

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
RNAV (GPS) 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 ID</u><br>ISO       | <u>PROCEDURE NAME</u><br>RNAV (GPS) RWY 5 | <u>ORIGINAL/AMENDMENT</u><br>3B       | <u>CITY</u><br>KINSTON                    | <u>STATE</u><br>NC         |
| <u>AIRPORT ELEVATION</u><br>93 | <u>TDZE</u><br>93                         | <u>SUPERSEDED</u><br>RNAV (GPS) RWY 5 | <u>ORIGINAL/AMENDMENT</u><br>3A           | <u>DATED</u><br>10/12/2017 |
| <u>FACILITY</u><br>RNAV        | <u>COORDINATES OF FACILITIES</u>          | <u>ACTUAL EFFECTIVE DATE</u>          | <u>REQUIRED EFFECTIVE DATE</u><br>ROUTINE | <u>MAG VAR</u><br>9W       |
|                                |                                           |                                       |                                           | <u>EPOCH YEAR</u><br>2000  |
|                                |                                           |                                       |                                           | <u>CANCEL/SUSPEND</u>      |

**TAA**

| <u>FROM</u>         | <u>FIX TYPE</u> | <u>TO</u>        | <u>FIX TYPE</u> | <u>ALTITUDE</u> |
|---------------------|-----------------|------------------|-----------------|-----------------|
| 1. 320/30 CW 140/30 | NOPT            | 320/19 CW 140/19 |                 | 2400            |
| 2. 320/19 CW 140/19 |                 | UHIRO            | IF/IAF          | 2100            |
| 3. 140/30 CW 320/30 |                 | 140/19 CW 320/19 |                 | 3100            |
| 4. 140/19 CW 320/19 |                 | UHIRO            | IF/IAF          | 2100            |

**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> |
|-----------------------|-----------------|-----------------------|-----------------|-----------------|--------------|------------|---------------|-----------------|-----------------|
| UHIRO                 | IF/IAF          | ZOMAV                 |                 | TF              | FB           | 0.50       | 050.02        | 4.78            | 2100            |
| ZOMAV                 | FAF             | ZATVA/2.40 NM TO RW05 |                 | TF              | FB           | 0.30       | 050.05        | 3.72            |                 |
| ZATVA/2.40 NM TO RW05 |                 | RW05                  | MAP             | TF              | FO           | 0.30       | 050.05        | 2.40            |                 |
| RW05                  | MAP             | 293 MSL               |                 | CA              |              |            | 050.05        |                 |                 |
| 293 MSL               |                 | WINTI                 |                 | DF              | FO           | 1.00       |               |                 | 2500            |

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW05

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2500 DIRECT WINTI AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

QUALITY  
13  
CHECKED

PROFILE:

|    |                                                                             |                                                   |                |            |                  |          |                   |      |          |      |         |  |  |     |  |
|----|-----------------------------------------------------------------------------|---------------------------------------------------|----------------|------------|------------------|----------|-------------------|------|----------|------|---------|--|--|-----|--|
| 1. | PT                                                                          | SIDE OF COURSE                                    | OUTBOUND       | FT WITHIN  | MILES OF         | (IAF)    |                   |      |          |      |         |  |  |     |  |
| 2. | HOLD SW UHIRO, RT, 050.02 INBOUND, 2100 FT. IN LIEU OF PT (IAF), MAX 14000. |                                                   |                |            |                  |          |                   |      |          |      |         |  |  |     |  |
| 3. | FAC:                                                                        | 050.05                                            | FAF:           | ZOMAV      | DIST FAF TO MAP: | 6.12     | DIST FAF TO THLD: | 6.12 |          |      |         |  |  |     |  |
| 4. | MIN ALT:                                                                    | UHIRO 2100, ZOMAV 2100, ZATVA/2.40 NM TO RW05 900 |                |            |                  |          |                   |      |          |      |         |  |  |     |  |
| 5. | DIST TO THLD FROM OM:                                                       |                                                   | MM:            |            | IM:              |          | 150 HAT:          |      | 200 HAT: | 0.44 | GS ANT: |  |  |     |  |
| 6. | MIN GP INCPT:                                                               | 2100                                              | GP ALT AT FAF: | ZOMAV 2100 |                  |          |                   |      | OM:      |      | MM:     |  |  | IM: |  |
| 7. | GP ANGLE:                                                                   | 3.00                                              | 34:1:          | IS CLEAR   | 20:1:            | IS CLEAR | TCH:              | 58.8 |          |      |         |  |  |     |  |
| 8. | MSA FROM:                                                                   |                                                   |                |            |                  |          |                   |      |          |      |         |  |  |     |  |

