

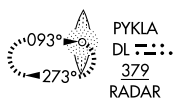
|                                  |                        |                                                                  |
|----------------------------------|------------------------|------------------------------------------------------------------|
| LOC I-DLH<br><b><u>110.3</u></b> | APP CRS<br><b>093°</b> | Rwy Ldg <b>10062</b><br>TDZE <b>1428</b><br>Apt Elev <b>1428</b> |
|----------------------------------|------------------------|------------------------------------------------------------------|

ILS or LOC RWY 9  
DULUTH INTL (DLH)

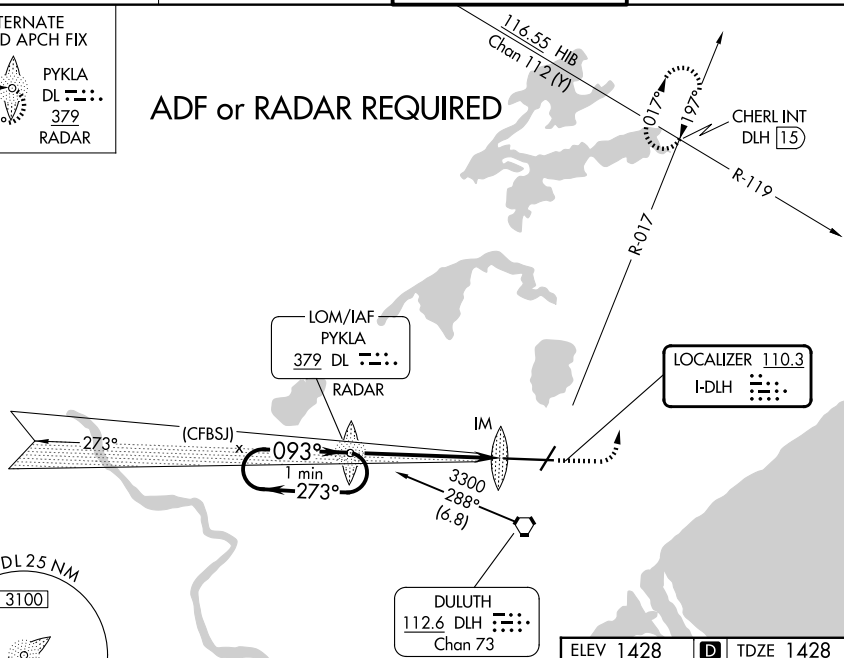
|                                                                                   |                                                                                                                                                                            |        |                                                                                   |                                                                                                                                          |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|  | Circling NA for Cat E southeast of Rwy 3-27. ADF or RADAR required. For inop ALS, increase S-ILS 9 Cat E visibility to RVR 4000 and S-LOC 9 Cat C/D/E visibility to 1½ SM. | ALSF-2 |  | MISSED APPROACH: Climb to 3000 then climbing left turn to 4500 on heading 320° and on DLH VORTAC R-017 to CHERL INT/DLH 15 DME and hold. |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

|                            |                                       |                                    |                               |
|----------------------------|---------------------------------------|------------------------------------|-------------------------------|
| ATIS<br><b>124.1 270.1</b> | DULUTH APP CON<br><b>125.45 233.7</b> | DULUTH TOWER<br><b>118.3 257.8</b> | GND CON<br><b>121.9 348.6</b> |
|----------------------------|---------------------------------------|------------------------------------|-------------------------------|

ALTERNATE  
MISSED APCH FIX



## ADF or RADAR REQUIRED



LOCALIZER 110.3  
I-DLH 

— LOM/IAF —  
PYKLA  
379 DL —::.

DULUTH  
112.6 DLH   
Chap 73

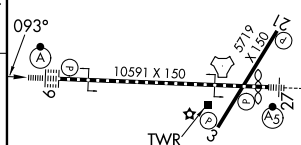
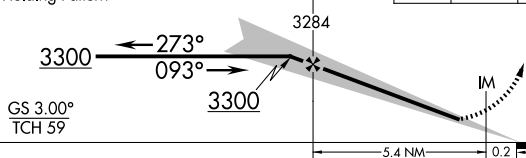
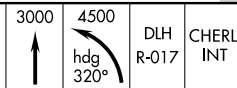
|           |          |           |
|-----------|----------|-----------|
| ELEV 1428 | <b>D</b> | TDZE 1428 |
|-----------|----------|-----------|

TDZ/CL Rwy 9  
REIL Rwy 3 and 21  
HIRL Rwy 9-27  
MIRL Rwy 3-21

VGSI and ILS glidepath not coincident  
(VGSI Angle 3.00/TCH 70).

### One Minute Holding Pattern

DL  
PYKLA LOM



| CATEGORY | A                   | B | C                       | D                   | E |
|----------|---------------------|---|-------------------------|---------------------|---|
| S-ILS 9  | 1628/18 200 (200-½) |   |                         |                     |   |
| S-LOC 9  | 1960/24 532 (600-½) |   | 1960/55 532 (600-1)     |                     |   |
| CIRCLING | 1960-1 532 (600-1)  |   | 1960-1½<br>532 (600-1½) | 2400-3 972 (1000-3) |   |

FAF to MAP 5.6 NM

|         |      |      |      |      |      |
|---------|------|------|------|------|------|
| Knots   | 60   | 90   | 120  | 150  | 180  |
| Min:Sec | 5:36 | 3:44 | 2:48 | 2:14 | 1:52 |