

NORCAL DEP CON
Rwy 7L/R 123.85 278.3
Rwy 25L/R 125.35 354.1
ATIS 119.65
GND CON 121.6
LIVERMORE TOWER★ 118.1 239.25

LINDEN
114.8 LIN Chan 95

SACRAMENTO
115.2 SAC Chan 99

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R: Climb heading 075° to 1000, then climbing left turn heading 340° and on SAC VORTAC R-177 to ALTAM, thence

TAKEOFF RUNWAYS 25L/R: Climb heading 255° to 1200, then climbing right turn heading 020° and on OAK VOR/DME R-060 to ALTAM, thence

VCOA ALL RUNWAYS: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Livermore Airport at or above 3100, thence

. . . . continue climb on course to the MEA/MCA for route of flight.

TAKEOFF MINIMUMS

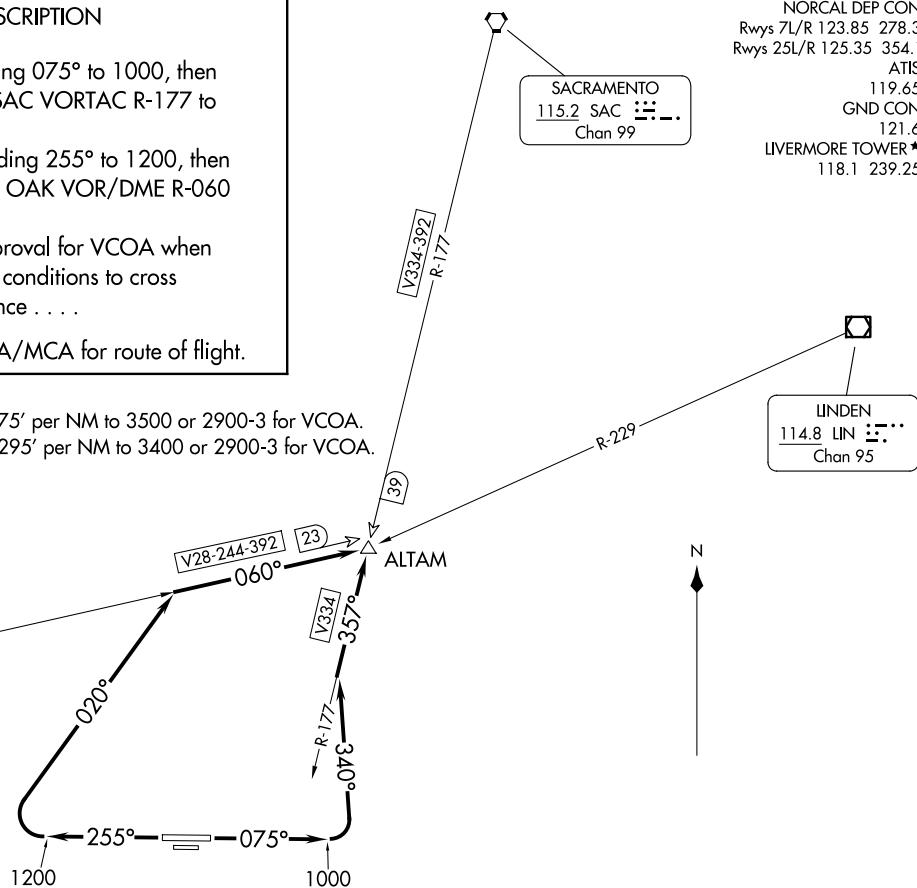
Rwys 7L/R: Standard with minimum climb of 375' per NM to 3500 or 2900-3 for VCOA.

Rwys 25L/R: Standard with minimum climb of 295' per NM to 3400 or 2900-3 for VCOA.

LIVERMORE THREE DEPARTURE (OBSTACLE)
(LVK3.ALTAM) 07DEC17

LIVERMORE MUNI (LVK)
LIVERMORE, CALIFORNIA

OAKLAND
116.8 OAK Chan 115



(CONTINUED ON FOLLOWING PAGE)

TAKEOFF OBSTACLE NOTES

Rwy 7L: Sign 20' from DER, 475' right of centerline, up to 3' AGL/403' MSL.

Bush 48' from DER, 501' left of centerline, 403' MSL.

Poles, buildings, electrical system, antenna on building, tree, and tanks beginning 447' from DER, 567' right of centerline, up to 42' AGL/445' MSL.

Hangar and building beginning 459' from DER, 558' left of centerline, up to 414' MSL.

Tree 708' from DER, 603' left of centerline, 421' MSL.

Trees beginning 711' from DER, 567' left of centerline, up to 439' MSL.

Trees beginning 1623' from DER, 690' left of centerline, up to 450' MSL.

Tree 1626' from DER, 796' left of centerline, 455' MSL.

Trees beginning 1732' from DER, 528' right of centerline, up to 461' MSL.

Tree 1767' from DER, 816' left of centerline, 463' MSL.

Tree 2217' from DER, 1040' right of centerline, 465' MSL.

Tree 2368' from DER, 1027' right of centerline, 466' MSL.

Tree 3922' from DER, 1480' left of centerline, 528' MSL.

Rwy 7R: Building 3' from DER, 287' right of centerline, 411' MSL.

Terrain 3' from DER, 9' left of centerline, 396' MSL.

Buildings beginning 29' from DER, 287' right of centerline, up to 412' MSL.

Buildings and hangar beginning 137' from DER, 287' right of centerline, up to 413' MSL.

Tower and navaid beginning 308' from DER, 249' left of centerline, up to 39' AGL/432' MSL.

Building 435' from DER, 287' right of centerline, 414' MSL.

Buildings beginning 463' from DER, 287' right of centerline, up to 416' MSL.

Building 668' from DER, 287' right of centerline, 417' MSL.

Building 701' from DER, 403' right of centerline, 418' MSL.

Buildings beginning 799' from DER, 287' right of centerline, up to 436' MSL.

Tree 1146' from DER, 399' right of centerline, 438' MSL.

Buildings and trees beginning 1169' from DER, 344' right of centerline, up to 445' MSL.

Hangar and pole beginning 1402' from DER, 66' right of centerline, up to 446' MSL.

Trees beginning 2349' from DER, 672' right of centerline, up to 467' MSL.

Tree 3980' from DER, 1563' right of centerline, 497' MSL.

Rwy 25L: Tree 388' from DER, 532' left of centerline, 442 MSL.

Rwy 25R: Sign 34' from DER, 203' right of centerline, 5' AGL/376' MSL.

Terrain beginning 43' from DER, 486' right of centerline, up to 378' MSL.

Fences beginning 169' from DER, 413' right of centerline, up to 379' MSL.

Tree 305' from DER, 298' right of centerline, 385' MSL.

Tree 349' from DER, 580' right of centerline, 411' MSL.

Tree 464' from DER, 509' right of centerline, 417' MSL.

Trees beginning 477' from DER, 426' right of centerline, up to 424' MSL.

Pole 662' from DER, 411' left of centerline, 33' AGL/400' MSL.

Trees beginning 805' from DER, 248' right of centerline, up to 427' MSL.

Trees beginning 1405' from DER, 747' right of centerline, up to 432' MSL.

Tree 1426' from DER, 186' left of centerline, 411' MSL.

Tree 1596' from DER, 244' left of centerline, 413' MSL.

Tree 1719' from DER, 127' left of centerline, 421' MSL.

Trees beginning 1946' from DER, 50' right of centerline, up to 436' MSL.