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.  
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SEYMOUR JOHNSON AFB ALTIMETER SETTING.  
CHART NOTE: \* RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA (NA WHEN USING SEYMOUR JOHNSON AFB ALTIMETER SETTING).  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SEYMOUR JOHNSON AFB ALTIMETER SETTING: INCREASE DA TO 336 FEET; INCREASE LNAV/VNAV DA TO 529 FEET AND ALL VISIBILITIES TO RVR 4000; INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D TO RVR 4500 AND CIRCLING VISIBILITY CAT D 1/4 SM.  
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500 AND LNAV CATS A AND B VISIBILITY TO RVR 5500 AND CATS C AND D TO RVR 6000.  
CHART NOTE: FOR INOPERATIVE MALSR WHEN USING SEYMOUR JOHNSON AFB ALTIMETER SETTING, INCREASE LNAV CATS A AND B VISIBILITY TO RVR 5500 AND CATS C AND D TO 1 3/8 MILE.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
HOLD NE, RT, 230.20 INBOUND.  
CHART FAS OBST: 230 TREE (37-138955) 351812N/0773902W.  
CHART VDP AT 1.03 NM TO RW05.  
WAAS CHANNEL # 82004  
REFERENCE PATH ID: W05A  
LTP HAE: -8 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

| 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 |
| LPV DA       | 293    | 2400 | 200     | 293    | 2400 | 200     | 293    | 2400  | 200     | 293    | 2400 | 200     |        |     |         |
| LNAV/VNAV DA | 486    | 3500 | 393     | 486    | 3500 | 393     | 486    | 3500  | 393     | 486    | 3500 | 393     |        |     |         |
| LNAV MDA     | 480    | 2400 | 387     | 480    | 2400 | 387     | 480    | 3500  | 387     | 480    | 3500 | 387     |        |     |         |
| CIRCLING     | 580    | 1    | 487     | 580    | 1    | 487     | 700    | 1 3/4 | 607     | 740    | 2    | 647     |        |     |         |



CHANGES - REASONS

- CHANGED LNAV/VNAV DA/HAT ALL CATS FROM 368/275 TO 486/393 AND VISIBILITY ALL CATS FROM RVR 2400 TO 3500 - NEW CONTROLLING OBSTACLE, CANCELS T NOTAM 3/0222
- INCORPORATED ALL CHANGES FROM P NOTAM 7/2200 - 8260.19I 8-3-4.C(3)
- PROFILE LINE 2: ADDED "MAX 14000" - 8260.19I 8-6-7
- PROFILE LINE 4: REMOVED ASTERISK FROM 900 - NO LONGER IN CRITERIA
- PROFILE LINE 7: ADDED "20:1: IS CLEAR" – TARGETS EVALUATION AND 8260.19I 8-6-7
- REMOVED NOTE: "DME/DME RNP-0.3 NA" - NO LONGER IN CRITERIA
- ADDED PBN/EQUIPMENT REQUIREMENT NOTE: "RNP APCH – GPS" – 8260.19I 8-6-8
- ADDED CHART NOTE: \* RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA (NA WHEN USING SEYMOUR JOHNSON AFB ALTIMETER SETTING) - 8260.19I 8-6-11
- CHANGED CHART NOTE: "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F)" TO CHART NOTE: "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C - 8260.19I 8-6-9
- CHANGED CHART NOTE: "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SEYMOUR JOHNSON AFB ALTIMETER SETTING AND INCREASE ALL DAS 43 FEET AND ALL MDAS 60 FEET. INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 2600, INCREASE LNAV CATS C AND D VISIBILITY TO RVR 4000, AND CIRCLING CAT D VISIBILITY TO 2 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SEYMOUR JOHNSON AFB ALTIMETER SETTING: INCREASE DA TO 336 FEET; INCREASE LNAV/VNAV DA TO 529 FEET AND ALL VISIBILITIES TO RVR 4000; INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D TO RVR 4500 AND CIRCLING VISIBILITY CAT D 1/4 SM"
- NOTES: REMOVED "BARO-VNAV NA WHEN USING SEYMOUR JOHNSON AFB ALTIMETER SETTING" AND "VDP NA WITH SEYMOUR JOHNSON AFB ALTIMETER SETTING" AND REPLACED WITH "BARO-VNAV AND VDP NA WHEN USING SEYMOUR JOHNSON AFB ALTIMETER SETTING" - NOW COMBINED IN ONE NOTE
- CHANGED FAS OBST IN ADDITIONAL FLIGHT DATA FROM "217 TREE 351806N/0773924W" TO "230 TREE (37-138955) 351812N/0773902W" - NEW TARGETS EVALUATION
- CHANGED "CHART VDP AT 1.03 MILES TO RW05\*" TO "CHART VDP AT 1.03 NM TO RW05" IN ADDITIONAL FLIGHT DATA - ASTERISK NO LONGER IN CRITERIA
- REMOVED "\*LNAV ONLY" IN ADDITIONAL FLIGHT DATA - NO LONGER IN CRITERIA
- REMOVED "DISTANCE TO THLD FROM 200 HATH: 0.44 NM" FROM ADDITIONAL FLIGHT DATA AND MOVED "DISTANCE TO THLD FROM 200 HAT: 0.44" TO PROFILE LINE 5 - 8260.19I 8-6-10
- CHANGED LTP HAE FROM -7.6 M TO -8.0 M IN ADDITIONAL FLIGHT DATA - NEW TARGETS RESULTS
- CRC CHANGED FROM 7E277B5 TO 61903455 - LTP/FTP LATITUDE AND LONGITUDE CHANGE FROM 351914.3300N/0773713.1400W TO 351914.3160N/0773713.1265W; LTP/FPAP ORTHOMETRIC HEIGHT CHANGED FROM +00283 TO +00280; FPAP LATITUDE AND LONGITUDE CHANGED FROM 352036.0095N/0773546.1615W TO 352040.0085N/0773541.9020W.

COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER:

ZDC, GSB APP CON, ISO ATCT, AMGR

FLIGHT CHECKED BY

JEFFREY ECKMAN

Digitally signed by  
**DAVID DANNER**  
Feb 26, 2024

OFFICE

FPO

DATE

02/22/2024

DEVELOPED BY

TIMOTHY JOHNSON

Digitally signed by  
**Timothy Johnson**  
Oct 26, 2023

OFFICE

AJV-A421

DATE

09/27/2023

APPROVED BY

JASON KRETSCHMER

Digitally signed by  
**DAVID DANNER**  
Feb 26, 2024

OFFICE

AJV-A421

DATE

01/25/2024

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

| DATA FIELD                               | DATA          |
|------------------------------------------|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KISO          |
| RUNWAY                                   | RW05          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W05A          |
| LTP/FTP LATITUDE                         | 351914.3160N  |
| LTP/FTP LONGITUDE                        | 0773713.1265W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | -00080        |
| FPAP LATITUDE                            | 352040.0085N  |
| FPAP LONGITUDE                           | 0773541.9020W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00058.8       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 0000          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 35.0          |
| CRC REMAINDER                            | 61903455      |

ADDITIONAL PATH POINT RECORD INFORMATION

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K7     |
| LTP ORTHOMETRIC HEIGHT  | +00280 |
| FPAP ORTHOMETRIC HEIGHT | +00280 |



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

| <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> |
|-------------------|-----------------------|-----------------|-------------|--------------|--------------------------|-----------------|
| ISO               | RNAV (GPS) RWY 5      | 3B              | KINSTON     | NC           | 93                       | RNAV            |

**PART A: OBSTRUCTION DATA SEGMENTS**

**STRAIGHT-IN AREA**

**FROM** 320/30 CW 140/30 **TO** 320/19 CW 140/19

| <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> |
| TOWER (37-001119)  | 352353.00N/0780806.00W | 1149            | 500         | 125         | 5E         | 1000       |            |           |             | AT251              | 2400           |
| TERRAIN            | 351030.00N/0781654.00W | 263 (300)       |             |             |            |            |            |           |             | AS1500             | 1800           |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**STRAIGHT-IN AREA**

**FROM** 320/19 CW 140/19 **TO** UHIRO

| <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> |
| TOWER (37-003186)  | 345633.59N/0775905.38W | 623             | 20          | 3           | 1A         | 1000       |            |           |             | AT477              | 2100           |
| TERRAIN            | 350000.00N/0780400.00W | 276 (300)       |             |             |            |            |            |           |             | AS1500             | 1800           |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**



