30N/0964908.10W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 30 DISTANCE 0.50 NM

FAF  
COORDINATES442116.27N/0965648.56W

FIX NAME  
COORDINATES

REMARKS  
NO ADDITIONAL AIRSPACE REQUIRED.



| <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> |
|----------------|-------------------|-----------------------|-----------------|-------------|--------------|--------------------------|-----------------|
| BROOKINGS RGNL | KBKX              | ILS OR LOC RWY 12     | ORIG-C          | BROOKINGS   | SD           | 1648                     | I-BKX           |

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|                                   |  |  |               |  |             |  |                                     |
|-----------------------------------|--|--|---------------|--|-------------|--|-------------------------------------|
| <b>PART E: PREPARED BY</b>        |  |  |               |  |             |  |                                     |
| <u>NAME</u>                       |  |  | <u>OFFICE</u> |  | <u>DATE</u> |  | <u>TITLE</u>                        |
| LONNIE EVERHART (GREGORY BENNETT) |  |  | AJV-5400      |  | 03/21/2018  |  | AERONAUTICAL INFORMATION SPECIALIST |