STRAIGHT-IN AREA

FROM

140/30 CW 320/30

TO

140/19 CW 320/19

| <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> |
| TOWER (37-000800)  | 350616.00N/0772011.00W | 2035            | 500         | 125         | 5E        | 1000       |            |             |             |                    | 3100           |
| TERRAIN            | 353339.00N/0781212.00W | 243 (200)       |             |             |           |            |            |             |             | AS1500             | 1700           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM

140/19 CW 320/19

TO

UHIRO

| <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> |
| TOWER (37-003158)  | 351223.40N/0774945.30W | 603             | 250         | 50          | 4D        | 1000       |            |             |             | AT497              | 2100           |
| TERRAIN            | 351918.00N/0780433.00W | 233 (200)       |             |             |           |            |            |             |             | AS1500             | 1700           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM

UHIRO

TO

ZOMAV

RNP

0.50

DISTANCE

4.78

PAT

MAP

HAT

HMAS

| OBSTRUCTION | COORDINATES            | ELEV MSL  | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS  | MIN ALT |
|-------------|------------------------|-----------|------|------|----|-----|-----|----|------|--------------|---------|
| AAO         | 350945.00N/0774603.00W | 342       | 500  | 125  | 5E | 500 |     |    |      | XP1133 AC125 | 2100    |
| TERRAIN     | 350945.00N/0774603.00W | 142 (100) |      |      |    |     |     |    |      | AS1500       | 1600    |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP: RAISED TO MATCH ILS PROCEDURE TO RWY 5.

FINAL: LPV

FROM

ZOMAV

TO

RW05

RNP

0.30

DISTANCE

6.12

PAT

MAP

DA

HAT

200

HMAS

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|-------------|-------------|----------|------|------|----|-----|-----|----|------|-------------|---------|
|             |             |          |      |      |    |     | ASC |    |      |             | 293     |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM

ZOMAV

TO

RW05

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             | <u>HAT</u> |            | <u>HMAS</u> |           |             |                    |                |
|--------------------|------------------------|-----------------|-------------|-------------|------------|------------|-------------|-----------|-------------|--------------------|----------------|
| 0.30               | 6.12                   |                 | DA          |             | 393        |            |             |           |             |                    |                |
| <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> |
| TREE (37-138743)   | 351828.33N/0773758.06W | 208             | 20          | 3           | 1A         |            | 23.42:1     |           |             |                    | 486            |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

ZOMAV

TO

ZATVA/2.40 NM TO RW05

| <u>RNP</u>          | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             | <u>HAT</u> |            | <u>HMAS</u> |           |             |                    |                |
|---------------------|------------------------|-----------------|-------------|-------------|------------|------------|-------------|-----------|-------------|--------------------|----------------|
| 0.30                | 3.72                   |                 |             |             |            |            |             |           |             |                    |                |
| <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> |
| ANTENNA (37-138523) | 351657.46N/0773907.40W | 391             | 20          | 3           | 1A         | 250        |             |           |             | RA60 XL6 XP180     | 900            |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MAINTAIN CURRENT MINIMUM



FINAL: LNAV STEPDOWN

FROM

ZATVA/2.40 NM TO RW05

TO

RW05

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             | <u>HAT</u> |            | <u>HMAS</u> |           |             |                    |                |
|--------------------|------------------------|-----------------|-------------|-------------|------------|------------|-------------|-----------|-------------|--------------------|----------------|
| 0.30               | 2.40                   |                 | RW05        |             | 387        |            |             |           |             |                    |                |
| <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> |
| TREE (37-138955)   | 351812.37N/0773901.62W | 230             | 20          | 3           | 1A         | 250        |             |           |             |                    | 480            |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM

UHIRO

TO

P-6

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             | <u>HAT</u> |            | <u>HMAS</u> |           |             |                    |                |
|--------------------|------------------------|-----------------|-------------|-------------|------------|------------|-------------|-----------|-------------|--------------------|----------------|
|                    |                        | P-6             |             |             |            |            |             |           |             |                    |                |
| <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> |
| TOWER (37-003158)  | 351223.40N/0774945.30W | 603             | 250         | 50          | 4D         | 1000       |             |           |             | AT497              | 2100           |
| TERRAIN            | 350537.00N/0774430.00W | 171 (200)       |             |             |            |            |             |           |             | AS1500             | 1700           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LPV

FROM

DA

TO

WINTI

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             | <u>HAT</u> |            | <u>HMAS</u> |           |             |                    |                |
|--------------------|------------------------|-----------------|-------------|-------------|------------|------------|-------------|-----------|-------------|--------------------|----------------|
| 0.30               |                        |                 |             |             |            |            |             | 122       |             |                    |                |
| <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> |
|                    |                        |                 |             |             |            |            | ASC         |           |             |                    | 2500           |
| TOWER (37-002143)  | 352927.00N/0772556.00W | 386             | 50          | 20          | 2C         | 1000       |             |           |             |                    | 1400           |
| TERRAIN            | 352324.00N/0773227.00W | 76 (100)        |             |             |            |            |             |           |             | AS1500             | 1600           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM

DA

TO

WINTI

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             | <u>HAT</u> | <u>HMAS</u> |            |           |             |                    |                |
|--------------------|------------------------|-----------------|-------------|-------------|------------|-------------|------------|-----------|-------------|--------------------|----------------|
| 0.30               |                        |                 |             |             |            | 325         |            |           |             |                    |                |
| <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> |
|                    |                        |                 |             |             |            |             | ASC        |           |             |                    | 2500           |
| TOWER (37-002143)  | 352927.00N/0772556.00W | 386             | 50          | 20          | 2C         | 1000        |            |           |             |                    | 1400           |
| TERRAIN            | 352324.00N/0773227.00W | 76 (100)        |             |             |            |             |            |           |             | AS1500             | 1600           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH: LNAV

FROM

RW05

TO

WINTI

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             |           | <u>HAT</u> | <u>HMAS</u> |           |             |                    |                |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|-------------|-----------|-------------|--------------------|----------------|
| 0.30-1.00          |                        |                 |             |             |           |            |             |           |             |                    | 380            |
| <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> |
|                    |                        |                 |             |             |           |            | ASC         |           |             |                    | 2500           |
| TOWER (37-002143)  | 352927.00N/0772556.00W | 386             | 50          | 20          | 2C        | 1000       |             |           |             |                    | 1400           |
| TERRAIN            | 352324.00N/0773227.00W | 76 (100)        |             |             |           |            |             |           |             | AS1500             | 1600           |

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           |                        |        |     |          |      |      |    |     |     |             |         |
| ELEVATOR (37-138912) | 352100.15N/0773448.41W | 1.30   | 487 | 239      | 20   | 3    | 1A | 300 |     |             | 580     |
| CATEGORY B           |                        |        |     |          |      |      |    |     |     |             |         |
| ELEVATOR (37-138912) | 352100.15N/0773448.41W | 1.81   | 487 | 239      | 20   | 3    | 1A | 300 |     |             | 580     |
| CATEGORY C           |                        |        |     |          |      |      |    |     |     |             |         |
| ANTENNA (37-138523)  | 351657.46N/0773907.40W | 2.84   | 607 | 391      | 20   | 3    | 1A | 300 |     |             | 700     |
| CATEGORY D           |                        |        |     |          |      |      |    |     |     |             |         |
| ANTENNA (37-138523)  | 351657.46N/0773907.40W | 3.71   | 647 | 391      | 20   | 3    | 1A | 300 |     |             | 740     |

CIRCLING REMARKS:

MSA/ESA

CENTER

RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

GSB APP CON, ISO TOWER

|                           |                 |                      |                         |                 |                  |                    |
|---------------------------|-----------------|----------------------|-------------------------|-----------------|------------------|--------------------|
| <u>WX SERVICE</u>         | <u>LOCATION</u> | <u>HRS OPERATION</u> | <u>ALTIMETER SOURCE</u> | <u>DISTANCE</u> | <u>SERVICE-A</u> | <u>ADJUSTMENTS</u> |
| AWOS-3                    | ISO             | 24                   | ISO                     | 0               | Y                | 0                  |
| <u>BACK-UP WX SERVICE</u> | <u>LOCATION</u> | <u>HRS OPERATION</u> | <u>ALTIMETER SOURCE</u> | <u>DISTANCE</u> | <u>SERVICE-A</u> | <u>ADJUSTMENTS</u> |
| AWOS-3PT                  | GSB             | 24                   | GSB                     | 17.27           | Y                | 43                 |

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME  
KISO 93, KGSB 102  
RA=42.7

|                       |                      |                      |            |
|-----------------------|----------------------|----------------------|------------|
| <u>PRIMARY NAVAID</u> | <u>MONITOR POINT</u> | <u>HRS OPERATION</u> | <u>CAT</u> |
|-----------------------|----------------------|----------------------|------------|

|                                            |                        |                            |
|--------------------------------------------|------------------------|----------------------------|
| <u>APPROACH AND RUNWAY LIGHTING SYSTEM</u> | <u>RUNWAY MARKINGS</u> | <u>RUNWAY VISUAL RANGE</u> |
| RW23 - HIRL (PCL), REIL (PCL), PAPI-4L     | NPI-G                  | ROLL OUT                   |
| RW05 - MALSR (PCL), HIRL (PCL), PAPI-4L    | PIR-G                  | APPROACH                   |

|                         |                           |            |                        |                          |                   |            |
|-------------------------|---------------------------|------------|------------------------|--------------------------|-------------------|------------|
| <u>GLIDESLOPE ANGLE</u> | <u>ELEV RWY THRESHOLD</u> | <u>TCH</u> | <u>ELEV GS ANTENNA</u> | <u>DISTANCE FROM RWY</u> | <u>VGSI ANGLE</u> | <u>TCH</u> |
| 3.00                    | 91.7                      | 58.8       |                        |                          | 3.00              | 60.4       |

FINAL APPROACH COURSE AIMING

|                  |              |                    |                              |     |
|------------------|--------------|--------------------|------------------------------|-----|
| RUNWAY THRESHOLD | <div>X</div> | FT FROM THRESHOLD  | DISPLACED THRESHOLD DISTANCE | 538 |
| ON CENTERLINE    | <div>X</div> | FT FROM CENTERLINE |                              |     |

CRITICAL TEMPERATURES

|                     |                      |            |                |
|---------------------|----------------------|------------|----------------|
| <u>CRITICAL LOW</u> | <u>CRITICAL HIGH</u> | <u>ACT</u> | <u>APT ISA</u> |
| -15C                | +54C                 | -15C       | +14.82C        |

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 956 HIGH TEMP 1261.



"VISUAL PORTION OF FINAL" PENETRATIONS

PENETRATIONS REMARKS:

NO PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

THRESHOLD DISPLACED 538.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

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

100 FT VEGETATION USED PER FPO.

UNABLE TO CALCULATE AVERAGE COLD TEMPERATURE FOR THIS LOCATION DUE TO LACK OF HISTORICAL WEATHER DATA.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

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                 | 2.98   |
| WIDTH OF        | FINAL | SEGMENT AT 1000FT POINT         | 1.67   |
| TRUE COURSE OF  | FINAL | SEGMENT CONTAINING 1000FT POINT | 041.05 |
| HIGH TERRAIN IN | FINAL | SEGMENT CONTAINING 1000FT POINT | 1      |
| DISTANCE FROM   | THLD  | TO 1500FT POINT                 | 4.66   |
| WIDTH OF        | FINAL | SEGMENT AT 1500FT POINT         | 2.00   |
| TRUE COURSE OF  | FINAL | SEGMENT CONTAINING 1500FT POINT | 041.05 |
| HIGH TERRAIN IN | FINAL | SEGMENT CONTAINING 1500FT POINT | 123    |

|                                            |                                     |
|--------------------------------------------|-------------------------------------|
| THRESHOLD COORDINATES (IF STR-IN)          | 351914.32N/0773713.13W              |
| ARP COORDINATES                            | 351953.16N/0773631.79W              |
| RUNWAY APCH END AND DIST FURTHEST FROM ARP | RUNWAY 5 DISTANCE 0.95 NM           |
| FAF COORDINATES                            | 351437.16N/0774207.76W              |
| FIX NAME COORDINATES                       | IF/IAF UHIRO 351100.30N/0774557.75W |

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

THLD DISPLACED 538FT, ACTUAL COORDINATES: 351910.31N/0773717.39W



| <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> |
|---------------------|-----------------------|-----------------|---------------|--------------|-------------------------------------|-----------------|
| ISO                 | RNAV (GPS) RWY 5      | 3B              | KINSTON       | NC           | 93                                  | RNAV            |
| PART E: PREPARED BY |                       |                 |               |              |                                     |                 |
| <u>NAME</u>         |                       |                 | <u>OFFICE</u> | <u>DATE</u>  | <u>TITLE</u>                        |                 |
| TIMOTHY JOHNSON     |                       |                 | AJV-A421      | 09/27/2023   | AERONAUTICAL INFORMATION SPECIALIST |                 |

